

# STAFF REPORT

## City of Lancaster

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Date: January 10, 2017

To: Mayor Parris and City Council Members

From: Jeff Hogan, Development Services Director

Subject: **Professional Services Agreement – Design Services for Public Works Construction Project No. 16-001 (Traffic Signal System Modernization and North County ITS Expansion Projects)**

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### **Recommendation:**

Award the design contract to Advantec Consulting Engineers, Inc., for Task Order No. 1 in accordance with the 2016-2018 Multi-Year Professional Services Agreement in the amount of \$395,560.00, and authorize a contingency in the amount of \$23,500.00, for a total contract amount not to exceed \$419,060.00. The contract will cover design services for Public Works Construction Project No. 16-001 (Traffic Signal System Modernization and North County ITS Expansion Projects). Authorize the City Manager, or his designee, to sign all contracts and associated documents, subject to City Attorney approval.

### **Fiscal Impact:**

\$419,060.00; sufficient funds are available in Capital Improvements Budget Account Nos. 217-16TS028, 217-11TS001, 321-11TS001, and 217-16TS026.

### **Background:**

The City of Lancaster (City) has received two grants which will allow for the upgrade of the City's traffic signal infrastructure. This will reduce travel times, and increase the level of service, throughout the City.

The first grant was awarded for the North County ITS Expansion project. The project is funded under the 2007 Metro Call for Projects. Lancaster and Palmdale were jointly awarded the respective grant funding, which includes the City's proposed intelligent transportation systems (ITS) expansion scope of work. The overall project cost for the City's improvements is \$1,410,821.00. Under terms of the MOU, the Los Angeles County Transportation Authority (LACMTA) will contribute up to \$1,128,656.80, representing 80% of the project costs within the City, and the City will contribute up to \$282,164.20, representing the committed 20% local participation, which is available in Traffic Signal Impact Fees.

The North County ITS Expansion project will upgrade the City's Central Traffic Control Management System and provide for a connection to the Los Angeles County Information Exchange Network. The upgrades will include installation of new traffic signal controllers, and installation of new, upgraded, communications equipment. Updating older hardware and software allows more efficient systems that rely on improved ITS technologies and communications.

The second grant was awarded for the Traffic Signal System Modernization project. At its September 22, 2011, meeting, LACMTA approved the project list and funding allocation for Traffic Signal System Modernization. The proposed Proposition C Funding Agreement is for design, project development, right-of-way, and construction of Traffic Signal System Modernization. The total funds designated for this project are \$2,018,784.00, including the City's matching funds. The matching fund requirement for the City is 50% (\$1,009,392.00) of the total project expenditures, and is available in Traffic Signal Impact Fees.

The Traffic Signal System Modernization project will replace the City's aging traffic signal communications system infrastructure to a more reliable, redundant, and faster system based on current ITS architecture. The project will replace the existing copper interconnect with fiber-optic cable and equipment, and install wireless communications to remote signalized intersections. The project will reduce travel times, and increase the level of service, by providing real-time data, which will allow for reduced cycle lengths at signalized intersections.

City staff has completed the consultant selection process for consultant design services for the North County ITS Expansion Projects and Traffic Signal Modernization projects. The design consultant selection was completed using the 2016-2018 Multi-Year Professional Services Agreement, and was completed in accordance with Government Codes 4526 and 53060. Advantec Consulting Engineers, Inc., of Palmdale, California, was the selected consulting firm. The total cost for the design of both projects, including a contingency, is \$419,060.00. The design services include data collection and existing System inventory, and preparation of plans, specifications, and estimates for construction.

AP:lcs:sy

**Attachment**  
Task Order No.1