

ITEM #: 15
DATE: 03-25-25
DEPT: PW

COUNCIL ACTION FORM

SUBJECT: 2023/24 INTELLIGENT TRANSPORTATION SYSTEM PROGRAM (PHASE 3)

BACKGROUND:

The Intelligent Transportation System (ITS) program provides for the installation of infrastructure for a traffic adaptive signal system that will conduct real-time optimization of traffic and pedestrian flow at signalized intersections. Traffic adaptive systems provide a significant improvement in efficiency and will optimize travel times during all times of the day. Completion of the network is programmed with six phases (an overall phasing map is attached).

Traffic signal improvements rank as one of the highest priority areas from the Ames Resident Satisfaction Survey. **This project is for Phase 3 of the program which will primarily expand the ITS network along Grand Avenue (US HWY 69) and also extend the network north on Duff Avenue from 13th St to Grand Avenue.** Staff has been working with HR Green and GBAsi, the consultant team developing this project.

At the March 26, 2024 meeting, City Council awarded the contract to Van Maanen Electric, Inc. of Newton, Iowa, in the amount of \$1,817,416.71. The table below shows the revenues and expenses for this project.

	Estimated Expenses		Available Revenue
Design	\$ 172,620.00		
Construction	\$1,817,416.71		
Administration	\$ 150,000.00		
		Road Use Tax Fund	\$ 549,700
		G.O. Bonds	\$ 468,300
		ICAAP Grant*	\$1,495,280
		U-STEP Grant**	\$ 400,000
TOTALS	\$2,140,036.71	TOTALS	\$2,913,280

*The ICAAP Grant is for 80% of eligible construction costs up to a maximum of \$1,495,280

**The U-STEP Grant is for 55% of eligible construction costs along HWY 69 up to a maximum of \$400,000

The original design of Phase 3 of the ITS program planned to leave the three existing Gridsmart detection systems to reduce costs, while the proposed detection systems would be systems manufactured by NoTraffic. However, during the construction of Phases 1 and 2, **it became evident that maintaining a uniform detection system across all intersections significantly improves the operation of the ITS system.** Based on this finding, and available grant funding, a decision was made to replace the existing Gridsmart systems with NoTraffic detection systems for consistency. **The contractor agreed to apply the bid unit price for NoTraffic installations to these three locations, resulting in a total change order amount of \$101,856.00, with the local share equating to \$9,167.04.**

The table below shows the grant funding and local funding that can be used for the change order:

Funding Source	Available Revenue
ICAAP Grant	\$ 44,866.63
U-STEP Grant	\$ 47,822.33
Local Funding	\$ 9,167.04
TOTAL	\$101,856.00

ALTERNATIVES:

1. Approve Change Order No. 1 in the amount of \$101,856.00.
2. Do not approve the change order and direct staff to pursue other options.

CITY MANAGER'S RECOMMENDED ACTION:

By approving this change order, key intersections along the Phase 3 corridors can receive upgraded detection systems. Grant funding for this project results in the City's share of this increase totaling only \$9,167.04. Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1 as described above.

ATTACHMENT(S):

[ITS Cumulative Phase Map.pdf](#)