



# **City of Grand Island**

**Tuesday, September 24, 2013**

**Council Session**

## **Item G-14**

**#2013-319 - Approving Change Order No. 1 for Stuhr Road –  
Bismark Road to Burlington Northern Santa Fe Railroad Paving  
Project No. 2013-P-4**

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

# **Council Agenda Memo**

**From:** Scott Griepenstroh, PW Project Manager

**Meeting:** September 24, 2013

**Subject:** Approving Change Order No. 1 for Stuhr Road –  
Bismark Road to Burlington Northern Santa Fe Railroad  
Paving Project No. 2013-P-4

**Item #'s:** G-14

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

## **Background**

Gehring Construction and Ready Mix Co., Inc. of Columbus, Nebraska was awarded a \$362,958.51 contract by the City Council on June 25, 2013 for the Stuhr Road – Bismark Road to Burlington Northern Santa Fe Railroad Crossing; Paving Project No. 2013-P-4.

## **Discussion**

Following are explanations for the items of work that are to be added by Change Order No. 1 and justifications for the agreed unit prices for the additional work.

At the south end of the project, immediately north Bismark Road, the existing asphalt roadway has small ruts in the wheelpaths. In order to provide a transition from the new concrete pavement to the existing roadway, the Contractor was directed to remove the entire width of the existing pavement by milling 3” deep for a length of 5’, then inlay in asphaltic concrete. This process provided a smoother transition from the new pavement to the existing pavement.

The item “Cold Milling (Inlay)” is being added to the contract to provide compensation for mobilizing equipment and removing the top 3” of existing pavement as directed. The agreed unit price for “Cold Milling (Inlay)” is based on equipment rental and labor costs, and is reasonable considering the small quantity of work involved.

The contract quantity of the item “Asphaltic Concrete” is being increased 2.20 Ton to reflect this change.

The original contract called for placement of bluegrass sod in the frontage at one residential property. After discussing the existing turf and the irrigation requirements with the property owner, it was decided that a drilled mixture of fescue, bluegrass and ryegrass would be more appropriate for their lawn. It was also determined that this seed mixture should be applied at the frontages of three other residential properties as well.

This work is based on the Special Provisions for “Seeding, Type Residential” from the Handicap Ramp Project No. 2013-1. The Contractor was directed to apply this item for roadside seeding at the four residential properties mentioned above.

The agreed unit price for “Seeding, Type Residential” compares favorably with the contract unit price for the same item on the Handicap Ramp Project No. 2013-1.

The contract quantity for the item “Sodding” is being reduced to zero to reflect this change.

In order to meet roadside safety guidelines, the project plans and specification required installation of new “breakaway” mailbox posts at two residential properties. If impacted by a vehicle that veered off the roadway, the “breakaway” posts are designed to prevent the mailbox and post from entering through the vehicle’s windshield, and damage to the vehicle is also reduced.

The mailbox post assemblies were based on Nebraska Department of Roads standard plans and specifications. However, the specific materials for the assemblies were not available after the contract was awarded. Engineering Division staff researched and approved an alternate design for the assemblies.

The alternate design requires a concrete foundation and more labor for assembly. The item “Mailbox Post (Revised)” is being added to provide compensation for the additional costs for installation of the alternate mailbox posts.

The agreed unit price for “Mailbox Post (Revised)” is reasonable considering the additional labor costs for assembly, the additional cost for the concrete foundations, and the small quantities involved.

The contract quantity for the item “Mailbox Post” is being reduced to zero to reflect this change.

Longitudinal joints were designed to be sawed at the centerline of the roadway and 12’ left and right of the centerline. Longitudinal joints are sawed in new concrete pavement to allow “controlled” cracks that occur due to contraction, pavement width, and differences in the base structure. As specified in the plans, 30” long reinforcing bars were placed at regularly spaced intervals along the longitudinal joints in the pavement to keep the pavement “tied” together.

The number of reinforcing bars as shown in the plans is based on a 16'-6" spacing of the transverse joints. In order to keep the lengthwise and widthwise spacing of the concrete panels similar, the spacing of the transverse joints were reduced to 12'. This change resulted in reducing the spacing of the reinforcing bars in order to achieve sufficient spacing between transverse joints. The item "Tie Bars" is being added through this change order to provide compensation to the Contractor for providing and installing an additional 310 reinforcing bars for the longitudinal joints.

The agreed unit price for "Tie Bars" is based on costs for furnishing the tie bars and the labor for installation at the reduced spacing. The agreed unit price compares favorably with the January 1, 2012 through December 31, 2013 Nebraska Department of Roads Average Unit Price for the same item.

In accordance with the plans and specifications, new pavement marking was required for advance notice of the railroad crossing. The Contractor was directed to place new pavement marking on the center of the existing asphaltic concrete roadway north of the railroad crossing. This required removal of existing pavement marking that was not on the same alignment of the new pavement marking to be placed. The item "Pavement Marking Removal" is being added through this change order to provide compensation for this work.

The agreed unit price for "Pavement Marking Removal" is based on the January 1, 2012 through December 31, 2013 Nebraska Department of Roads Average Unit Price for the same item.

## **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 the Stuhr Road – Bismark Road to Burling Northern Santa Fe Railroad, Project No. 2013-P-4.

## **Sample Motion**

Move to approve the resolution.

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

**CHANGE ORDER NUMBER 1**

**Date of Issuance:** September 24, 2013

**PROJECT:** Stuhr Road – Bismark Road to BNSF RR Project No. 2013-P-4

**CONTRACTOR:** Gehring Construction and Ready Mix Co., Inc.

**CONTRACT DATE:** June 25, 2013

	<u>Quantity</u>	<u>Unit Price</u>	<u>Total Price</u>
1. Cold Milling (Inlay)	1.00 EA	\$425.70/EA	\$425.70
2. Asphaltic Concrete	2.20 TON	\$200.00/TON	\$440.00
3. Seeding, Type Residential	15,400.00 SF	\$0.22/SF	\$3,388.00
4. Sodding	- 2,500.00 SF	\$0.50/SF	- \$1,250.00
5. Mailbox Post (Revised)	2.00 EA	\$175.00/EA	\$350.00
6. Mailbox Post	- 2.00 EA	\$100.00/EA	- \$200.00
7. Tie Bars	310.00 EA	\$3.90/EA	\$1,209.00
8. Pavement Marking Removal	555.00 LF	\$0.75/LF	\$311.35

**TOTAL OF CHANGE ORDER NO. 1**

**\$ 4,674.05**

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

Contract Price Prior to This Change Order .....\$362,958.51

Net Increase/~~Decrease~~ Resulting from this Change Order .....\$ 4,674.05

**Revised Contract Price Including this Change Order .....\$ 367,632.56**

**Approval Recommended:**

By \_\_\_\_\_  
John Collins, Public Works Director

Date \_\_\_\_\_

**The Above Change Order Accepted:**

\_\_\_\_\_  
Gehring Construction and Ready Mix Co., Inc.  
Contractor

By \_\_\_\_\_

Date \_\_\_\_\_

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

By \_\_\_\_\_  
Jay Vavricek, Mayor

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

Date \_\_\_\_\_

RESOLUTION 2013-319

WHEREAS, on June 25, 2013, by Resolution 2013-194, the City of Grand Island awarded Gehring Construction and Ready Mix Co., Inc. of Columbus, Nebraska the bid in the amount of \$362,958.51 for Stuhr Road – Bismark Road to Burlington Northern Santa Fe Railroad Crossing; Paving Project No. 2013-P-4; and

WHEREAS, it has been determined that additional work is necessary to complete such project; 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 \$4,674.05 for a revised contract price of \$367,632.56.

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 between the City of Grand Island and Gehring Construction and Ready Mix Co., Inc. of Columbus, Nebraska to provide the modifications.

- - -

Adopted by the City Council of the City of Grand Island, Nebraska, September 24, 2013.

\_\_\_\_\_  
Jay Vavricek, Mayor

Attest:

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

Approved as to Form	☐ _____
September 20, 2013	☐ City Attorney