



Council Communication

Office of the City Manager

Date	May 10, 2010
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Agenda Item No.	7A
Roll Call No.	10-691
Communication No.	10-255
Submitted by:	Jeb E. Brewer, P.E. City Engineer

AGENDA HEADING:

Ordering construction of the following: Easton Boulevard Bridge over Four Mile Creek - Receiving bids, (5-18-10), and Setting date of hearing, (6-14-10). (Construction Estimate - \$1,510,784.25).

SYNOPSIS:

Recommend the City Council proceed with construction of the improvement and set dates to receive bids and hold a public hearing, as required by Iowa Code, utilizing the method of financing referenced below. This project provides for the replacement of the structurally deficient and geometrically obsolete bridge on Easton Boulevard over Four Mile Creek with a new bridge. The new structure will allow for improved roadway geometrics and pedestrian access while improving the hydraulic characteristics of the bridge opening. Recent bridge inspections determined that this 60-year old bridge is structurally deficient and is nearing the end of its useful life.

FISCAL IMPACT:

Amount: \$1,510,784.25 (City Engineer's Estimate)

Funding Source: 2010-2011 CIP, Page Bridge-9, Easton Boulevard over Four Mile Creek, BRV042, Being: Federal Highway Bridge Program funds for 80% of construction costs with a \$1,000,000 maximum, \$260,784.25 in gaming monies from the Agreement with Polk County and The Racing Association of Central Iowa under BRV042, and also a transfer of \$250,000 of gaming monies from City-wide Bridges, Page Bridge-5, BRV003.

ADDITIONAL INFORMATION:

The replacement of the Easton Boulevard Bridge over Four Mile Creek was identified as a high priority project in the 2009 City-Wide Bridge and Structure Evaluation. This 60-year old structure is showing signs of deterioration and should be replaced with a new bridge. The structurally deficient bridge will be replaced with a larger structure that will improve the hydraulic characteristics of the bridge during flood events. The new structure will also provide improved roadway characteristics and sidewalks. Because this will be a complete replacement of the existing structure, Easton Boulevard will be closed during construction.

Due to the condition of this structure, it is eligible for Federal Highway Bridge Program Funds. On February 26, 2007, under Roll Call No. 07-319, the City Council approved the Iowa Department of Transportation (IDOT) Agreement No. 1-07-HBRRU-005 for Federal Highway Bridge Program Funds for Easton Boulevard over Four Mile Creek Bridge Replacement. The agreement specifies that 80% of

the construction costs are eligible for Federal funding up to a maximum of \$1,000,000.

The Engineering Department has prepared plans, specifications, form of contract documents, and City Engineer's estimate for the construction of the Easton Boulevard Bridge over Four Mile Creek, 12-2007-004. The improvement includes the following:

- Division 1: Excavation Class 10 Channel, Removal of Existing Bridge, Excavation Class 20 and 21, Structural Concrete (Bridge), Colored Sealer Coating for Structural Concrete, Reinforcing Steel, Epoxy Coated Reinforcing Steel, Concrete Open Railing, Steel Pipe Pedestrian Railing, Structural Steel Pedestrian Railing, Piles Steel, Engineering Fabric, Revetment Class E, Electrical Circuits, Mobilization, Light Fixture;
- Division II: Clearing and Grubbing, Excavation Class 10 Roadway and Borrow, Top Soil Strip and Spread, Compaction with Moisture and Density Control, Bridge Approach Pavement, Standard or Slip Form 9" PCC Pavement Class C, Removal of Existing Structures, Aprons Concrete 30" and 48", Remove and Reinstall Concrete Pipe Aprons, Manhole Storm Sewer, Storm Sewer (Class II) 30" and 3000 (Class IV) 48", Removal of Storm Sewer Pipe, Removal of Steel Guard Rail, Erosion Stone, Removal of Pavement, Removal Intakes and Utility Access, Removal of Recreational Trail, Recreational Trail 6" and 8" PCC, Special Compaction of Subbase, Removal of Sidewalk, Sidewalk PCC 4" and 8", Detectable Warnings for Curb Ramps, Concrete Barrier Rail, Safety Closure, Fence Chain Link 48", Construction Survey, Painted Pavement Markings, Traffic Control, Fencing, Mulching, Seeding and Sodding, Silt Fence.

All work shall be in accordance with the contract documents, including Plan File Nos. 519-001/047 for Easton Boulevard Bridge over Four Mile Creek in Des Moines, Iowa.

The proposed plans, specifications, and form of contract documents are available for public inspection in the City Engineer's Office.

PREVIOUS COUNCIL ACTION(S):

Date: January 26, 2009

Roll Call Number: [09-068](#)

Action: [Approving](#) Professional Services Agreement with Calhoun-Burns and Associates for design and construction phase services for the Easton Boulevard Bridge Replacement over Four Mile Creek, not to exceed \$155,600. ([Council Communication No. 09-033](#)) Moved by Vlassis to adopt. Motion Carried 7-0.

Date: February 26, 2007

Roll Call Number: [07-319](#)

Action: [Approving](#) Iowa Department of Transportation Agreement for Easton Boulevard over Four Mile Creek Bridge Replacement. ([Council Communication No. 07-099](#)) Moved by Hensley to adopt. Motion Carried 6-1.

BOARD/COMMISSION ACTION(S): NONE

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS:

Anticipated actions include public hearing, receive and file bids, designate lowest bidder, and approve contract and bond; also partial payments to the contractor and final acceptance of work.

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