

City of Culver City, California
City Council Agenda Item Report

Date: 10/08/07		Item Number: C-8	
AGENDA ITEM: Approval of Final Plans and Specifications and Authorization to Advertise for Bids for Fox Hills Area Traffic Signal Upgrade and Certification of Existing Traffic Signal Communication Infrastructure Components of the Fox Hills Traffic Signal Synchronization Project			
Contact Person/Dept.: Elaine Jeng/PW		Phone Number: (310) 253-5621	
Fiscal Impact: Yes ☒ No ☐		General Fund: Yes ☒ No ☐	
Public Hearing: ☐		Action Item: ☒ Attachments: ☒	
Public Notification: Master Notification List (10/03/07)			
Department Approval: Charles D. Herbertson (09/27/07)		City Attorney Approval: Carol Schwab (by H. Iker) (10/01/07)	
Fiscal Impact Approval: Marlee Chang (10/01/07)		City Manager Approval: Jerry B. Fulwood (10/03/07)	
<u>RECOMMENDATION:</u> Staff recommends the City Council approve the final plans and specifications and authorize the advertising for construction bids for one component of the Fox Hills Traffic Signal Synchronization Project P-852 (Fox Hills Project): the upgrade of twelve (12) traffic signals and the certification of existing traffic signal communication infrastructure. <u>BACKGROUND:</u> Staff submitted an application to the Los Angeles County Metropolitan Transportation Authority (Metro) 2001 Call for Projects program for the interconnect and upgrade of 12 signalized intersections in the Fox Hills neighborhood and the evaluation and installation of a citywide automated traffic signal control and monitoring project system. The application proposed three components of work. The first component is to upgrade 12 traffic signals within the Fox Hills area to connect to the Los Angeles Department of Transportation (LADOT) automated traffic surveillance and control (ATSAC) center. Previously, the Jefferson and Sepulveda Gap Closure projects bridged approximately 29 other traffic signals to LADOT's traffic control center. The traffic signals within the Fox Hills areas are the last signalized locations within the city that are not connected to LADOT ATSAC Center. Currently, traffic signals data are transmitted to LADOT via dedicated City owned underground copper wires from City Hall. The existing 50 twisted pair copper wire from City Hall to LADOT hub at the Los Angeles Fire Station 68, located approximately 5 miles east of City Hall, is at			

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full capacity. The lack of capacity in the existing copper wire prevents the City from transmitting additional traffic signal data to LADOT ATSAC center.

The second component of the Fox Hills project is to switch the data transmission from copper wire interconnection to the City's existing traffic signal fiber optic network, installed as part of a prior Metro Traffic Signal upgrade project, between City Hall and LADOT hub. The existing network is comprised of 24 strands of fiber optic lines that offer the capacity to transmit data for more than 1,000 traffic signals or a combination of video and traffic signal data.

The third component of the project is to acquire a citywide traffic control system. This in turn requires a working traffic signal interconnect infrastructure. (Interconnect is the communication line between traffic signals.) To ensure the existing traffic signal interconnect infrastructure is operating properly and to make corrections as needed, it is necessary to perform a certification process on the interconnect system.

The Memorandum of Understanding (MOU) between the City and Metro was fully executed in March 2006. KOA, in association with Transcore, was awarded a contract as approved by the City Council in October 2006 to provide the design and preparation of the plans and specifications for the first two components of the project.

DISCUSSION:

KOA completed the design and preparation of the plans and specifications for the two components of the Fox Hills project. The first two components of work require different sets of contractor expertise. Thus, each component will be advertised for bids separately. This report recommends to the City Council that the first component of the project's plans and specifications for the 12 traffic signals upgrade and the certification of the City's existing communication (interconnect) infrastructure be approved and advertised for construction bids.

It is proposed that the project advertise for bids on October 9, 2007, with a bid opening date of Thursday, November 8, 2007, and award of contract on November 19, 2007. Construction is anticipated to commence in January 2007.

At the July 16, 2007, City Council meeting, the second component (mutual video sharing and to migrate traffic signals data transmission from copper to fiber optic) of the project's plans and specifications and advertisement for construction bids was approved. This component of work was advertised for bid on October 1 with a bid opening date of Thursday, November 8, 2007.

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FISCAL ANALYSIS:

There are sufficient funds in the adopted 2007/08 Capital Improvement Budget with reimbursable Metro (MTA) Grant funds and State Gas Tax funds to pay for the proposed work. Funding is appropriated in CIP Project-852 – Fox Hills Area Traffic Signal Synchronization.

ATTACHMENT:

- A. Traffic Signal Upgrade and Certification Engineering Plans, Title Sheet.
- B. City Council Agenda Report dated July 16, 2007

MOTION:

That the City Council:

- 1) Approve the plans and specifications for the upgrade of the 12 traffic signals within the Fox Hills Area and the certification of the City's existing communication (interconnect) infrastructure; and
- 2) Authorize advertising for construction bids for the upgrade of the 12 traffic signals and the certification of the City's existing communication (interconnect) infrastructure;