



# City of Grand Island

Tuesday, September 08, 2009

Council Session

## Item G12

**#2009-217 - Approving Change Order Number 3 for Capital Avenue Widening, Street Improvement District Number 1256**

Staff Contact: Steven P. Riehle, Public Works Director

# **Council Agenda Memo**

**From:** Steven P. Riehle, Public Works Director

**Meeting:** September 8, 2009

**Subject:** Approving Change Order Number 3 for Capital Avenue Widening, Street Improvement District Number 1256

**Item #'s:** G-12

**Presenter(s):** Steven P. Riehle, Public Works Director

## **Background**

Bids were opened for the Capital Avenue widening project on March 27, 2008. The council awarded the bid on May 13, 2008 and the contract for \$3,379,328.25 was fully executed on May 20, 2008. Approximately 80% of the project is being paid for using Federal Aid Surface Transportation Program dollars.

The City Council approved Change Order Number 1 for the project on August 12, 2008 in the amount of \$351,219.24, for a revised contract price of \$3,730,547.49. Work performed under the change order involved significant sanitary sewer piping and manhole work in preparation for a future lift station upgrade.

Change Order Number 2 was approved by City Council on March 10, 2009 in the amount of \$32,077.94, which resulted in a revised contract price of \$3,762,625.43. Work performed under the change order included storm sewer, street lighting, traffic signal and water main modifications.

## **Discussion**

Change Order Number 3 involves a number of changes detailed on the attached change order. The NDOR has approved the changes as eligible for 80% reimbursement with federal funds.

## **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**

Public Works Administration recommends that the Council approve Change Order Number 3 for Capital Avenue widening project, Street Improvement District Number 1256.

### **Sample Motion**

Move to approve Change Order Number 3.

**City of Grand Island**  
**100 East 1st Street**  
**Grand Island, Nebraska 68801**

**CHANGE ORDER NUMBER 3**

**Date of Issuance:** September 8, 2009

**PROJECT:** Capital Avenue Widening, Street Improvement District 1256

**CONTRACTOR:** The Diamond Engineering Company

**CONTRACT DATE:** May 20, 2008

**Item 1**

Build reinforced concrete support pad for sanitary force main plug valves to prevent the settlement of the plug valves and reduce the vibration of the valve during operation. This change is a net increase of \$1,186.20 to the contract.

**Items 2, 3, 4**

Provide signs, barricades, flagging and millings to construct a shoo-fly on the south side of St. Patrick Avenue & Capital Avenue intersection. Also provides materials and labor to construct a temporary 2" asphalt lift over the millings for the shoo-fly. This shoo-fly is required to maintain Capital Avenue eastbound & westbound traffic at St. Patrick Avenue for storm and sanitary sewer main construction. This includes installing the required signs in correct locations, grading and placement of millings and also provides personnel as needed for flagging traffic during placement of the asphalt pavement overlay for the shoo-fly. Work item also includes removal and cleanup of all items listed. This change is a net increase of \$15,830.00 to the contract.

**Items 5, 6, 7**

Provide material, equipment, and labor to adjust/relocate existing underground sprinkler systems that are in conflict with construction for both private and City properties. The sprinkler work was not a right of way item because of the unknowns until construction began and it is more economical to have one contractor do all of the sprinkler work. This change is a net increase of \$9,392.00 to the contract.

**Item 8**

Shipping was required to overnight two (2) 12" 45° bend fittings which were needed to offset the new sanitary sewer force main pipe due to unforeseen natural gas conflicts. Quick action was required to perform the sanitary sewer force main tie in on Capital Avenue east of Webb Road to re-open Capital Avenue. Northwestern Energy has reimbursed the city for this expense. This change is a net increase of \$841.50 to the contract.

**Items 9**

This cost covers items to save the additional dewatering well at the lift station which includes providing specified pipe casing and registering the well with the State. The Wastewater Division requested this change to avoid additional expenses in the future when a new lift station is constructed. This change is a net increase of \$2,395.00 to the contract.

**Items 10, 11, 12**

Provide material and labor regarding proposed construction of a temporary access road during the closure of St. Patrick Avenue. This construction phase is for sanitary sewer extension, storm sewer, and pavement reconstruction. This change is a net increase of \$8,366.50 to the contract.

**Items 13, 14, 15, 16, 17**

Originally the disturbed areas of commercial parking lots along Capital Avenue were going to be replaced with asphalt. Also the west transition area back to original pavement section was proposed to be asphalt. These items allow for Concrete Pavement to be used in replacement. This change is a net reduction of \$19,642.10 to the contract.

**Items 18, 19, 20**

A significant quantity of non-uniform subgrade and unsuitable material was discovered below the existing pavement when removed. The existing subgrade material was deemed inadequate to support the new concrete roadway. The unsuitable material was removed and replaced with suitable borrow material. A majority of the additional subgrade preparation and overexcavation occurred between Plaza Drive to Webb Road. Some of the areas that were overexcavated required crushed concrete instead of sand to stabilize. This change is a net increase of \$108,078.50 to the contract.

**Items 21, 22, 23, 24**

These items directed the Contractor to jack the conduit under existing pavement to keep the roadway open to traffic while eliminating trenching conduit quantities. This change is a net increase of \$4,110.98 to the contract.

**Items 25, 26**

These items are for water main relocations requested by Grand Island Utilities to accommodate the new pavement section. The new tapping sleeve and valve is for relocating a fire hydrant. Water valve manholes were replaced with valve boxes provided by Grand Island Utilities. This change is net a increase of \$6,496.73 to the contract.

**Item 27, 28, 29, 30**

These items are for eliminating the relocation of two area inlets and constructing modular block retaining walls instead. Item 30 also includes additional quantity for constructing another modular block retaining wall required for shaping roadway embankment into the existing property. This change is net increase of \$225 to the contract.

The list of quantity's in Change Order No. 3 are:  
 Note: \* Contract Unit Costs

<u>Item #</u>	<u>Description</u>	<u>Qty</u>	<u>Unit</u>	<u>Bid</u>	<u>Total</u>
1	Plug Valve Concrete Support Pad	2.0	ea.	\$ 593.10	\$ 1,186.20
2	St. Patrick Intersection Shoo-Fly	1.0	l.s.	\$ 1,800.00	\$ 1,800.00
3	2" Asphaltic Concrete Pavement	122.0	ton	\$ 115.00	\$14,030.00
4	Concrete Protection Barrier	150.00	l.f.	\$ 13.50	\$ 2,025.00
5	Sprinkler Labor	120.0	hr	\$ 35.85	\$ 4,302.00
6	Sprinkler Machine	40.0	hr	\$ 102.25	\$ 4,090.00
7	Sprinkler Fittings	1.0	l.s.	\$ 1,000.00	\$ 1,000.00
8	Shipping Extra Fittings	1.0	l.s.	\$ 841.50	\$ 841.50
9	Save Dewatering Well	1.0	l.s.	\$ 2,395.00	\$ 2,395.00
10	Remove Pavement	290.0	s.y.	\$ 4.25	\$ 1,232.50
11	Concrete Barrier Protection	150.0	l.f.	\$ 13.50	\$ 2,025.00
12	6" Concrete Pavement	290.0	s.y.	\$ 24.60	\$ 7,134.00
13	8" Asphaltic Concrete Pavement	-392.4	ton	\$ 91.50	(\$35,904.60)
14	6" Asphaltic Concrete Pavement	-315.9	ton	\$ 115.00	(\$36,328.50)
15	9" P.C. Concrete Pavement	593.0	s.y.	\$ 32.00	\$18,976.00
16	6" P.C. Concrete Pavement	960.0	s.y.	\$ 24.60	\$23,616.00
17	8" Concrete Driveway	303.0	s.y.	\$ 33.00	\$ 9,999.00
18	Unsuitable Material Overexcavation	3,857.0	c.y.	\$ 16.50	\$63,640.50
19	Additional Subgrade Preparation	3,779.0	s.y.	\$ 10.00	\$37,790.00
20	Crushed Concrete Backfill	600.0	ton	\$ 11.08	\$ 6,648.00
21	2" Conduit Under Roadway	-154.0	l.f.	\$ 2.90	(\$ 446.60)
22	3" Conduit Under Roadway	-299.0	l.f.	\$ 3.70	(\$ 1,106.30)
23	2" Conduit, Jacked	154.0	l.f.	\$ 11.81	\$ 1,818.74
24	2" Conduit, Jacked	299.0	l.f.	\$ 12.86	\$ 3,845.14
25	8" Tapping Tee & Valve	1.0	ea.	\$ 4,998.17	\$ 4,998.17
26	Remove Valve Manhole	3.0	ea.	\$ 499.52	\$ 1,498.56
27	Reconstruct Area Inlet to Manhole	-2.0	ea.	\$ 2,900.00	(\$ 5,800.00)
28	Tap Existing Storm Sewer Structure	-2.0	ea.	\$ 330.00	(\$ 660.00)
29	Area Inlet	-2.0	ea.	\$ 2,200.00	(\$ 4,400.00)
30	Modular Block Retaining Wall	300.0	s.f.	\$ 36.95	\$ 11,085.00
<b>Total</b>					<b>\$141,330.31</b>

The changes result in the following adjustment to the Contract Amount:

Contract Price Prior to This Change Order .....	\$3,762,625.43
Net Increase/Decrease Resulting from this Change Order .....	\$ 141,330.31
Revised Contract Price Including this Change Order .....	<u>\$3,903,955.74</u>

**Approval Recommended:**

By \_\_\_\_\_  
Steven P. Riehle, Public Works Director

Date \_\_\_\_\_

**The Above Change Order Accepted:**

\_\_\_\_\_ The Diamond Engineering Company \_\_\_\_\_  
Contractor

By \_\_\_\_\_

Date \_\_\_\_\_

**Approved for the City of Grand Island:**

By \_\_\_\_\_  
Margaret Hornady, Mayor

Attest: \_\_\_\_\_  
RaNae Edwards, City Clerk

Date \_\_\_\_\_

RESOLUTION 2009-217

WHEREAS, on May 13, 2008, by Resolution 2008-122, the City Council of the City of Grand Island awarded The Diamond Engineering Company of Grand Island, Nebraska, the bid in the amount of \$3,379,328.25 for Street Improvement District 1256 for widening of Capital Avenue from the Moores Creek Drain to Webb Road; and

WHEREAS, on August 12, 2008, by Resolution 2008-206, the City of Grand Island approved Change Order Number 1 which resolved conflicts with new and existing sanitary sewer infrastructure in preparation for a future sanitary sewer lift station and increased the contract price by \$351,219.24; and

WHEREAS, on March 10, 2009, by Resolution 2009-48, the City of Grand Island approved Change Order Number 2 which required additional work due to the relocation of a fire hydrant, the lowering of the Grand Island Mall water main, storm sewer modifications, sanitary force main tie-in restraints, existing power line clearance requirements and sanitary sewer manhole concrete inverts and increased the contract price by \$32,077.94; and

WHEREAS, Change Order Number 3 to the Street Improvement District 1256 has been reviewed and negotiated for additional work to the contract; and

WHEREAS, the work for Change Order Number 3 is necessary to complete the Capital Avenue Widening Project, Street Improvement District 1256; and

WHEREAS, the result of Change Order Number 3 will increase the contract amount by \$88,735.01 for a revised contract price of \$3,851,360.44; and

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 Number 3 between the City of Grand Island and The Diamond Engineering Company of Grand Island, Nebraska on Street Improvement District 1256.

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Adopted by the City Council of the City of Grand Island, Nebraska, September 8, 2009.

\_\_\_\_\_  
Margaret Hornady, Mayor

Attest:

Approved as to Form    ☐ \_\_\_\_\_  
September 3, 2009      ☐ City Attorney



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RaNae Edwards, City Clerk