

 <p style="text-align: center;"><b>Council</b> <b>Communication</b> Office of the City Manager</p>	<b>Date:</b> July 29, 2013
	<b>Agenda Item No.</b> 11 <b>Roll Call No.</b> <u>13-1187</u> <b>Communication No.</b> <u>13-387</u> <b>Submitted by:</b> <b>Jeb E. Brewer, P.E., City Engineer</b>

**AGENDA HEADING:**

Approving Change Order No. 6 with Jenco Construction, Inc. for additional work on the Grand Avenue Bridge Project, in an amount not to exceed \$175,000.

**SYNOPSIS:**

Recommend approval of Change Order No. 6 in an amount not to exceed \$175,000 with Jenco Construction, Inc., Herluf Jensen, President, 6804 NW 2nd Street, Des Moines, Iowa, 50313, to revise the bridge falsework design due to unforeseen site conditions pertaining to the presence of boulders and debris/obstructions encountered in the creek channel. This change order is necessary to preserve the current contractual intermediate completion dates and avoid additional delays.

**FISCAL IMPACT:**

Amount: \$175,000

Funding Source: 2013-2014 CIP, Page Bridge-10, Grand Avenue over Walnut Creek, BR045

**ADDITIONAL INFORMATION:**

Traditional concrete slab bridge construction relies on building temporary falsework underneath the proposed bridge to fully support the concrete slab bridge deck while the concrete is placed and is fully cured. The temporary falsework originally proposed is comprised of ten (10) rows of temporary timber pile supports that hold up a series of steel beams and timber joists that temporarily support the forms for the bridge deck.

During excavation and construction of the west abutment footing, pre-existing boulders and debris/obstructions were encountered in the upper soil layers in the creek channel. These obstructions were not encountered in the earlier soil borings. In planning for constructing the falsework, the proposed timber piles to support the falsework are likely to encounter similar conditions. The exact conditions and extent of the underlying obstructions were not and are not presently known, however based upon what has been discovered to date, it is likely extensive. Driving timber piles through this unknown layer could be very difficult with the obstructions present. If the ten row temporary support is constructed, then pursuant to the terms of the Iowa Department of Transportation (IDOT) contract and specifications, additional compensation would be required to excavate and remove the obstructions to facilitate placement of the timber falsework pile. In addition to the extra compensation, an extension of the intermediate completion dates would also need to be granted for the additional time consumed dealing with the unforeseen site conditions and obstructions.

Therefore, a new falsework design is proposed that would eliminate seven (7) of the ten (10) rows of temporary supports. Eliminating a majority of the temporary supports will add additional load on the remaining three (3) supports therefore requiring larger members. The three temporary supports will consist of steel piling that will be supported on a concrete footing. This revised arrangement eliminates any excavation that would be anticipated by obstructions encountered with driving timber falsework piling. In addition, this new design will be faster to construct and would not require extension of the completion dates. This change order compensates the contractor for the redesigned falsework and the larger steel members, and any work and time associated with construction of a three support system through the existing boulders and debris.

**PREVIOUS COUNCIL ACTION(S):**

Date: July 15, 2013

Roll Call Number: [13-1078](#)

Action: [Communication](#) from contractors requesting permission to sublet certain items on public improvement projects. ([Council Communication No. 13-348](#)) Moved by Hensley to adopt. Motion Carried 7-0.

Date: June 10, 2013

Roll Call Number: [13-0881](#)

Action: [Approving](#) Change Order No. 5 with Jenco Construction, Inc. for additional work on the Grand Avenue Bridge Project, not to exceed \$34,656. ([Council Communication No. 13-271](#)) Moved by Hensley to adopt. Motion Carried 7-0.

Date: May 21, 2012

Roll Call Number: [12-0768](#)

Action: [Approving](#) Change Order No. 1 with Jenco Construction, Inc. for additional work on the Grand Avenue Bridge over Walnut Creek, not to exceed \$129,000. ([Council Communication No. 12-254](#)) Moved by Hensley to adopt. Motion Carried 7-0.

Date: May 7, 2012

Roll Call Number: [12-0674](#)

Action: [Approving](#) and authorizing the execution of Iowa Department of Transportation Agreement for Grand Avenue over Walnut Creek Bridge Replacement. ([Council Communication No. 12-215](#)) Moved by Hensley to adopt. Motion Carried 7-0.

Date: April 9, 2012

Roll Call Number: [12-0567](#) and [12-0568](#)

Action: [On](#) Grand Avenue Bridge Over Walnut Creek: Resolution approving plans, specifications, form of contract documents, engineer's estimate, receive and file bids, and designating lowest responsible bidder as Jenco Construction, Inc., (Herluf H.S. Jensen, President), \$3,316,610.69. ([Council Communication No. 12-155](#)) Moved by Hensley to adopt. Motion Carried 7-0.

(A) [Approving](#) contract and bond and permission to sublet. Moved by Hensley to adopt. Motion Carried 7-0.

Date: March 12, 2012

Roll Call Number: [12-0374](#)

Action: (A) [Grand](#) Avenue Bridge over Walnut Creek: Receiving of bids, (3-20-12), Setting date of hearing, (4-9-12). (Construction Estimate - \$3,189,754.65). ([Council Communication No. 12-116](#)) Moved by Hensley to adopt. Motion Carried 7-0.

Date: May 18, 2009

Roll Call Number: [09-0825](#)

Action: Approving Professional Services Agreements for the following: [Shuck](#)-Britson, Inc. for evaluation, design and construction phase services for the Grand Avenue over Walnut Creek Bridge Replacement, not to exceed \$267,864. ([Council Communication No. 09-334](#)) Moved by Kiernan to adopt. Motion Carried 6-1. Absent: Cownie.

Date: March 24, 2008

Roll Call Number: [08-0463](#)

Action: [Approving](#) execution of Iowa Department of Transportation (IDOT) Agreement for Grand Avenue over Walnut Creek Bridge Replacement. ([Council Communication No. 08-159](#)) Moved by Vlassis to adopt. Motion Carried 7-0.

**BOARD/COMMISSION ACTION(S): NONE**

**ANTICIPATED ACTIONS AND FUTURE COMMITMENTS:**

Partial payments to the contractor and final acceptance of work.

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