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Title: Actions pertaining to the Shaw Avenue Intelligent Transportation Systems (ITS) Traffic Signal Synchronization Project (SR99 - SR41) (Council Districts 1, 2 and 4)
1. Adopt a finding of Categorical Exemption pursuant to Section 15301(c) (Existing Facilities) of the California Environmental Quality Act Guidelines
2. RESOLUTION - To dispense with the competitive bidding requirements and authorize the Public Works Director to enter into a contract for the purchase of traffic signal adaptive modules for central processing unit, licenses, configuration, training, and warranty (Requires 5 affirmative votes)
3. Award a purchase contract in the amount of \$338,100 to Trafficware Group Inc., for the purchase of Synchro Green modules for the 16 intersections for the Shaw Avenue ITS Traffic Signal Synchronization Project

Sponsors: Public Works Department

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Attachments: 1. 19-1453 Sole Source Memorandum.pdf, 2. 19-1453 Resolution.pdf

Date	Ver.	Action By	Action	Result
5/16/2019	1	City Council	adopted	

REPORT TO THE CITY COUNCIL

May 16, 2019

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SUBJECT

Actions pertaining to the Shaw Avenue Intelligent Transportation Systems (ITS) Traffic Signal Synchronization Project (SR99 - SR41) (Council Districts 1, 2 and 4)
1. Adopt a finding of Categorical Exemption pursuant to Section 15301(c) (Existing Facilities) of the California Environmental Quality Act Guidelines

2. RESOLUTION - To dispense with the competitive bidding requirements and authorize the Public Works Director to enter into a contract for the purchase of traffic signal adaptive modules for central processing unit, licenses, configuration, training, and warranty (Requires 5 affirmative votes)
3. Award a purchase contract in the amount of \$338,100 to Trafficware Group Inc., for the purchase of Synchro Green modules for the 16 intersections for the Shaw Avenue ITS Traffic Signal Synchronization Project

RECOMMENDATION

Staff recommends that the City Council authorize the Public Works Director to specify Trafficware Group, Inc., for the purchase of Synchro Green Adaptive Signal Control Technology (ASCT), under the sole-source competitive bidding exception, and award a contract in the amount of \$338,100 to Trafficware Group Inc., for the purchase Synchro Green modules for the 16 intersections included in the west Shaw Avenue ITS Traffic Signal Synchronization Project.

EXECUTIVE SUMMARY

The West Shaw Avenue (from State Route 99 to State Route 41) ITS corridor currently operates with a static time-of-day synchronization only during peak travel times and requires a real time (24 hours/day and 7 days/week) adaptive synchronization system identical to east Shaw Avenue corridor (SR41 - SR168). The west Shaw Avenue signalized intersections are interconnected with state-of-the-art ITS infrastructure and only require Trafficware Synchro Green ASCT modules for an efficient traffic adaptive coordination system, improving safety, operations, energy conservation, and effective capacity of the Shaw Avenue corridor.

BACKGROUND

Shaw Avenue is a major east-west corridor that provides access to the SR99, SR41, SR168, Fashion Fair Mall, Fresno State University, Save Mart Center, City of Clovis, and a multitude of businesses along the second busiest corridor in the City of Fresno. The West Shaw Avenue corridor (SR99 - SR41) currently operates with an Advanced Transportation Management System (ATMS) capable of only static time-of-day synchronization during peak travel times and requires an ATMS Adaptive Signal Control Technology System (ASCT) identical to east Shaw Avenue corridor (SR41 - SR168). The west Shaw Avenue (SR99 - SR41) signalized intersections are interconnected with state-of-the-art fiber optics communications, vehicle detection, cameras, advanced traffic signal controllers and only require Trafficware Synchro Green Adaptive Signal Control Technology (ASCT) modules for an efficient traffic adaptive coordination system, improving safety, operations, energy conservation and effective capacity of the entire Shaw Avenue corridor while reducing emissions and improving overall quality of life.

The West Shaw Avenue Synchro Green ASCT module licenses will be an addition to the Traffic Operations Center's existing Synchro Green ASCT System which has been in operation since 2013 along east Shaw Avenue corridor. The east Shaw Avenue corridor travel time study indicates 23% improvements during the AM peak and 31% improvement during the PM peak.

In 2012, the City's Traffic Operations Center ASCT System was competitively bid as part of the east Shaw Avenue Intelligent Transportation System (SR41 - SR168) Project, Bid File 3192-11381. In

2013, The System Engineering Management Plan (SEMP) for the deployment of Trafficware ATMS Synchro Green ASCT System was reviewed and approved by Caltrans and Federal Highway (FHWA). On June 18, 2018, Caltrans Cost Effectiveness/Public Interest Finding (Caltrans LAPM Exhibit 12-F PIF) was filed with Caltrans Local Assistance and FHWA's Proprietary.PIF@dot.ca.gov <<mailto:Proprietary.PIF@dot.ca.gov>> web site for the sole source procurement Trafficware Synchro Green ASCT modules for ITS Herndon Avenue and west Shaw Ave, citing the addition of Trafficware Synchro Green ASCT modules are essential for synchronization with the existing City's System, safe interoperability, and cost effectiveness.

The Trafficware Synchro Green module is manufactured, distributed, configured, and maintained only by Trafficware Group Inc. The Trafficware ATMS Synchro Green ASCT module includes traffic signal controller central processing unit boards (2070-1C CPU), intersection licenses, configuration, training, and a five-year warranty. The Trafficware price list for South Carolina DOT, Local Governments, 2013, was used to assess the Trafficware quote for the City of Fresno. The 2018 Synchro Green quoted prices for City of Fresno are 14.8% higher as compared with 2013 prices which accounts for a 2.8% annual price inflator if a similar California state-wide contract were negotiated today.

Staff recommends Council award a sole-source contract to Trafficware Group Inc., in the amount of \$338,100 and authorize the Public Works Director or Purchasing Manager to sign and execute the purchase order on behalf of the City of Fresno.

ENVIRONMENTAL FINDINGS

Staff has performed a preliminary environmental assessment of this project and has determined that it falls within the Categorical Exemption set forth in CEQA Guidelines Section 15301(c) (existing facilities), which exempts the repair, maintenance, or minor alteration of existing structures or facilities, including existing streets, sidewalk and gutters, with no further expansion of existing use. Furthermore, staff has determined that none of the exceptions to Categorical Exemptions set forth in the CEQA Guidelines, Section 15300.2 apply to this project.

LOCAL PREFERENCE

Local preference was not implemented based on conditions of the federal funding for the project.

FISCAL IMPACT

The project will have no impact to the General Fund. The Shaw ITS Traffic Signal Synchronization Project (SR41 - SR99) (Council Districts 1, 2 and 4) has an overall cost of \$450,000 and is funded by a Federal grant from the Congestion Mitigation and Air Quality Improvement Program (CMAQ), with Proposition 111 Gas Tax as the local match. Of the overall budget of the project, \$338,100 will be used for the sole-source purchase order.

Attachments:

Resolution

Sole Source Memorandum