


## COUNCIL COMMUNICATION

	Number:	<b>22-186</b>	Meeting:	<b>April 18, 2022</b>
	Agenda Item:	<b>47</b>	Roll Call:	[ ]
	Submitted by:	<b>Anna W. Whipple, CIO, Information Technology Director</b>		

### AGENDA HEADING:

Approval of purchase of Cisco IE4000 network hardware for Intelligent Transportation Systems from Heartland Business Systems, (Peter Helander, CEO, 108 3rd Street, Suite 300, Des Moines, Iowa 50309) per the State of Iowa Contract No. 21306, which is competitively bid.

### SYNOPSIS:

Recommend approval of the purchase of Cisco IE 4000 network hardware from Heartland Business Systems, per the State of Iowa Contract No. 4846A, NASPO ValuePoint AR233, which is competitively bid. This purchase will allow the Information Technology (IT) Department to purchase the network equipment and management software to support Phase 2 of the Intelligent Transportation Systems (ITS) Master Plan. The implementation of ITS requires deploying IP networking capabilities to City traffic signal cabinets.

### FISCAL IMPACT:

Amount: \$280,807.80

Funding Source: FY2020-2021/FY2025-2026, TR097, C038EG99, Traffic System Operation Improvements, G.O. Bonds, Page Street – 164.

### ADDITIONAL INFORMATION:

- The results and recommendations of the ITS Master Plan were presented to City Council at a work session on October 22, 2018. On November 19, 2018, the City Council adopted the ITS Master Plan as a framework for the City of Des Moines future traffic management and communication system infrastructure.
- The ITS Master Plan addresses major components: signal system hardware and software, work order system, fiber communications infrastructure, video observation cameras, and dynamic message signs.
- The current ITS infrastructure for the City of Des Moines primarily consists of antiquated technologies, including traffic signal controllers using 1970s 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.

- The ITS Master Plan is broken into eight (8) phases that are prioritized on vehicle volumes, roadway capacity, annual crashes, truck/transit route needs, existing operational issues, and conditions of existing communications.
  
- Phase 2 includes upgrading 59 traffic signal locations along:
  - Hubbell Avenue from Guthrie Avenue to E Broadway Avenue
  - E Euclid Avenue from E 14th Street to E. 33rd Street
  - E 14th Street from E Grand Avenue to E Euclid Avenue
  - Fleur Drive from John R. Grubb Lane to Army Post Road
  - Army Post Road from Fleur Drive to SE 14th Street
  - SE 14th Street from Army Post Road to E Martin Luther King Jr. Parkway
  - Indianola Avenue from SE 14th Street to E Army Post Road
  
- The upgrades at each intersection in Phase 2 include:
  - Fiber optic cable
  - IP Network switch
  - Traffic signal cabinet, controller, and ITS device as applicable

**PREVIOUS COUNCIL ACTION(S):**

Date: April 19, 2021

Roll Call Number: [21-0631](#)

Action: Purchases from the following:

- (A) [Heartland](#) Business Systems, LLC (Peter Helander, CEO) for Cisco IE 4000 network hardware per State of Iowa Contract as requested by the Information Technology Department, \$200,713.20. ([Council Communication No. 21-169](#)) Moved by Gatto to adopt. Motion Carried 7-0.

**BOARD/COMMISSION ACTION(S): NONE****ANTICIPATED ACTIONS AND FUTURE COMMITMENTS: NONE**

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