

 <p style="text-align: center;">Council Communication Office of the City Manager</p>	Date:	November 8, 2010
	Agenda Item No. 10 Roll Call No. <u>10-1822</u> Communication No. <u>10-683</u> Submitted by: Jeb E. Brewer, P.E., City Engineer and William G. Stowe, Assistant City Manager/Public Works Director	

AGENDA HEADING:

Approving Supplemental Agreement No. 1 to the Certification of Flood Protection System Levees for Federal Emergency Management Agency Compliance Professional Services Agreement with Howard R. Green Company for required geotechnical investigation and analysis, for the Certification of Flood Protection System Levees for Federal Emergency Management Agency Compliance Project, not to exceed \$195,000.

SYNOPSIS:

Recommend approval of Supplemental Agreement No. 1 to the Professional Services Agreement with Howard R. Green Company, Don Lovett, Chief Operating Officer, 5525 Merle Hay Road, Suite 20, Johnston, Iowa, for a total cost not to exceed \$195,000, to provide required geotechnical investigation and analysis for the Certification of Flood Protection System Levees for Federal Emergency Management Agency Compliance Project.

FISCAL IMPACT:

Amount: \$195,000

Funding Source: 2010-2011 CIP – Page Storm Water Improvements-10, Flood Protection System Improvements, FLD008

ADDITIONAL INFORMATION:

The Federal Emergency Management Agency (FEMA) is implementing a nationwide program called Map Modernization to update the nation’s flood hazard maps. As part of the mapping update, FEMA is requiring a review and analysis of the existing levees to insure that the levees meet certain geotechnical, hydraulic, design, and operation and maintenance requirements. This effort must be accomplished in order for FEMA to continue to recognize the levees as protecting against the base (100-year) flood on future maps. The levee reaches included in this project have currently been designated as Provisionally Accredited Levees pending the completion of the certification process after which, full accreditation by FEMA is anticipated.

In December 2009, certification documentation was submitted to FEMA for the levees designated as DM-I, DM-II, DM-III, and RR-I. FEMA has requested additional information to support the

certification in four areas including Freeboard, Embankment Protection, Embankment and Foundation Stability, and Interior Flooding. Supplemental Agreement No.1 includes additional required geotechnical investigation and analysis to address FEMA comments. This additional investigation, requested by FEMA, was not included in the original scope of services.

In addition, City staff has had the opportunity to observe the levee system during recent high water events in 2008 and 2010. Areas were identified during those events where there was ponding adjacent to the levee system, and where there was some minor seepage noted. Although geotechnical investigation as a part of the FEMA certification process has indicated these areas meet regulatory requirements, it is recommended by City staff that further investigation be done in these areas to determine if the visual observations indicate any issues that will require future mitigation.

PREVIOUS COUNCIL ACTION(S):

Date: May 4, 2009

Roll Call Number: [09-749](#)

Action: [Approving](#) letter of agreement for Provisionally Accredited Levee (PAL) Designation and Agreement to provide adequate compliance for the levee designated as RR-1 with the Code of Federal Regulations, Title 44, Section 65.10 with the Federal Emergency Management Agency. ([Council Communication No. 09-280](#)) Moved by Hensley to adopt. Motion Carried 7-0.

Date: February 9, 2009

Roll Call Number: [09-168](#)

Action: Authorizing Public Works Director and Mayor to execute a letter of agreement and request for Provisionally Accredited Levee (PAL) designation and agreement to provide adequate compliance with the Code of Federal Regulations, Title 44, Section 65.10 with the Federal Emergency Management Agency. ([Council Communication No. 09-056](#)) Moved by Vlassis to adopt. Motion Carried 7-0.

Date: February 26, 2007

Roll Call Number: [07-322](#)

Action: Approving Professional Services Agreements with Howard R. Green for the following: (A) [Certification](#) of Flood Protection System Levees for Federal Emergency Management Agency Compliance, \$350,000. ([Council Communication No. 07-113](#)) Moved by Hensley to adopt. Motion Carried 6-1.

BOARD/COMMISSION ACTION(S): NONE

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS: NONE

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