

March 3, 2014

To: Mayor Bemrich and City Council

From: David Fierke, City Manager

Subject: 3rd Street Bridge Repair Project – Supplemental Agreement #3



ACTION: For vote Monday, March 10, 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.

Analysis of Issue

Supplemental Agreement No. 3 is for additional design, plan revisions, bid documents and bid phase services, and construction phase services. 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.

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 this supplemental agreement with Calhoun-Burns and Associates.

Alternatives

None recommended.

Implementation and Accountability

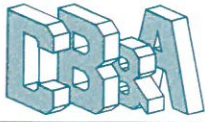
The Engineering Department and Calhoun-Burns Associates will be responsible for overseeing this project.

Signed

Approved

Chad W. Schaeffer, P.E.
City Engineer

David Fierke
City Manager



February 25, 2014

Chad Schaeffer, P.E.
Director of Engineering, Business
Affairs and Community Growth
City of Fort Dodge
819 1st Avenue South
Fort Dodge, IA 50501

**RE: SUPPLEMENTAL AGREEMENT NO. 3 – ADDITIONAL DESIGN, PLAN REVISIONS,
BID DOCUMENTS AND BID PHASE SERVICES, AND CONSTRUCTION PHASE SERVICES
NORTH 3RD STREET BRIDGE OVER SOLDIER CREEK
CITY OF FORT DODGE
CB&A PROJECT NO. 2010244**

Dear Mr. Schaeffer:

This Supplemental Agreement No. 3 for additional design, plan revisions, bid documents, and bid and construction phase services is submitted in accordance with the provisions of our Agreement for Structural Engineering Services dated October 29, 2010.

On December 5, 2013, you requested a meeting to resurrect this bridge rehabilitation project. Our meeting covered a review the previously completed plans, the City's current construction budget and our projected cost, modifying the existing end posts adjacent to the sidewalk to provide additional clearance for snow removal and maintenance equipment, removal of the aesthetic lighting and fencing from the project, repairing the existing chain link fence, and specifying a construction period that coincides with the adjacent 1st Avenue North reconstruction project. In an email dated December 27, 2013, you directed us to proceed with the additional field measurements, design, and plan changes to reconfigure the project scope. Our cost to complete the requested additional design and plan revision services was \$10,500.00.

During that same meeting you also requested our assistance in preparing the bid and contract documents, contacting potential bidders and distributing to them the final plans and specifications, answering questions during the bid period, attending the bid opening, providing a letter of recommendation on the award of contract, and attending the February 24, 2014 City Council meeting which included the public hearing, approval of the final plans and specifications, and award of the construction contract. Our cost to complete the requested bid document and bid phase services was \$4,500.00.

Chad Schaeffer, P.E.
City Engineer
February 25, 2014
Page 2

With the approval of the construction contract at the City Council's February 24, 2014 meeting, the requested construction phase services will begin. Our services will include arranging and leading a preconstruction conference, providing on-site construction observation, reviewing shop drawing submittals, preparing partial payments, documenting the construction materials used in the project, providing an as-built plan of the limits of deck repair, and providing the field testing required by the governing specifications. In addition, we will maintain the construction records and transmit a full copy to the City at the conclusion of the project. By contract, the Late Start Date is April 1, 2014, and the Contractor is allowed 55 Working Days to substantially complete the work.

We propose to provide the construction phase services at our hourly rates current at the time these services are performed plus actual expenses, all in conformance with Article 4.02.D of our Agreement. Our invoices will include our direct expenses including any specialized material testing performed by our subconsultant, Allender-Butzke Engineers. Our cost for bid and construction phase services will not exceed \$40,000.00 without further authorization.

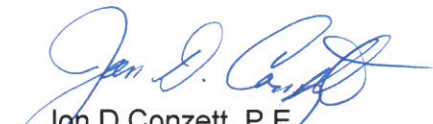
The actual amount of engineering services required during construction by CB&A will ultimately be determined during the construction period. There are several factors which will impact this effort as there are inherent risks in all construction projects. Budgeted fee amounts, hours and scope of services for this project have been based on our previous experience on recent and similar projects. The skill and quality of the bridge rehabilitation contractor, and the amount of poor weather during the construction period, are just a few of the factors which will directly impact how construction of the bridge rehabilitation proceeds and ultimately, the amount of effort required and efficiency by CB&A in providing these services.

All provisions of the original Agreement will remain in effect except as modified by this Supplemental Agreement No. 3.

Please review this submittal and, if it is acceptable, obtain the required signature and return one signed and dated copy to me. We are ready to continue our work on the construction phase and will continue to do a good job for you and the City.

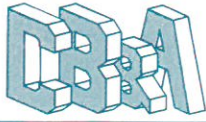
Sincerely,

CITY:


Jon D Conzett, P.E.
Vice President

Matt Bemrich
Mayor

Date: _____



**2013 BRIDGE INSPECTION SUBMITTAL
CITY OF FORT DODGE, IOWA
February 24, 2014**

Review Booklet:

City Transmittal.

4 Bridge Packets. SI&A sheets updated electronically on SIIMS database.

Certification.

Summary.

Includes selected data and remarks from SI&A sheets.

Includes all 19 structures: 9 in City inventory and 10 owned by Railroad.

Master Lists of Fracture Critical (N. 3rd Street) and Special (N. 1st Street) Bridges.
Others listed are railroad owned structures.

Review Individual Bridge Packets:

SI&A comments, photographs, and field reports.

Railroad Owned Structures:

Note limited inspection language on Field Report.

Condition ratings assigned and visual observations noted are limited.

If City will continue to conduct limited inspections on railroad owned structures,
consider formally transmitting a copy of bridge packet to railroad(s).

Refer to 005200 as an example.

These structures will remain awaiting approval in SIIMS. We will not approve due
to our limited inspection and that they are owned by railroad.

N. 1st Street Bridge (500160).

Poor deck (3) and superstructure (3) condition ratings.

Sufficiency rating at 31.

Estimating remaining life at 2 years.

Continue to inspect yearly. Load restriction possible with further deterioration.

Consider budgeting for replacement within 5 years.

Authorize Feasibility Study for replacement options under 2014 Program.

Additional Topics to Review:

Discuss 2014 Program:

List of bridges to inspect (17). Similar to 2012 Program. Review highlighted Summary.

5th Avenue South (052120) is required to have an Element Level Inspection as it is part of the National Highway System. See email from IDOT dated 6/5/13.

Feasibility Study for replacement of N. 1st Street Bridge (500160)

Are there any others (Transfer of Jurisdiction, annexed from County, new) to add?

Currently we are not inspecting any less than 20' structures. Are there any the City would like to add for 2014?