



Memorandum

TO: HONORABLE MAYOR AND
CITY COUNCIL

FROM: Hans F. Larsen

**SUBJECT: CONSULTANT AGREEMENT
FOR TiMC SYSTEMS
MANAGER SERVICES**

DATE: 05-03-10

Approved:

Date:

5/10/10

COUNCIL DISTRICT: 3

RECOMMENDATION

Approval of an agreement with Siemens Industry, Inc. for consultant services for the system design and implementation of the Transportation Incident Management Center (TiMC) for the period of the date of execution to December 30, 2013 and in a total amount not to exceed \$997,700.

OUTCOME

Ensure that the federally grant funded TiMC complies with federal intelligent transportation system (ITS) project management guidelines and that appropriate technologies are integrated and leveraged to provide safe and efficient travel flow within San José and the region.

BACKGROUND

Transportation Management Centers (TMC) are used throughout the country by transportation agencies to help improve mobility and enhance safety on local streets and freeways. TMC's are traditionally equipped with traffic surveillance, traffic signal control, and motorist information systems that enable operators to detect traffic congestion or roadway inefficiencies, and to provide appropriate mitigation by adjusting signal timing and disseminating real time traveler information to provide alternate travel choices.

The City constructed its first TMC in 1990 to improve traffic flow conditions and to provide downtown event traffic management services, utilizing traffic management technologies available at the time. Many new advanced communication network and traffic management technologies have since evolved, allowing more data and video to be transmitted more efficiently, enabling multiple agencies to better coordinate traffic management services and resources at a regional level. As travel demands continue to grow in the region, San José led the implementation efforts for providing an integrated transportation management system for Santa Clara County, including a regional transportation management center to be operated by the City. To support the development and implementation of the TiMC, the Department of Transportation

(DOT) secured \$5,400,000 in Federal Earmark High Priority Program grant funds in June 2008. Architectural design services for the new TiMC were approved by Council on June 9, 2009. To complement the building/facility improvement work, consultant services for the TiMC system design and implementation is needed.

ANALYSIS

Implementation of the TiMC will require the integration or interconnect of many systems (video, communication, traffic management centers) with many agencies in the region and departments in the City. The magnitude of the design of these ITS systems is complex. The Federal Highways Administration (FHWA) has developed systems engineering guidelines for major ITS projects and has mandated that all federally funded ITS projects comply with these guidelines to assure project success, including provisions for minimizing schedule and cost overruns, and for meeting stakeholders and user needs.

To secure the services of a System Manager for the TiMC system design and implementation, DOT released a Request for Qualifications (RFQ) in September 2009. The selection process substantially followed the City's Qualifications Based Consultant Selection Policy. Six (6) consultant firms submitted a Statement of Qualifications (SOQ). After evaluation of the qualifications of each candidate, the four (4) most qualified firms were invited for an in-depth interview by a review panel consisting of representatives from DOT, the Police Department, FHWA, Caltrans, and the Valley Transportation Authority. Based on the consultant's staff experience, approach, and cost proposal, the review panel ranked Siemens Industry, Inc. the highest. A summary of the evaluation result is as follows:

<i>Criteria</i>	<i>Siemens</i>	<i>Delcan</i>	<i>DKS</i>	<i>Kimley-Horn</i>
Experience (45 points)	26.3	24.4	21.5	22.6
Project Approach (40 points)	24.0	20.9	19.6	21.2
Cost Proposal (15 points)	<u>10.2</u>	<u>12.1</u>	<u>15.0</u>	<u>11.3</u>
Total Points w/cost	60.5	57.4	56.1	55.1
Total Points w/o cost	50.3	45.3	41.1	43.8

Although cost is not a factor identified in the Qualification Based Consultant Selection (QBCS) policy adopted by Council in 2004 for the selection of architectural, engineering, environmental, land surveying, or construction management services, staff followed the Purchasing Division's RFQ template and included cost as a factor. However, the cost proposals were sealed and reviewed after the evaluation of the statement of qualifications. Therefore, the cost proposals did not influence the qualification evaluation. It also did not affect the ranking between Siemens Industry, Inc. and the next highest ranked candidate. Additionally, grant funding for this project did not allow for any local business and small business preferences.

The scope of the consultant services agreement includes developing a Systems Engineering Management Plan, Concept of Operations, system requirements, high level design, Request for Proposal specifications; managing system development and integration; and performing system testing and validation in accordance with the FHWA Systems Engineering guidelines. The consultant will also be responsible for collecting system and operational performance data for post-project evaluation, and for coordinating with the facility architect.

The new TiMC will be located on the ground floor of the City's Employee Garage in the previously designated 3,400 square feet of retail and office space along 5th Street. (Council approved using this space for the TiMC on October 16, 2007.) A portion of this space will include a technology training center for City staff.

Upon completion of the project in late 2013, City staff will be able to perform the following functions from the TiMC:

- Monitor traffic conditions of local and regional commute and transit corridors, and adjust signal timing to relieve traffic backups whenever necessary
- Address traffic congestion complaints or traffic signal malfunction inquiries in a timely manner
- Manage event parking and traffic needs around major activity centers
- Utilize parking guidance signs, smart parking meters, and smart streetlights management systems to address transportation mobility
- Reduce impacts of maintenance/construction activities on roadway users
- Coordinate with the Caltrans District 4 regional TMC to support emergency response and operations, including freeway incidents, traffic diversions and mass evacuation
- Communicate transportation related information to the media and the motoring public

EVALUATION AND FOLLOW-UP

No additional follow up action with Council is expected at this time.

PUBLIC OUTREACH/INTEREST

- Criterion 1:** Requires Council action on the use of public funds equal to \$1 million or greater; **(Required: Website Posting)**
- Criterion 2:** Adoption of a new or revised policy that may have implications for public health, safety, quality of life, or financial/economic vitality of the City. **(Required: E-mail and Website Posting)**
- Criterion 3:** Consideration of proposed changes to service delivery, programs, staffing that may have impacts to community services and have been identified by staff, Council or a Community group that requires special outreach. **(Required: E-mail, Website Posting, Community Meetings, Notice in appropriate newspapers)**

This memorandum will be posted on the City's website for the May 25, 2010 Council agenda.

COORDINATION

This agreement has been coordinated with the Information Technology Department, the Planning, Building and Code Enforcement Department, the City Attorney's Office, and the City Manager's Budget Office.

FISCAL/POLICY ALIGNMENT

This agreement is consistent with the Mayor's Expenditure Control Strategy and has a neutral impact on the General Fund. The approval of this agreement will also allow construction of a project that will have a beneficial impact to the economy of Silicon Valley.

COST SUMMARY/IMPLICATIONS

1. TOTAL AMOUNT OF RECOMMENDATION: \$997,700

2. COST OF AGREEMENT:

Coordination/Management	\$121,555
Planning	\$175,949
Design	\$261,460
Implementation	\$352,751
Operations & Maintenance Plan & Reporting	\$20,985
Contingency	<u>\$65,000</u>
Total Agreement Cost	\$997,700

3. SOURCE OF FUNDING: Fund 429 – Building and Structure Construction Tax Fund

4. FISCAL IMPACT: The proposed operating and maintenance costs of this project have been reviewed and will have no significant impact on the General Fund operating budget.

HONORABLE MAYOR AND CITY COUNCIL

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BUDGET REFERENCE

The table below identifies the fund and appropriation proposed to fund the agreement recommended as part of this memorandum.

Fund #	Appn #	Appn. Name	RC #	Total Appn.	Amt. for Contract	2009-2010 Adopted Capital Budget Page	Last Budget Action (Date, Ord. No.)
429	4407	ITS: Transportation Incident Management Center	124653	\$3,275,000	\$997,700	V-945	10/20/09; Ord. # 28653

CEQA

CEQA: PP02-07-193

Resolution No. 68905

/s/

HANS F. LARSEN

Acting Director of Transportation

For questions, please contact Lily Lim-Tsao, DOT Division Manager at (408) 975-3269.