



Meeting Date: 11/16/10

ACTION	TYPE OF ITEM
<input type="checkbox"/> Approved Recommendation	<input checked="" type="checkbox"/> Info/Consent
<input type="checkbox"/> Ord. No(s). _____	<input type="checkbox"/> Report
<input type="checkbox"/> Res. No(s). _____	<input type="checkbox"/> Public Hearing
<input type="checkbox"/> Other _____	<input type="checkbox"/> Other _____

Prepared By: Matthew G. Winegar *[Signature]* Agenda Item No. I-5

Reviewed By: City Manager *[Signature]* City Attorney *[Signature]* Finance *[Signature]* Other (Specify) \_\_\_\_\_

**DATE:** October 22, 2010

**TO:** City Council

**FROM:** Matthew G. Winegar, AICP, and Development Services Director *[Signature]*

**SUBJECT:** Agreement with Iteris, Inc. to provide plans and specifications for Implementation of the Intelligent Transportation System (ITS) Master Plan

**RECOMMENDATION**

That City Council approve Agreement No. 5217-10-DS with the engineering consulting firm of Iteris, Inc., in the amount of \$751,275. This Agreement is for the consultant to design and produce engineering plans and specifications for implementation of the City's ITS Master Plan.

**DISCUSSION**

A report was presented to the Council on October 12, 2010 detailing the revised strategy for implementing the ITS Master Plan. The scope of work contained within the agreement is for the consultant to design and provide engineering plans and specifications for all phases of the ITS Master Plan. These plans will be of such detail that they can be used as part of the bid documents for construction.

The bulk of the design is for the fiber optic backbone and gigabit Ethernet communication system to transmit data between the Traffic Management Center (TMC) and traffic signal controlled intersections and vice-versa. The fiber optic network will be installed along certain major arterial roadways. Traffic signals on these corridors will have fiber communication with the TMC. Traffic signals not located on these corridors will utilize existing copper wire interconnects to communicate with the fiber optic backbone or directly to the TMC. Intersections without wire communication will utilize wireless communication to the nearest traffic signal with either copper wire or fiber optic communication.

Other components also to be designed are the installation of traffic surveillance cameras, distribution of roadway and traffic information to drivers and strengthening the system through the eventual installation of redundant communication networks and the upgrading of the system with the latest technology available.

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**FINANCIAL IMPACT**

Funds are available from the City Council Measure O allocation for the cost of the consulting agreement. The value of the consulting Agreement is \$751,275. The estimated cost to fully design, construct and implement the ITS Master Plan is approximately \$11 million. The first phase of the plan will cost approximately \$6.5 million which included design, construction and integration. The City Council has specified funding for the program by a combination of both Measure O funds (\$3.5M), CIP funds (\$3.0M) from Traffic Impact fees, and a \$340,000 grant from the Department of Energy for the TMC. Future funding sources may include a combination of Traffic Impact Fees and Measure "O" funds. Staff will continue to pursue grant funding sources such as federal TIGER grants and also evaluate alternative technologies, such as wireless communications, to reduce overall project costs.

Attachment #1 - Agreement No. 5217-10-DS

Note: Agreement with Iteris, Inc. has been provided to the City Council. Copies are available for review at the Help Desk (second floor) in the Main Library after 10:00 a.m. on the Saturday prior to the Council meeting, and at the City Clerk's Office after 8:00 a.m. on Monday.

MGW/djo