



Memorandum

TO: HONORABLE MAYOR AND
CITY COUNCIL

FROM: James R. Helmer

**SUBJECT: AGREEMENT FOR SILICON
VALLEY-INTELLIGENT
TRANSPORTATION SYSTEM
INFRASTRUCTURE MASTER PLAN**

DATE: 03-10-04

Approved:

Date:

Council District: Citywide

SNI Area: Citywide

RECOMMENDATION

Approval of an agreement with ThirdWave Corporation for consultant services for the development of a Silicon Valley–Intelligent Transportation System Infrastructure Master Plan, for the period February 17, 2004 to December 30, 2004, in an amount not to exceed \$180,000.

BACKGROUND

In 1994, the Silicon Valley–Intelligent Transportation System (SV-ITS) Program was created in partnership with cities within Santa Clara County, the County of Santa Clara, the Valley Transportation Authority (VTA), the Metropolitan Transportation Commission (MTC), Caltrans, and the California Highway Patrol (CHP) to improve the efficiency and effectiveness of the region’s transportation network. Several Intelligent Transportation Systems projects funded by Federal and State grants have been implemented to support the delivery of coordinated transportation services aimed at relieving congestion related to recurring, incident, and event traffic. A wide-area fiber optic communications network that interconnects Transportation Management Centers (TMC’s) of San Jose, Campbell, Cupertino, Fremont, Milpitas, Santa Clara, Los Gatos, and the County of Santa Clara have been or will be implemented. This investment makes it possible to share real-time data among agencies, control of other agencies’ traffic control devices, and disseminate travel information to the public.

ANALYSIS

The current methodologies used for sharing data between the TMC’s were adopted in 1997 based on the technology available at that time and for their cost effectiveness. The SV-ITS

communication network has interconnected eight local agency TMC's, and has reached its capacity under the current deployment methodology.

In order to expand the Program to allow data sharing and service coordination with future partner agencies like Sunnyvale and Gilroy, or with public safety partners of the region, a new methodology that supports a more efficient use of the existing communication network is needed.

The SV-ITS Infrastructure Master Plan (IMP) will accomplish the following:

- Evaluate and recommend a new methodology that will create capacity within the existing fiber trunk
- Identify system expansion and integration opportunities based on stakeholders' business needs
- Develop an implementation plan to assure that future communication network investments support the above.

The IMP will be coordinated with other city and regional projects, such as the relocation of the City's Information Technology Department (ITD) Network Operations Center to the New Civic Center and the Silicon Valley Regional Interoperability Project.

Seven consulting firms responded to the request for qualification (RFQ) posted on the City's website in November 2003. Notices of the RFQ were also sent to those firms listed in the department's consultant mailing list. Three most responsive firms were invited for an in-depth interview by a review panel with representatives from the Departments of Transportation and Information Technology, the VTA, and the City of Fremont. Based on consultant's staff availability, expertise and approach, the review panel recommended ThirdWave Corporation.

It is recommended that the Council approve an agreement with ThirdWave Corporation, in the amount of \$180,000. Due to the Consultant's immediate need to coordinate with on-going projects of the City and the region, the agreement allows ThirdWave to perform project management and assessment of existing and planned infrastructure before the agreement is executed and only receive compensation if the City accepts and approves the services. The City Attorney's Office is in agreement of using this approach for timely completion of the project.

COORDINATION

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

COST IMPLICATIONS

In addition to the consultant services in an amount of \$180,000, an additional \$100,000 will be expended for the City's project management costs and procurement of a GIS-based asset management database, for a total project cost of \$280,000. This cost is fully reimbursable by Transportation Fund for Clean Air (TFCA) grant funds that were obtained for the project. 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 have a beneficial impact to the economy of San Jose.

The revenues and expenditures for this project are presented in the 2004-2008 Adopted Capital Budget, where they are contained in the ITS: Traffic Management Center line item, also referred to as the ITS: Traffic Incident Management Center.

BUDGET REFERENCE

Fund #	Appn #	Appn. Name	RC #	Total Appn.	Amt. For Contract	Adopted Budget Page	Last Budget Action (Date, Ord. No.)
429	4407	ITS: Traffic Incident Mgt Center	124640	\$811,000	\$180,000	Page 847	10/14/2003, Ord. No. 26997

CEQA

CEQA: Exempt, PP# "Not a Project"

JAMES R. HELMER
Director of Transportation