



# City of Grand Island

Tuesday, October 10, 2017

Council Session

## Item G-12

**#2017-276 - Approving Change Order No. 1 for Lift Station No. 20  
Upgrade and Force Main Rehabilitation & Lift Station No. 14  
Abandonment; Project No. 2017-S-1**

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

# **Council Agenda Memo**

**From:** Keith Kurz PE, Assistant Public Works Director

**Meeting:** October 10, 2017

**Subject:** Approving Change Order No. 1 for Lift Station No. 20 Upgrade and Force Main Rehabilitation & Lift Station No. 14 Abandonment; Project No. 2017-S-1

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

## **Background**

The Diamond Engineering Company of Grand Island, Nebraska was awarded a \$2,306,455.27 contract on March 28, 2017, via Resolution No. 2017-88, for Lift Station No. 20 Upgrade and Force Main Rehabilitation & Lift Station No. 14 Abandonment; Project No. 2017-S-1.

Currently Lift Station No. 20 pumps an average of 220,000 gallons per day. In order to accommodate future growth to handle a daily flow rate of over 1 million gallons a day, upgrades to this lift station are necessary. The existing force main from Lift Station No. 20 is also in need of replacement and or repair due to poor pipe condition. The force main has experienced multiple breaks within the past several years.

Elimination of Lift Station No. 14 and abandonment of the force main has been completed.

## **Discussion**

Manhole No. 75, which receives the Lift Station No. 20 force main is in need of immediate replacement, as it is currently leaking sewage and taking in groundwater which could cause a sinkhole. Lift Station No. 20 is the City's largest lift station accommodating sewage disposal from the west and southwest portions, including US Highway 281 & I-80 businesses. Union Pacific Railroad (UPRR) tracks are also located in close proximity to Manhole No. 75 and the structural integrity and safety of such could be comprised should a sinkhole happen.

If Manhole No. 75 were to go into complete failure all lines entering the manhole, including Lift Station No. 20, would backup and endanger public welfare.

Hydrogen Sulfide has exponentially corroded Manhole No. 75 as evidenced by the needed thickness of 4" now being 1".

In order to complete this work Change Order No. 1 is necessary, in the amount of \$97,640.79, resulting in a revised contract agreement of \$2,404,096.06 and a completion extension from March 15, 2018 to April 14, 2018.

### **Alternatives**

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

1. Move to approve
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. 1 for Lift Station No. 20 Upgrade and Force Main Rehabilitation & Lift Station No. 14 Abandonment; Project No. 2017-S-1 with The Diamond Engineering Company of Grand Island, Nebraska.

### **Sample Motion**

Move to approve the resolution.



## CHANGE ORDER NO. 1

**PROJECT:** Lift Station No. 20 Upgrade and Force Main Rehabilitation & Lift Station No. 14 Abandonment;  
Project No. 2017-S-1

**CONTRACTOR:** The Diamond Engineering Company

**AMOUNT OF CONTRACT:** \$2,306,455.27

**CONTRACT DATE:** March 29, 2017

Manhole No. 75, which receives the Lift Station No. 20 force main is in need of immediate replacement, as it is currently leaking sewage and taking in groundwater which could cause a sinkhole. Summary of Change Order No. 1 to allow for replacement is detailed below.

<i>Item No.</i>	<i>Description</i>	<i>Quantity</i>	<i>Unit</i>	<i>Unit Price</i>	<i>Total Price</i>
CO1-1	Mobilization	1.00	LS	\$ 5,488.51	\$ 5,488.51
CO1-2	Site Preparation	1.00	LS	\$13,438.35	\$13,438.35
CO1-3	Tree Removal	2.00	EA	\$ 284.46	\$ 568.92
CO1-4	Dewatering	1.00	LS	\$ 9,073.80	\$ 9,073.80
CO1-5	Bypass Pumping	1.00	LS	\$18,428.03	\$18,428.03
CO1-6	Remove Existing Sanitary Sewer Manhole	1.00	EA	\$ 2,439.45	\$ 2,439.45
CO1-7	Remove Existing 12" Sanitary Sewer Pipe (Force Main)	15.00	LF	\$ 51.75	\$ 776.25
CO1-8	Remove Existing 15" Sanitary Sewer pipe (Gravity)	20.00	LF	\$ 42.71	\$ 854.20
CO1-9	Remove Existing 24" Sanitary Sewer Pipe (Gravity)	40.00	LF	\$ 38.61	\$ 1,544.40
CO1-10	6-Foot Type III Concrete Sanitary Sewer Manhole	1.00	EA	\$ 6,597.13	\$ 6,597.13
CO1-11	Additional Manhole Depth	10.00	VF	\$ 333.04	\$ 3,330.40
CO1-12	12" DI Sanitary Sewer Force Main	15.00	LF	\$ 162.51	\$ 2,437.65
CO1-13	15" PVC (SDR 35) Sanitary Sewer Pipe	20.00	LF	\$ 145.51	\$ 2,910.20
CO1-14	24" PVC (SDR 35) Sanitary Sewer Pipe	40.00	LF	\$ 149.97	\$ 5,998.80
CO1-15	Erosion & Sedimentation Control	1.00	LS	\$ 1,982.89	\$ 1,982.89
CO1-16	Fence Removal/Replacement	50.00	LF	\$ 32.09	\$ 1,604.50
CO1-17	Restoration	1.00	LS	\$20,137.31	\$20,137.31
Correction to original contract amount (s/b \$2,306,485.27 instead of \$2,306,455.27)					\$ 30.00
<b>Change Order No. 1 Total =</b>					<b>\$97,640.79</b>

Contract Price Prior to this Change Order..... \$2,306,455.27

Net Increase Resulting from this Change Order..... \$ 97,640.79

Revised Contract Price Including this Change Order..... \$2,404,096.06

Notice to Proceed Date ----- March 30, 2017

Original Completion Date ----- March 15, 2018

**Revised Completion Date ----- April 14, 2018**

**The Above Change Order Accepted:**

The Diamond Engineering Company

By \_\_\_\_\_ Date \_\_\_\_\_

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**Approval Recommended:**

By \_\_\_\_\_ Date \_\_\_\_\_  
John Collins PE, Public Works Director/City Engineer

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**Approved for the City of Grand Island, Nebraska**

By \_\_\_\_\_ Date \_\_\_\_\_  
Mayor

Attest \_\_\_\_\_  
City Clerk

RESOLUTION 2017-276

WHEREAS, on March 28, 2017, via Resolution No.2017-88, the City of Grand Island awarded The Diamond Engineering Company of Grand Island, Nebraska the bid in the amount of \$2,306,455.27 for Lift Station No. 20 Upgrade and Force Main Rehabilitation & Lift Station No. 14 Abandonment; Project No. 2017-S-1; and

WHEREAS, it has been determined that modifications need to be made to allow for repair of Manhole No. 75, which receives the Lift Station No. 20 force main; and

WHEREAS, such modifications have been incorporated into Change Order No. 1; and

WHEREAS, the result of such modifications will increase the contract amount by \$97,640.79 for a revised contract price of \$2,404,096.06; and

WHEREAS, the project completion date will be extended from March 15, 2018 to April 14, 2018.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that the Mayor be, and hereby is, authorized and directed to execute Change Order No. 1 in the amount of \$97,640.79 between the City of Grand Island and The Diamond Engineering Company of Grand Island, Nebraska to provide the modifications.

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Adopted by the City Council of the City of Grand Island, Nebraska, October 10, 2017.

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Jeremy L. Jensen, Mayor

Attest:

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

Approved as to Form	☐ _____
December 14, 2017	☐ City Attorney