



City of Grand Island

Tuesday, June 23, 2015

Council Session

Item G-12

**#2015-160 - Approving Change Order No. 3 for North Interceptor
Phase II; Project No. 2013-S-4**

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

Council Agenda Memo

From: Terry Brown PE, Assistant Public Works Director

Meeting: June 23, 2015

Subject: Approving Change Order No. 3 for North Interceptor Phase II;
Project No. 2013-S-4

Item #'s: G-12

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

Background

Public Works Staff in conjunction with the design engineer, Black & Veatch of Kansas City, Missouri have jointly developed multi-year replacement planning stages for the City of Grand Island's large diameter gravity sanitary sewer interceptor network. The current planned interceptor, entitled the "North Interceptor" will replace aged force main sanitary sewer, reduce or eliminate current sewer pumping station(s), provide additional capacity for existing, and enable new services to areas in and around Grand Island.

The new North Interceptor gravity sewer interceptor route was developed to incorporate and partner with other utilities for the Capital Avenue Widening Project and the new Headworks Pumping Station Project at the Wastewater Treatment Plant.

A phased approach of constructing the North Interceptor was developed as follows:

- Phase I - Wastewater Treatment Plant to 7th Street / Skypark Road (nearing final closeout)
- Phase II (Part A) - 7th Street / Skypark Road to Broadwell Avenue
- Phase II (Part B) - Broadwell Avenue to Webb Road
- Phase II (Part C) - Webb Road to Diers Avenue (Lift Station No. 19)

Phase II Part B reached substantial completion on April 15, 2015. Phase II (Part A) is underway, and a large portion of Phase II (Part C) has been completed. The lift station abandonments (Bid Sections D, E, G, H and I) will follow the completion of Phase II.

On September 9, 2014, Resolution No. 2014-284, City Council awarded, Project 2013-S-4, North Interceptor Phase II to S.J. Louis Construction, Inc. of Rockville, Minnesota, in the amount of \$21,479,537.50.

City Council approved Resolution No. 2015-39 on February 10, 2015, which established new unit prices for installed storm and sanitary sewers which are embedded with native sand material in lieu of the imported granular embedment specified in the contract documents. The potential savings is anticipated to be around \$300,000 where native sand is thought to be suitable and may be used for up to 20,795 feet of pipe.

On March 23, 2015, by Resolution No. 2015-74, City Council approved Change Order No. 2 which changed the methodology of the trenchless crossing from micro tunneling to a direct jacked tunnel using a tunnel boring machine, resulting in a decreased unit price. Two (2) locations were suggested for this change; Broadwell Avenue at Capital Avenue and Webb Road/Northwest Crossings property at Capital Avenue. An overall contract deduction of \$210,003.48 was achieved, resulting in a revised contract amount of \$21,269,534.02.

Discussion

Public Works Administration is requesting Change Order No. 3 for North Interceptor Phase II; Project No. 2013-S-4. First, Part 1 of Change Order No. 3 allows for compensation due to unknown and unplanned restraint at the existing 18" waterline that crosses Capital Avenue just east of Webb Road. Next, Part 2 of Change Order No. 3 would approve additional storm sewer work near St. Paul Road as needed to fill in a portion of the utility ditch and provide access to the new manhole. Finally, Part 3 of Change Order No. 3 finalizes the As-Built quantities for Phase II (Part B).

Even with this change, we are still \$153,462.60 below the original contract amount. Parts 1,2, and 3 of this change order result in a an increase of \$56,540.88, which results in an adjusted contract amount of \$21,326,074.90.

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. 3 with S.J. Louis Construction, Inc. of Rockville, Minnesota, for North Interceptor Phase II, Project 2013-S-4.

Sample Motion

Move to approve the resolution.

**CITY OF GRAND ISLAND, NEBRASKA
NORTH INTERCEPTOR-PHASE 2**

**CITY PROJECT 2013-S-4
BLACK & VEATCH PROJECT NO. 175144
OLSSON ASSOCIATES PROJECT NO. 011-2347**

CHANGE ORDER NO. 3

Change Order No. 3 covers items CO3-1 through CO3-4. This change order covers the costs for restraining an existing 18" water main in Capital Avenue (Bid Section B), additional storm sewer work near St. Paul Avenue (Bid Section A), and rectifies the final installed quantities for Bid Section B.

Item CO3-1. Restrain Existing 18" Waterline in Capital Avenue (Bid Section B)

Initiated by: Contractor

While exposing an existing 18" watermain at STA 256+40 in Bid Section B, SJ Louis found it to be lower and closer to Capital Avenue than originally shown on the plans. This resulted in the 45 degree bend, which was unrestrained, being exposed by the sanitary sewer trench. After contacting the City Utility Department, it was decided that no more excavation could occur until the line was properly restrained. This change covers the time and materials cost for restraining this existing waterline. Attachment 1 includes a detailed breakdown of these costs.

Item CO3-2. Additional Storm Sewer Work Near St. Paul Road (Bid Section A)

Initiated by: Owner

This change involves installing approximately 350 feet of new 84-inch diameter CMP storm sewer in the drainage ditch west of St. Paul Road, and filling the drainage ditch with fill material. The storm sewer work also includes an area inlet, a concrete collar to connect to the existing 84-inch sewer on the east end, and a new concrete head wall on the west end. This change was made to provide the City access to the new sanitary sewer manhole MH-14A.

Attachment 2 includes a figure of these changes and a cost breakdown.

Item CO3-3. Adjust MH Quantities to Accommodate Storm Sewer Work Near St. Paul Road (Bid Section A)

Initiated by: Owner

Item CO3-2 also involves changing manhole MH-14A from a cast-in-place concrete manhole to a 72-inch diameter fiberglass manhole. Table CO3-1 indicates these quantity changes to the Bid Section A Bid Form utilizing a strikethrough for deletion of the original quantity followed by the new quantity in bold font.

	Item Description	Quantity	Unit	Unit Cost	Total Cost
4	Manholes and Structures				
4.4	72-Inch Diameter Outside Drop Manhole (Sanitary Sewer, FRP)	1 2	Each		
4.10	Additional Depth, 72-Inch Diameter Standard Manhole (Sanitary Sewer, FRP); Standard and Drop	41.71 47.52	Each		
4.25	Cast-in-Place Concrete Manholes	5 4	Each		

Table CO3-2 includes the cost differentials associated with these quantity changes.

	Item Description - BID SECTION A	Bid Quantity	New Quantity	Unit	Unit Cost	Total Bid Cost	Total Constructed Cost	Differential
4	Manholes and Structures							
4.4	72-Inch Diameter Outside Drop Manhole (Sanitary Sewer, FRP)	1	2	Each	\$19,000.00	\$19,000.00	\$38,000.00	\$19,000.00
4.10	Additional Depth, 72-Inch Diameter Manhole (Sanitary Sewer, FRP); Standard and Drop	41.71	47.52	VF	\$950.00	\$39,624.50	\$45,144.00	\$5,519.50
4.25	Cast in Place Concrete Manholes	5	4	Each	\$80,000.00	\$400,000.00	\$320,000.00	-\$80,000.00
Total Differential for New Quantities on Bid Section A								-\$55,480.50

Item CO3-4. Finalize As-Built Quantities in Bid Section B

Initiated by: Not Applicable – Agreed upon installed quantities between Owner, Engineer, and Contractor

This change involves modifying the bid form for ‘as constructed’ quantities as calculated at Bid Section B completion and in accordance with what will be submitted on the final pay application. This change also extends the dates for both substantial and final completion of Bid Section B to April 15, 2015.

Table CO3-3 indicates these changes utilizing a strikethrough for deletion of the original quantity followed by the installed quantity in bold font. Only changed quantities are given in Table CO3-3. Table CO3-4 located in Attachment 3 to this change order includes the cost differentials associated with these quantity changes.

TABLE CO3-3					
MODIFICATIONS TO UNIT PRICE SCHEDULE FOR BID SECTION B					
	Item Description	Quantity	Unit	Unit Cost	Total Cost
2	Sanitary Sewer Pipe				
2.3	6-inch Sanitary Sewer	40 0	LF		
2.3_CO1	6-inch Sanitary Sewer Native Bedding	0 57	LF		
2.6	12-inch Sanitary Sewer	60 0	LF		
2.6_CO1	12-inch Sanitary Sewer Native Bedding	0 60	LF		
2.7	15-inch Sanitary Sewer	20 0	LF		
2.7_CO1	15-inch Sanitary Sewer Native Bedding	0 20	LF		
2.8	18-inch Sanitary Sewer	20 0	LF		
2.8_CO1	18-inch Sanitary Sewer Native Bedding	0 20	LF		
2.9	21-inch Sanitary Sewer	20 0	LF		
2.9_CO1	21-inch Sanitary Sewer Native Bedding	0 20	LF		
2.15	48-inch Sanitary Sewer	5000 2974	LF		
2.15_CO1	48-inch Sanitary Sewer Native Bedding	0 2106	LF		
3	Storm Sewer Pipe and Open Drainage Channels				
3.2	Remove 15-inch Reinforced Concrete Storm Sewer	30 28	LF		
3.8	Remove 48-inch Reinforced Concrete Storm Sewer	30 0	LF		
3.11	15-Inch Reinforced Concrete Storm Sewer	30 0	LF		
3.11_CO1	15-Inch Reinforced Concrete Storm Sewer Native Bedding	0 28	LF		
3.17	48-Inch Reinforced Concrete Storm Sewer	30 0	LF		
4	Manholes and Structures				
4.2	92-Inch Diameter Standard Manhole (Sanitary Sewer, FRP)	3 2	Each		
6	Roadway, Concrete Drive and Sidewalk Construction				
6.6	Remove 8-Inch Asphalt Pavement	164 255	SY		
6.8	Place 4-Inch Concrete Sidewalk	19 0	SY		
6.11	Place 6-Inch Concrete Pavement	647 0	SY		
6.13	Place 6-Inch Asphalt Pavement	5 255	SY		
6.14	Place 8-Inch Asphalt Pavement	164 0	SY		
7	Property Rehabilitation and Landscape				
7.3	Lawn Sod Application	0.16 0	Acre		
7.4	Lawn Seed and Mulch Application	11.2 0.18	Acre		

**CITY OF GRAND ISLAND, NEBRASKA
NORTH INTERCEPTOR-PHASE 2**

**CITY PROJECT 2013-S-4
BLACK & VEATCH PROJECT NO. 175144
OLSSON ASSOCIATES PROJECT NO. 011-2347**

SUMMARY

CHANGE ORDER NO. 3

The Contract Price shall be modified as follows as a result of the changes described by this modification request. Additions to the Contract Price are indicated by a “+” in front of the amount, deductions by a “-“.

<u>Effect on Contract Price</u>		Increase/Decrease In Contract Price (+/-)
<u>Item</u>	<u>Description</u>	<u>(+/-)</u>
CO3-1	Restrain Existing 18” Waterline in Capital Avenue	+\$9,935.88
CO3-2	Additional Storm Sewer Work Near St. Paul Road	+\$219,800.00
CO3-3	Adjust MH Quantities to Accommodate Storm Sewer Work Near St. Paul	-\$55,480.50
CO3-4	Finalize As-Built Quantities in Bid Section B	-\$117,714.50
NET CHANGE IN CONTRACT PRICE		+\$56,540.88
BID AMOUNT OF ORIGINAL CONTRACT		\$21,479,537.50
PREVIOUS CHANGE ORDER ADJUSTMENTS		<u>-\$210,003.48</u>
CURRENT CONTRACT AMOUNT		\$21,269,534.02
CHANGE ORDER NO. 3		+\$56,540.88
ADJUSTED CONTRACT AMOUNT		\$21,326,074.90

6/12/2015

CO3-4

Effect on Contract Time

--	Substantial Completion for Original Contract (Bid Section B)	March 1, 2015
--	Final Completion for Original Contract (Bid Section B)	March 31, 2015
--	Substantial Completion for Original Contract (Bid Sections A-C)	June 1, 2016
--	Final Completion for Original Contract (Bid Sections A-C)	June 30, 2016
--	Substantial Completion for Original Contract (Bid Sections D-I)	June 1, 2017
--	Final Completion for Original Contract (Bid Sections D-I)	June 30, 2017
CO3-1	No additional time given for Contract	
CO3-2	No additional time given for Contract	
CO3-3	No additional time given for Contract	
CO3-4	Contract Time Extension for Substantial Completion for Bid Section B, Calendar Days (Date)	45 (April 15, 2015)
CO3-4	Contract Time Extension for Final Completion for Bid Section B, Calendar Days (Date)	15 (April 15, 2015)

No additional claims shall be made for changes in Contract Time arising from these work items.

This change order includes all costs, direct, indirect, and consequential, and all changes in Contract Time arising from the work included in the items for Change Order No.3. No additional claims shall be made for changes in Contract Price or Contract Time arising from these work items.

All other provisions of the contract remain unchanged.

Agreed to this _____ day of _____, 2015

Recommended:
Black & Veatch Corporation

Approved:
City of Grand Island

By: _____

By: _____

Date: _____

Date: _____

Approved:
S.J. Louis Construction, Inc.

By: _____

Approved as to Form _____ June , 2015 City Attorney
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Date: _____

6/12/2015

CO3-5

RESOLUTION 2015-160

WHEREAS, On September 9, 2014, by Resolution No. 2014-284, City Council awarded, Project 2013-S-4, North Interceptor Phase II to S.J. Louis Construction, Inc. of Rockville, Minnesota, in the amount of \$21,479,537.50; and

WHEREAS, on February 10, 2015, by Resolution No. 2015-39, City Council approved Change Order No. 1, which established new unit prices for installed storm and sanitary sewers which are embedded with native sand material in lieu of the imported granular embedment specified in the contract documents; and

WHEREAS, on March 24, 2015, by Resolution No. 2015-74, City Council approved Change Order No. 2, which changed the methodology of the trenchless crossing from micro tunneling to a direct jacked tunnel using a tunnel boring machine at both Broadwell Avenue/Capital Avenue and Webb Road/Northwest Crossings property at Capital Avenue and resulted in a deduction of \$210,003.48, for a revised contract amount of \$21,269,534.02; and

WHEREAS, Change Order No. 3 allows for payment in order to restrain the existing 18" waterline as part of Phase II (Section B), additional storm sewer and utility ditch work near St. Paul Road, and finalization of As-Built quantities in Phase II (Section B).

WHEREAS, an overall net change of the contract amount will be an increase of \$56,540.88, which results in an adjusted contract amount of \$21,326,074.90.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that authorization to proceed with Change Order No. 3 with S.J. Louis Construction, Inc. of Rockville, Minnesota is hereby approved; and

BE IT FURTHER RESOLVED, that the Mayor is hereby authorized and directed to execute such Change Order No. 3, North Interceptor Phase II, Project 2013-S-4 on behalf of the City of Grand Island.

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Adopted by the City Council of the City of Grand Island, Nebraska, June 23, 2015.

Jeremy L. Jensen, Mayor

Attest:

RaNae Edwards, City Clerk

Approved as to Form	☐ _____
September 10, 2013	☐ City Attorney