

 <p style="text-align: center;"><b>Council</b> <b>Communication</b> Office of the City Manager</p>	<b>Date:</b>	May 9, 2016
	<b>Agenda Item No.</b>	<b>8</b>
	<b>Roll Call No.</b>	<b><u>16-0747</u></b>
	<b>Communication No.</b>	<b><u>16-249</u></b>
	<b>Submitted by:</b>	<b>Pamela S. Cooksey, P.E., City Engineer</b>

**AGENDA HEADING:**

Approving Supplemental Agreement No. 1 to the Professional Services Agreement with Stantec Consulting Services, Inc. for additional geotechnical and geoarchaeological services for SEDM levee assessment and analysis, not to exceed \$92,300.

**SYNOPSIS:**

Recommend approval of the Supplemental Agreement No. 1 to the Professional Services Agreement with Stantec Consulting Services, Inc., John S. Montgomery, Vice President, 1859 Bowles Avenue, Suite 250, St. Louis, Missouri 63026, for an additional cost not to exceed \$92,300, based on hourly rates, to provide additional geotechnical and geoarchaeological professional services for SEDM Levee Assessment and Analysis.

**FISCAL IMPACT:**

Amount: \$92,300

Funding Source: 2016-17 CIP, Page Storm Water Improvements-6, Flood Mitigation Improvements, SM087, Storm Revenue Bonds

**ADDITIONAL INFORMATION:**

On June 24, 2013, by Roll Call No. 13-1059, City Council approved a professional services agreement with Stantec for DM-I, DM-II and DM-III for Levee Assessment and Analysis. Work supported the City’s levee accreditation program relative to the requirements of the Federal Emergency Management Agency (FEMA) listed in the National Flood Insurance Program (NFIP) regulations cited in the Code of Federal Regulations (CFR) Title 44, Chapter 1, Section 65.10 (44 CFR 65.10) and included field reconnaissance, geotechnical exploration and laboratory testing, engineering analyses of freeboard, closure structures, embankment protection, levee and foundation stability, settlement, and interior drainage. Stantec also supported the City in coordination with the U.S. Army Corps of Engineers (USACE) relative to the requirements for levee alterations listed in United States Code (USC) Title 33, Chapter 9, Subchapter 1, Section 408.

The DM-I levee system is hydraulically connected to the Red Rock Reservoir Remedial Works – Southeast Des Moines/Southwest Pleasant Hill Remedial Works levee (commonly referred to as Southeast Des Moines (SEDM)). The SEDM levee was authorized, designed, and constructed by the USACE and is primarily operated and maintained by the USACE Red Rock Project Office. FEMA

considers the DM-I and SEDM levees part of the same “system” (since they are hydraulically connected); therefore, it is required that SEDM be accredited in order for DM-I to be accredited.

On August 24, 2015, by Roll Call No. 15-1409, City Council approved a professional services agreement with Stantec to perform an engineering evaluation of SEDM in accordance with 44 CFR 65.10 and includes field reconnaissance, geotechnical exploration and laboratory testing, engineering analyses of freeboard, closure structures, embankment protection, levee and foundation stability, settlement, and interior drainage. Stantec is also following the USACE guidelines in Engineering Circular (EC) 1110-2-6067 for NFIP levee system evaluation when providing levee accreditation documentation to FEMA.

This Supplemental Agreement includes the following additional geotechnical and geoarchaeological services as part of the SEDM assessment and analysis:

1. Preparation of a Drilling Program Plan for geotechnical field exploration services in accordance with U.S. Army Corps of Engineers (USACE) requirements for drilling in earth embankment levees.
2. Completion of an additional four (4) soil borings in coordination with the City’s Southeast Connector Project.
3. Employment of a geoarchaeologist to perform on-site monitoring of 36 soil borings as recommended by the USACE.

#### **PREVIOUS COUNCIL ACTION(S):**

Date: August 24, 2015

Roll Call Number: [15-1409](#)

Action: [Approving](#) Professional Services Agreement with Stantec Consulting Services, Inc. for SEDM Levee Assessment and Analysis, not to exceed \$1,317,000. ([Council Communication No. 15-467](#))  
Moved by Hensley to adopt. Motion Carried 7-0.

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

#### **ANTICIPATED ACTIONS AND FUTURE COMMITMENTS:**

Normal Council actions on consultant services. Consultant services for subsequent phases required to design and permit identified improvements to obtain USACE Section 408 approval and achieve FEMA accreditation.

For more information on this and other agenda items, please call the City Clerk’s Office at 515-283-4209 or visit the Clerk’s Office on the first floor of City Hall, 400 Robert D. Ray Drive. Council agendas are available to the public at the City Clerk’s Office on Thursday afternoon preceding Monday’s Council meeting. Citizens can also request to receive meeting notices and agendas by email by calling the Clerk’s Office or sending their request via email to [cityclerk@dmgov.org](mailto:cityclerk@dmgov.org).