



# City of Grand Island

Tuesday, February 08, 2011

Council Session

## Item G5

**#2011-29 - Approving Change Order #1 - Water Main Project  
2009-W-6 6th Street from Pine Street to Elm Street**

Staff Contact: Gary R. Mader

# **Council Agenda Memo**

**From:** Gary R. Mader, Utilities Director

**Meeting:** February 8, 2011

**Subject:** Water Main Project 2009-W-6 – Sixth Street; from Elm Street to Pine Street – Change Order #1

**Item #'s:** G-5

**Presenter(s):** Gary R. Mader, Utilities Director

## **Background**

The project area is located in part of the Original Town of Grand Island and is designated for revitalization as defined by the Nebraska Department of Economic Development. A location site map is attached.

The construction contract, for the referenced project, was awarded to K2 Construction of Lincoln, Nebraska. The work involved replacement of the 100 year old 4” diameter water main in the project area, with a new 8” diameter ductile-iron water main and service lines. The project’s funding is being provided by the Utilities Department and a Community Development Block Grant. Grant funding for this project totals \$239,748.

The original contract amount was \$293,911.47 and needs to be modified to reflect required changes in the installation of the water line. The proposed change order would increase the amount of the contract by \$11,065.33. The new contract amount would be \$304,976.80.

## **Discussion**

Upon contract completion, the complete quantities list of the project was reviewed for both increases and decreases, with the changed amounts reflecting a net increase in the contract amount of \$11,065.33. A detailed listing of quantity changes is attached.

Connecting the new water main into the existing water lines in the 6<sup>th</sup> and Pine Streets intersection is where most of the changes occurred. The encountered configuration and size of the existing piping was not as reflected in historical records. The scope and difficulty in installing the new main, and the abandonment of the 100 year old main,

resulted in additional fittings and restraints needing to be used. There was also increased work associated with the paving removal and replacement. The existing brick road surface was laid on top of 12" of concrete. This resulted in additional removal and replacement quantities.

### **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**

Utility Engineering staff has reviewed all changes and recommends that the Council approve Change Order #1 in the amount of \$11,065.33, which would make the new contract amount \$304,976.80.

### **Sample Motion**

Move to approve Change Order #1 to the contract for Water Main Project 2009-W-6 with K-2 Construction.







Water Mian Project 2009-W-6

Contractor: K2 Construction

Final Quantities - 1/27/11

6th Street water main replacement from Elm St. to Pine St.

Item	Description	Quant. Est.	Unit	Bid Unit \$	Bid Total \$	Quant. Placed	Unit	Total \$ Placed	\$ \$ Difference
1.01	12" d.i. pipe (s.j.)	18.50	l.f.	53.92	997.52	17.40	l.f.	\$938.21	(\$59.31)
1.02	8" d.i. pipe (r.j.) - trenchless installation	1,641.00	l.f.	49.87	81,836.67	1,580.60	l.f.	\$78,824.52	(\$3,012.15)
1.03	8" d.i. pipe (s.j.)	90.50	l.f.	35.30	3,194.65	152.20	l.f.	\$5,372.66	\$2,178.01
1.04	6" d.i. pipe (s.j.)	31.30	l.f.	31.77	994.40	31.37	l.f.	\$996.62	\$2.22
1.05	12"x8" m.j. wye	2.00	ea.	441.49	882.98	2.00	ea.	\$882.98	\$0.00
1.06	12"x8" m.j. tee	1.00	ea.	302.85	302.85	1.00	ea.	\$302.85	\$0.00
1.07	12"x6" m.j. tee	1.00	ea.	278.60	278.60	1.00	ea.	\$278.60	\$0.00
1.08	12"x8" m.j. reducer	2.00	ea.	182.54	365.08	2.00	ea.	\$365.08	\$0.00
1.09	12" retainer gland	0.00	ea.	165.00	0.00	12.00	ea.	\$1,980.00	\$1,980.00
1.10	8"x6" m.j. tee	6.00	ea.	174.27	1,045.62	6.00	ea.	\$1,045.62	\$0.00
1.11	8"x45° m.j. bend	2.00	ea.	127.01	254.02	2.00	ea.	\$254.02	\$0.00
1.12	8"x6" m.j. reducer	1.00	ea.	113.65	113.65	2.00	ea.	\$227.30	\$113.65
1.13	8" retainer gland	2.00	ea.	67.32	134.64	14.00	ea.	\$942.48	\$807.84
1.14	8" sleeve coupling	4.00	ea.	125.77	503.08	6.00	ea.	\$754.62	\$251.54
1.15	8" plug	1.00	ea.	80.53	80.53	1.00	ea.	\$80.53	\$0.00
1.16	6"x6" m.j. tee	2.00	ea.	150.97	301.94	2.00	ea.	\$301.94	\$0.00
1.17	6" retainer gland	2.00	ea.	55.77	111.54	14.00	ea.	\$780.78	\$669.24
1.18	6" sleeve coupling	3.00	ea.	107.44	322.32	5.00	ea.	\$537.20	\$214.88
1.19	12" r.s. gate valve	1.00	ea.	1,826.60	1,826.60	1.00	ea.	\$1,826.60	\$0.00
1.20	8" r.s. gate valve	2.00	ea.	1,100.61	2,201.22	2.00	ea.	\$2,201.22	\$0.00
1.21	6" r.s. gate valve	2.00	ea.	836.05	1,672.10	1.00	ea.	\$836.05	(\$836.05)
1.22	valve box	5.00	ea.	429.98	2,149.90	4.00	ea.	\$1,719.92	(\$429.98)
1.23	fire hydrant assembly	6.00	ea.	1,811.96	10,871.76	6.00	ea.	\$10,871.76	\$0.00
1.24	duc-lugs & redi-rod	3.00	ea.	220.70	662.10	12.00	ea.	\$2,648.40	\$1,986.30
1.25	thrust block	14.00	ea.	193.05	2,702.70	17.00	ea.	\$3,281.85	\$579.15
1.26	l-beam block	1.00	ea.	850.68	850.68	1.00	ea.	\$850.68	\$0.00
1.27	linestopper installation	5.00	ea.	700.00	3,500.00	5.00	ea.	\$3,500.00	\$0.00
1.28	1" copper water service complete	48.00	ea.	2,113.69	101,457.12	48.00	ea.	\$101,457.12	\$0.00
1.29	8 mil polywrap	1,781.30	l.f.	1.10	1,959.43	1,781.57	l.f.	\$1,959.73	\$0.30
1.30	remove and salvage existing water main	79.00	l.f.	14.00	1,106.00	81.00	l.f.	\$1,134.00	\$28.00
1.31	remove and salvage existing fire hydrant	3.00	ea.	350.00	1,050.00	3.00	ea.	\$1,050.00	\$0.00
1.32	remove existing roadway	390.50	s.y.	14.00	5,467.00	380.20	s.y.	\$5,322.80	(\$144.20)
1.33	replace concrete roadway	408.50	s.y.	48.12	19,657.02	400.88	s.y.	\$19,290.35	(\$366.67)
1.34	remove asph./conc. Driveway	129.40	s.y.	14.00	1,811.60	141.04	s.y.	\$1,974.56	\$162.96
1.35	replace asph./conc. Driveway	129.40	s.y.	35.75	4,626.05	146.74	s.y.	\$5,245.96	\$619.91
1.36	remove concrete curb & gutter section	140.80	l.f.	18.50	2,604.80	127.50	l.f.	\$2,358.75	(\$246.05)
1.37	replace concrete curb & gutter section	0.00	l.f.	15.00	0.00	55.00	l.f.	\$825.00	\$825.00
1.38	6" conc. Integral curb	140.30	l.f.	22.05	3,093.62	90.50	l.f.	\$1,995.53	(\$1,098.09)
1.39	remove, replace and regrade gravel driveway	2.00	ea.	700.00	1,400.00	3.00	ea.	\$2,100.00	\$700.00
1.40	remove concrete sidewalk	1,778.80	s.f.	1.40	2,490.32	1,571.54	s.f.	\$2,200.16	(\$290.16)
1.41	replace concrete sidewalk	2,103.50	s.f.	4.78	10,054.73	2,068.00	s.f.	\$9,885.04	(\$169.69)
1.42	remove brick sidewalk	1,105.40	s.f.	2.80	3,095.12	663.70	s.f.	\$1,858.36	(\$1,236.76)
1.43	replace brick sidewalk	780.70	s.f.	2.80	2,185.96	306.10	s.f.	\$857.08	(\$1,328.88)
1.44	saw cut	100.90	l.f.	4.17	420.75	336.60	l.f.	\$1,403.62	\$982.87
1.45	residential seeding	11,620.00	s.f.	0.54	6,274.80	19,614.00	s.f.	\$10,591.56	\$4,316.76
1.46	traffic control	1.00	l.s.	7,000.00	7,000.00	1.00	l.s.	\$7,000.00	\$0.00
<b>CONTRACT TOTAL</b>					<b>\$293,911.47</b>			<b>\$301,112.10</b>	<b>\$7,200.63</b>
<b>Additional non-contract Items</b>									
	Remove Existing Valve	0.00	ea	370.00		1.00	ea	\$370.00	\$370.00
	Extra Depth Concrete	0.00	cy	138.90		23.00	cy	\$3,194.70	\$3,194.70
	6"x11 1/4" Ell	0.00	ea	95.00		2.00	ea	\$190.00	\$190.00
	6"x45" Ell	0.00	ea	110.00		1.00	ea	\$110.00	\$110.00
								<b>\$3,864.70</b>	<b>\$3,864.70</b>
<b>Total Amount of Project</b>								<b>\$304,976.80</b>	
<b>Total Amount of Change Order 1</b>									<b>\$11,065.33</b>



CHANGE ORDER #1

TO: K2 Construction  
7701 Cornhusker Highway  
Lincoln, NE 68507

PROJECT: Water Main Project 2009-W-6  
Water Main Replacement – Sixth Street, from Elm to Pine Street

You are hereby directed to make the following change in your contract:

1. Amend the original contract price of \$293,911.47 to \$304,976.80, an increase of \$11,065.33, due to necessary addition and deletion of project materials.

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<b>Amount of Original Contract Price</b>	<b>\$ 293,911.47</b>
<b>Addition / Deletion of Project Materials (see attached)</b>	<b>11,065.33</b>
<b>Final Contract Price</b>	<b><u>\$ 304,976.80</u></b>
 <b>Change Order #1</b>	 <b><u>\$ 11,065.33</u></b>

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Approval and acceptance of this Change Order acknowledges understanding and agreement that no additional claims will be considered.

APPROVED: **CITY OF GRAND ISLAND**

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

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

Attest: \_\_\_\_\_

\_\_\_\_\_  
Approved as to Form, City Attorney

ACCEPTED: **K2 CONSTRUCTION**

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

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

RESOLUTION 2011-29

WHEREAS, K2 Construction of Lincoln, Nebraska, was awarded the contract for Water Main Project 2009-W-6, Sixth Street; from Elm Street to Pine Street, at the July 13, 2010 City Council meeting; and

WHEREAS, upon completion of the contract work, the unit quantities were totaled for both contract price reductions and contract price additions; and

WHEREAS, the adjustment of the contract unit quantities resulted in a net contract price addition of \$11,065.33; and

WHEREAS, Change Order #1 was prepared for the final construction contract adjustment, resulting in a final contract amount of \$304,976.80.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that Change Order #1 with K2 Construction of Lincoln, Nebraska resulting in an additional cost of \$11,065.33, for a final contract price of \$304,976.80, is hereby approved.

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Adopted by the City Council of the City of Grand Island, Nebraska, February 8, 2011.

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Jay Vavricek, Mayor

Attest:

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RaNae Edwards, City Clerk