

July 8, 2014

To: Mayor Bemrich and City Council

From: David Fierke, City Manager

Subject: 3rd Street Bridge Repair Project – Pay Estimate #3 – Sub-Final



ACTION: For vote Monday, July 14, 2014

Brief History

The N. 3rd Street Bridge was constructed in 1961. It is a fracture critical type of structure so it needs to be inspected bi-annually. Because of the type of this structure, the IDOT requires that it be inspected "at arms length". An under bridge investigation was needed to complete the bridge inspection for the N. 3rd Street Bridge and specialized equipment was needed to carry out this inspection. The Department of Transportation owns this type of equipment and was willing to lease it to us along with their operators. Calhoun-Burns & Associates also had one of their bridge engineers on-site during the inspection. Council approved this agreement on March 23rd, 2009. After the inspection, Calhoun-Burns generated a report listing items on the bridge that are in need of repair.

The original agreement for Structural Engineering Services for the North 3rd Street Bridge included the following services: Preliminary Site Investigations, Design, Detailing & Drafting, Administration, Coordination & Submittals , Paint Scratch & Asbestos Testing, Optional Decorative Handrail & Fence, Design, Detailing & Drafting. Limited Bid and Construction Phase to be negotiated upon completion of the design & plan preparation. Supplemental Agreement No. 1 included a review for the lighting on the bridge. The agreement was approved by Council on April 25, 2011.

Supplemental Agreement No. 2 was for additional services regarding plan preparation for a construction detour. The amount of deterioration to the bridge deck will not allow for one lane of traffic on the bridge during construction as originally planned. Traffic will need to be detoured during construction. The construction detour plan preparation services will be provided at a lump sum price of \$3,000.

A bid letting date of February 14, 2014 at 1:30pm and a public hearing of February 24, 2014 at 6:00pm were set by Council. The following responsive bids were received:

Contractor	Bid Amount
Cramer and Associates, Inc	\$246,578.25
Christenson Brothers, Inc	\$544,287.75

The Engineer's Estimate of Cost was \$291,255.50. Council awarded a contract to Cramer and Associates, Inc on February 24, 2014.

Supplemental Agreement No. 3 is for additional design, plan revisions, bid documents and bid phase services, and construction phase services was approved by Council on March 10, 2014. The cost for the completed services of additional design, plan revision, bid documents, and bid phase was \$15,000. The cost for construction phase services will not exceed \$40,000 without further authorization.

Analysis of Issue

Pay Estimate #3 Sub-final is now due to Cramer & Associates Inc in the amount of \$112,786.61.

Budget Impact

The project will be funded from Local Option Sales Tax. The Capital Improvement Plan included a project cost of \$300,000.

Strategic Plan Impact

Policy D.4.2: Advanced planning for all infrastructure facilities shall be supported and routinely updated. Facilities benefited by advanced planning shall include, at minimum, schools, health care, residential areas, roads, water, sewer, storm water management, parks, recreation, and greenways.

Policy D.4.1: Recognizing that infrastructure has a powerful influence on growth and development, the availability of infrastructure (along with other factors) should determine where development will occur in the city, rather than the other way around.

Impact on Existing Plans

None

Committee Review / Recommendation

This plan is consistent with all council presentation material.

Staff Conclusions / Recommendations

It is our recommendation to approve Pay Estimate #3 Sub-final and the payment to Cramer & Associates in the amount of \$112,786.61.

Alternatives

None recommended.

Implementation and Accountability

The Engineering Department and Calhoun-Burns Associates will be responsible for overseeing this project.

Signed



Tony Trotter, P.E.
City Project Engineer

Approved



David R. Fierke
City Manager

City of Fort Dodge, Iowa Bridge Repair N. 3rd Street Bridge

Payable To: CRAMER AND ASSOCIATES INC
Address: 3100 S.W. Brookside Dr.
Grimes, Iowa 50111

CB&A No. 2010244 County Webster
Date of Estimate 06/20/14 Change Order #
Estimate No. 3 Page No. 1 of 1

Quantities Paid thru 6/18/14

LINE NO	ITEM NO	ITEM	UNIT	PLAN QTY	UNIT PRICE	EXTENDED AMOUNT	QUANTITIES COMPLETED	VALUE COMPLETED	PERCENT COMPLETED	Value Completed this Estimate
1	2214-5145150	PAVEMENT SCARIFICATION	SY	117.00	\$ 25.00	\$ 2,925.00	117.00	\$ 2,925.00	100%	\$ 2,925.00
2	2303-0053500	HOT MIX ASPHALT MIXTURE (10,000,000 ESAL), SURFACE COURSE, 1/2	TON	32.00	\$ 125.00	\$ 4,000.00	14.00	\$ 1,750.00	44%	\$ 1,750.00
3	2303-0245828	ASPHALT BINDER, PG 58-28	TON	2.00	\$ 700.00	\$ 1,400.00	0.88	\$ 616.00	44%	\$ 616.00
4	2401-6745635	REMOVAL OF EXISTING HANDRAIL	LS	1.00	\$ 2,500.00	\$ 2,500.00	1.00	\$ 2,500.00	100%	\$ 2,500.00
5	2401-6750001	REMOVALS AS PER PLAN	LS	1.00	\$ 10,000.00	\$ 10,000.00	1.00	\$ 10,000.00	100%	\$ 10,000.00
6	2408-7800000	STRUCTURAL STEEL	LB	4,341.00	\$ 4.00	\$ 17,364.00	4,341.00	\$ 17,364.00	100%	\$ 17,364.00
7	2413-0698074	DECK REPAIR, CLASS A	SY	33.00	\$ 150.00	\$ 4,950.00	132.00	\$ 19,800.00	400%	\$ 1,200.00
8	2413-0698075	DECK REPAIR, CLASS B	SY	451.00	\$ 175.00	\$ 78,925.00	313.00	\$ 54,775.00	69%	\$ 19,775.00
9	2413-1200000	STEEL EXTRUSION JOINT WITH NEOPRENE	LF	60.00	\$ 225.00	\$ 13,500.00	60.00	\$ 13,500.00	100%	\$ 6,750.00
10	2413-1200100	NEOPRENE GLAND INSTALLATION AND TESTING	LF	60.00	\$ 100.00	\$ 6,000.00	60.00	\$ 6,000.00	100%	\$ 6,000.00
11	2414-6445100	STRUCTURAL STEEL PEDESTRIAN HAND RAILING, 1'-7" HEIGHT	LF	101.10	\$ 75.00	\$ 7,582.50	101.00	\$ 7,575.00	100%	\$ 7,575.00
12	2508-0804000	BRIDGE CLEANING FOR PAINTING	LS	1.00	\$ 1,000.00	\$ 1,000.00	1.00	\$ 1,000.00	100%	\$ 1,000.00
13	2508-0805000	BLAST CLEANING OF STRUCTURAL STEEL	LS	1.00	\$ 15,000.00	\$ 15,000.00	1.00	\$ 15,000.00	100%	\$ 15,000.00
14	2508-0870000	CONTAINMENT	LS	1.00	\$ 15,000.00	\$ 15,000.00	1.00	\$ 15,000.00	100%	\$ 15,000.00
15	2508-0990000	PAINT WASTE TRANSPORT AND DISPOSAL	LS	1.00	\$ 2,000.00	\$ 2,000.00	1.00	\$ 2,000.00	100%	\$ 2,000.00
16	2508-0991000	PAINTING OF STRUCTURAL STEEL	LS	1.00	\$ 8,000.00	\$ 8,000.00	1.00	\$ 8,000.00	100%	\$ 8,000.00
17	2518-6910000	SAFETY CLOSURE	EACH	4.00	\$ 150.00	\$ 600.00	4.00	\$ 600.00	100%	\$ 300.00
18	2519-1002072	FENCE, CHAIN LINK, 72 IN HEIGHT	LF	34.10	\$ 75.00	\$ 2,557.50	34.10	\$ 2,557.50	100%	\$ 2,557.50
19	2519-4200120	REMOVAL OF FENCE, CHAIN LINK	LF	10.50	\$ 25.00	\$ 262.50	10.50	\$ 262.50	100%	\$ 262.50
20	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	21.49	\$ 75.00	\$ 1,611.75	21.49	\$ 1,611.75	100%	\$ 1,611.75
21	2528-8445110	TRAFFIC CONTROL	LS	1.00	\$ 7,000.00	\$ 7,000.00	1.00	\$ 7,000.00	100%	\$ 3,500.00
22	2533-4880005	MOBILIZATION	LS	1.00	\$ 34,000.00	\$ 34,000.00	1.00	\$ 34,000.00	100%	\$ 9,350.00
23	2599-9699005	PIER ANCHOR BOLT NUT AND WASHER REPLACEMENT	EACH	16.00	\$ 650.00	\$ 10,400.00	16.00	\$ 10,400.00	100%	\$ 10,400.00
EXTRA WORK ORDERS										
8001		INSTALLATION OF EXPANSION JOINT PLATES	LS	1.0	\$ 1,360.00	\$ 1,360.00	1.00	\$ 1,360.00	100%	\$ 1,360.00
8002		INSTALLATION OF REBAR IN DECK TO REPLACE SPLICED REBAR	LB	950.0	\$ 1.20	\$ 1,140.00	950.00	\$ 1,140.00	100%	\$ 1,140.00
8003		INSTALLATION OF ADDITIONAL HAND RAILING	LF	100.0	\$ 75.00	\$ 7,500.00	100.00	\$ 7,500.00	100%	\$ 7,500.00
8004		INSTALLATION OF EXPANSION JOINT DRAINAGE SYSTEM	LS	1.0	\$ 1,050.00	\$ 1,050.00	1.00	\$ 1,050.00	100%	\$ 1,050.00
LIQUIDATED DAMAGES										
TOTAL WORK COMPLETED TO DATE							\$ 246,578.25	\$ 245,286.75	99.5%	\$ 118,722.75

PREPARED BY: *Sam Scheck* Calhoun-Burns Associates
 CHECKED BY: *[Signature]* Calhoun-Burns & Associates
 APPROVED BY: *[Signature]* CRAMER AND ASSOCIATES INC

ORIGINAL CONTRACT \$ 246,578.25
 EXTRA WORK ORDERS \$ 11,050.00
 TOTAL CONTRACT \$ 257,628.25
 TOTAL AMOUNT EARNED \$ 245,286.75
 RETAINED PERCENTAGE (5%) \$ 12,264.34
 TOTAL EARNED LESS RETAINED PERCENTAGE \$ 233,022.41
 TOTAL PREVIOUSLY APPROVED \$ 120,235.80
AMOUNT DUE THIS ESTIMATE \$ 112,786.61