



# City of Grand Island

Tuesday, May 11, 2010

Council Session

## Item G8

**#2010-127 - Approving Change Order Number 4 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:** May 11, 2010

**Subject:** Approving Change Order Number 4 for Capital Avenue Widening, Street Improvement District Number 1256

**Item #'s:** G-8

**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. All of the work under Change Order Number 1 was paid for by the Wastewater Division.

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.

Change Order Number 3 was approved by City Council on September 8, 2009 in the amount of \$141,330.31. Work performed under the change order included sanitary sewer force main work, traffic control and a temporary access road for a shoo-fly on the south side of Capital Avenue at the St. Patrick Avenue intersection, adjustment & relocation of underground sprinklers, a dewatering well at the sanitary sewer lift station, water main relocations, replacement of concrete in the disturbed areas of the commercial parking lots, and suitable borrow material for the road base.

## **Discussion**

Change Order Number 4 in the amount of \$43,019.00 is brought forward for council consideration this evening. This change order involves the relocation of a temporary signal pole at the southwest corner of the Diers Avenue and Capital Avenue intersection, raising the traffic signal heads for northbound and southbound right turn lanes at US Highway 281 and Capital Avenue, replacing traffic signal heads for eastbound and westbound left turn lanes, one additional air & vacuum release manhole, additional 9" concrete pavement, and reducing the retainage.

## **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 4 for Capital Avenue widening project, Street Improvement District Number 1256.

## **Sample Motion**

Move to approve Change Order Number 4.

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

**CHANGE ORDER NUMBER 4**

**Date of Issuance:** May 11, 2010

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

**CONTRACTOR:** The Diamond Engineering Company

**CONTRACT DATE:** May 20, 2008

**Item 1 – Relocate Temporary Signal Pole**

Relocate temporary signal pole on the southwest corner of Diers Avenue and Capital Avenue. The pole had to be relocated for construction phasing and utility relocations in the quadrant. This item included re-stringing the wire for the signal heads, re-adjusting the signal heads, and traffic control to complete the work. The agreed unit price for the temporary signal pole relocation is \$3,225.00. The NDOR 2008/2009 average unit price for Relocating Combination Mast Arm Signal and Lighting Pole was \$4,750. This is a similar item requiring a little additional work for wiring and foundation construction compared to temporary signal pole relocation. This item is eligible for 80% reimbursement of federal funds pending NDOR approval.

**Item 2 – Raise Traffic Signal, Type TS-1RR, T52**

Raise the US Highway 281 northbound and southbound right turn lane traffic signal heads on US Highway 281 at Capital Avenue. By raising the signal heads, northbound and southbound right turning traffic will have an improved line of sight for the signal head for the new right turn lanes. This was a safety concern with eastbound and westbound trucks stopped at the intersection obscuring the view of the signal head. The agreed unit price of \$1,050.00 is believed fair and reasonable based on the work involved that included removing the signal head, boom truck usage to raise signal head, re-pulling new wire, and traffic control. This item is eligible for 80% reimbursement of federal funds pending NDOR approval.

**Item 3 – Traffic Signal, Type TS-1L, T37 (Material Only)**

Remove two (2) Type TS-1LL, T51B traffic signals and replace with two (2) Type TS-1L, T37 traffic signals at Capital Avenue and US Highway 281. The replacement signal heads are for protected only left turns for eastbound and westbound traffic since the left turn lanes are offset and sight distance is limited. The City retained the T51B traffic signal heads in their possession. This cost is for the actual cost of the signal head replacement supplies. The price is material costs only, in the amount of \$1,437.00 and was based on invoices. This item is not eligible for federal reimbursement, as the City kept the T51B signal heads.

**Item 4 – Air & Vacuum Release Manhole**

An additional air & vacuum release manhole was required to perpetuate an existing storm sewer pipe serving the Grand Island Mall area. Perpetuating existing storm sewer accommodated construction phasing and provided overflow capacity into the existing storm sewer system, which connects detention cells along the corridor. This is an overrun of an existing item at the \$11,905 contract price and is eligible for 40% reimbursement of federal funds. The balance for this item is paid for by the Wastewater Division.

**Item 5 – 9" Concrete Pavement**

Increase 9" concrete pavement quantity by 761 square yards to replace deteriorated panels at three intersection tie-in locations. There were an additional 506 square yards at the Webb Road intersection, 173 square yards at the Diers Avenue intersection, and 92 square yards at the Carleton Avenue intersection. This is an overrun at the contract unit price of \$32.00 per square yard and is eligible for 80% reimbursement of federal funds.

**Item 6 – Reduce Retainage**

Reduce the retainage to one percent, up to a maximum of \$25,000 in accordance of Section 109.07 of the Nebraska Department of Roads Standard Specifications. The project is tentatively accepted. Over the next 30 days the quantities will be finalized, approvals will be obtained, and project close out will be completed.

The list of quantity's in Change Order No. 4 are:

<u>Item #</u>	<u>Description</u>	<u>Qty</u>	<u>Unit</u>	<u>Bid</u>	<u>Total</u>
1	Relocate Temporary Signal Pole	1.0	ea.	\$3,225.00	\$3,225.00
2	Raise Traffic Signal, Type TS-1RR, T52	2.0	ea.	\$1,050.00	\$2,100.00
3	Traffic Signal, Type TS-1L, T37 (Material Only)	2.0	ea.	\$718.50	\$1,437.00
4	Air & Vacuum Release Manhole	1.0	ea.	\$11,905.00	\$11,905.00
5	9" Concrete Pavement	761.0	s.y.	\$32.00	\$24,352.00
6	Reduce Retainage (No Contract Price Change)	-	-	-	-
<b>Total</b>					<b>\$43,019.00</b>

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

Contract Price Prior to This Change Order .....\$3,903,955.74  
Net Increase/Decrease Resulting from this Change Order .....\$ 43,019.00  
Revised Contract Price Including this Change Order .....\$3,946,974.74

**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 2010-127

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, on September 8, 2009, by Resolution 2009-217, the City of Grand Island approved Change Order Number 3 which allowed for sanitary sewer force main work, traffic control and a temporary access road for a shoo-fly on the south side of St. Patrick Ave & Capital Ave intersection, adjustment & relocation of underground sprinklers, a dewatering well at the lift station, water main relocations, replacement of concrete in the disturbed areas of the commercial parking lots, and suitable borrow material for the road base and increased the contract price by \$141,330.31; and

WHEREAS, Change Order Number 4 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 4 is necessary to complete the Capital Avenue Widening Project, Street Improvement District 1256; and

WHEREAS, the result of Change Order Number 4 will increase the contract amount by \$43,019.00 for a revised contract price of \$3,946,974.74; 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 4 between the City of Grand Island and The Diamond Engineering Company of Grand Island, Nebraska on Street Improvement District 1256.

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Approved as to Form	<input checked="" type="checkbox"/> _____
May 6, 2010	<input checked="" type="checkbox"/> City Attorney

Adopted by the City Council of the City of Grand Island, Nebraska, May 11, 2010.

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Margaret Hornady, Mayor

Attest:

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RaNae Edwards, City Clerk