

 <p style="text-align: center;">Council Communication Office of the City Manager</p>	Date: July 26, 2010
	Agenda Item No. 6D Roll Call No. <u>10-1192</u> Communication No. <u>10-464</u> Submitted by: Jeb E. Brewer, P.E. City Engineer

AGENDA HEADING:

Ordering construction of the following: Pump Station Emergency Power Generation - Phase 1 - Receiving bids, (8-10-10), and Setting date of hearing, (8-23-10). (Construction Estimate - \$1,356,000).

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 installation of emergency generators at four storm water pump stations. The generators will provide power for the pumps during times when the conventional Mid American Energy electrical feeds are disrupted. The City of Des Moines received a grant from the Iowa Department of Economic Development (IDED) in the amount of \$2,500,000 for the installation of emergency stand-by power generators in the five storm water pump stations in the Central Place and Birdland basins. This IDED grant was later amended to add three additional generators located at 1813 2nd Avenue, 601 SW 5th Street, and 700 SW 7th Street.

FISCAL IMPACT:

Amount: \$1,356,000 City Engineer's Estimate

Funding Source: 2010-2011 CIP, Page Storm-16, Storm Water Pump Station Emergency Power Generation, STE084, Being: \$1,057,944.39 in HUD Disaster funds from the Iowa Department of Economic Development for 100% of construction costs associated with the Pump Station Emergency Power Generation with a \$2,500,000 maximum in Federal Jumpstart Infrastructure Assistance funds to fund both Pump Station Emergency Power Generation, Phase 1 and Phase 2. Phase 2 contract cost is \$1,380,187.48 leaving \$1,119,812.52 available for Phase 1 work. The SW 28th and Bell Pump Station is not eligible for IDED funds, so the remaining \$298,055.61 is funded with Storm Water Utility Funds.

ADDITIONAL INFORMATION:

In the summer of 2008, there was extensive damage across Iowa from flooding and other severe weather. As part of the Federal Disaster Relief program, the State of Iowa made funds available under the Jump Start Program for Housing Assistance, Small Business Assistance and Infrastructure Assistance. The first selection considered any project submitted by an authorized agency to the IDED by February 18, 2009. The Jump Start program had \$15.75 million in CBDG funds for Infrastructure Assistance to allocate State-wide.

On February 9, 2009, under Roll Call Number 09-230, the City Council authorized submittal of four project applications under the Infrastructure Assistance Program. The projects were identified as those being the most competitive in the grant selection criteria. Important criteria considered were the direct relationship of the project to the 2008 disaster, threat to health, safety or welfare, benefit to low and moderate-income persons and burden associated to the same group if local revenue was used to accomplish the project and the ability to construct the projects quickly. One of the four project applications submitted was \$2,500,000 for the installation of emergency stand-by power generators in the five storm water pump stations in the Central Place and Birdland basins. These pumping stations currently have redundant commercial feeds, but not stand-by power generators on-site. The near loss of both commercial feeds during the 2008 flood demonstrated the immediate need to install stand-by power for these pump stations.

The City of Des Moines received Contract Number 08-DRI-005 from the IDED in the amount of \$2,500,000 for the installation of emergency stand-by power generators in the five storm water pump stations in the Central Place and Birdland basins. IDED later changed the Contract Number to 08-DRI-205. The grant was approved by the City Council on May 18, 2009, under Roll Call No. 09-832.

When the grant application was prepared, Staff estimated that the five generator installations would cost \$500,000 each for a total of \$2,500,000 for construction only utilizing IDED funds. Storm Water Utility funds would be utilized for design and administrative costs. After the detailed design was completed, the estimate for the five generators was reduced to \$1,520,000. The City proposes to construct stand-by generators at a total of nine stations. With this new detailed estimate, Staff realized that approximately \$1,000,000 of the \$2,500,000 grant would not be spent, so Staff approached IDED about adding additional emergency generators to the original grant to fully utilize these funds. Actual bids for the five generator installations ranged from the low of \$1,380,187.48 to a high of \$1,548,128.48.

On May 24, 2010, under Roll Call No. 10-822, the City Council authorized the Mayor to execute and submit to IDED the necessary grant amendments to Contract 08-DRI-205 for three additional generators estimated at a total of \$1,100,000. Specifically, the emergency generators in the grant amendment request would be located at 1813 2nd Avenue, 601 SW 5th Street, and 700 SW 7th Street. Both SW 5th and SW 7th Street pump stations were constructed after the floods of 1993. These pump stations were constructed with dual electric services, however, they did not have alternative stand-by power generators installed as back-up if the electrical power failed. These pump stations protect areas north of the Raccoon River along the levee, which are most susceptible to flooding. Installation of the emergency generators, as back up, will enable the continued removal of storm water from the areas even with the loss of electrical power. The general location at 2nd Avenue and Franklin Avenue will expand protection for the Central Place business district by providing backup power for this area. These new emergency back-up generators will assist in mitigating the damage caused by floodwater flowing into the neighborhoods and businesses. On June 7, 2010, the City received notice from IDED that IDED had issued an amendment to Contract 08-DRI-205 for three additional generators changing the number of backup generators from five to eight with the grant amount remaining at \$2,500,000.

The Engineering Department has prepared plans, specifications, form of contract documents, and City Engineer's estimate for the construction of the Pump Station Emergency Power Generation - Phase 1, 08-2010-003. The improvement includes installing new generators for various storm water pump stations, including removing pavement and existing fence and constructing new generator pads, fence, and Portland Cement Concrete driveways, surface restoration and other incidental items; in accordance with the contract documents, including Plans File Nos. 516-114/127, at the following storm water pump stations in Des Moines:

2nd Avenue and Franklin Avenue Pump Station - 2nd Avenue and Franklin Avenue
SW 5th Street Pump Station - SW 5th Street and Murphy Street
SW 7th Street Pump Station - SW 7th Street at the Raccoon River
SW 28th and Bell Avenue Pump Station - SW 28th Street and Sunset Road.

The estimated construction cost is \$1,356,000. The proposed plans, specifications, and form of contract documents are available for public inspection in the City Engineer's Office. Three of the four generators in this project are eligible for HUD Disaster funds with the estimated construction cost of \$1,057,944.39. The Phase 2 contract cost is \$1,380,187.48 for the five generator installations, plus the estimated \$1,057,944.39 for the three eligible generator locations, results in the total estimated grant cost for the eight IDED-eligible generators of \$2.44 million, which is slightly under the \$2.5 million IDED Contract 08-DRI-205. Therefore, Staff anticipates that grant funding will be adequate to complete the project work for all eight emergency generators.

PREVIOUS COUNCIL ACTION(S):

Date: June 28, 2010

Roll Call Number: [10-1089](#)

Action: [On](#) Pump Station Emergency Power Generation – Phase 2: Resolution approving plans, specifications, form of contract documents, Engineer's estimate, and status of funded activities under IDED Contract No. 08-DRI-205: Resolution to receive and file bids designating lowest responsible bidder as C. L. Carroll Co., Inc., (Jon P. Rissman, President, (\$1,380,187.48), and to approve Amendment No. 3 to IDED Contract. ([Council Communication No. 10-405](#)) Moved by Moore to adopt. Motion Carried 7-0.

Date: June 28, 2010

Roll Call Number: [10-1090](#)

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

Date: May 24, 2010

Roll Call Number: [10-785](#)

Action: Ordering construction of the following: [Pump](#) Station Emergency Power Generation – Phase 2: Receiving of bids, (6-15-10), Setting date of hearing, (6-28-10). (Construction Estimate - \$1,520,000). ([Council Communication No. 10-291](#)) Moved by Moore to adopt. Motion Carried 7-0.

Date: May 24, 2010

Roll Call Number: [10-822](#)

Action: [Submission](#) of a Grant Amendment to the Iowa Department of Economic Development (IDED) Community Development Block Grant (CDBG) Contract 08-DRI-205 for three additional emergency

storm water generators. ([Council Communication No. 10-277](#)) Moved by Hensley to adopt. Motion Carried 7-0.

Date: May 18, 2009

Roll Call Number: [09-832](#)

Action: [Approving](#) execution of three (3) CDBG Disaster Recovery Infrastructure Grants with the Iowa Department of Economic Development. ([Council Communication No. 09-338](#)) Moved by Kiernan to adopt. Motion Carried 6-1. Absent: Cownie.

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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