

 <p style="text-align: center;"><b>Council</b> <b>Communication</b> Office of the City Manager</p>	<b>Date:</b>	March 20, 2017
	<b>Agenda Item No.</b>	<b>8</b>
	<b>Roll Call No.</b>	<b><u>17-0461</u></b>
	<b>Communication No.</b>	<b><u>17-308</u></b>
	<b>Submitted by:</b>	<b>Pamela S. Cooksey, P.E., City Engineer</b>

**AGENDA HEADING:**

Approving Professional Services Agreement with Iteris, Inc. for Intelligent Transportation Systems (ITS) Master Plan services, not to exceed \$283,177.

**SYNOPSIS:**

Recommend approval of the Professional Services Agreement with Iteris, Inc. (1700 Carnegie Avenue, Santa Ana, CA 92705-5551) for a total cost not to exceed \$283,177, based on hourly rates, to develop a phased plan to evaluate and update the City's existing ITS including traffic signal controllers and cabinets, detection of all modes of transportation, video observation, dynamic message systems, school flashers, communication systems, central management software and hardware and an overall traffic data management strategy.

**FISCAL IMPACT:**

Amount: \$283,177

Funding Source: 2017-2018 Capital Improvement Program (CIP), Streets–Page-45, Traffic System Operation Improvements, TR097, GO Bonds to be issued

**ADDITIONAL INFORMATION:**

- The current ITS infrastructure for the City of Des Moines primarily consists of antiquated technologies, including traffic signal controllers using 1970's technology, video observation cameras that are often not operable, and a central management software that is outdated and will soon be unable to run on City computer systems due to operating system upgrades. Due to the limitation of the existing ITS, staff cannot monitor or adjust traffic signal operations during special events, unusual circumstances causing traffic to back up, or other situations when it would be advantageous to quickly make such adjustments.
- The ITS Master Plan will include an inventory of existing ITS equipment, a needs assessment to determine the City's expectations for the system, concept design and cost estimates of the new systems, and an implementation plan including potential outside funding opportunities to supplement City funding. The plan will identify ITS technologies and staffing necessary to better operate the City's traffic signal system and accommodate the emerging technologies associated with Smart Cities including connected and autonomous vehicles, connected pedestrians and bicyclists, and emergency vehicle preemption systems.

- City staff solicited proposals to complete the study and selected Iteris, Inc. based on qualifications and previous similar experience. Staff has negotiated a Professional Services Agreement with Iteris, Inc., for a total cost not to exceed \$283,177, based on hourly rates, to provide Intelligent Transportation Systems Master Plan services.

**PREVIOUS COUNCIL ACTION(S): NONE**

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

**ANTICIPATED ACTIONS AND FUTURE COMMITMENTS:**

Identified ITS improvements will be planned through a future CIP.

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