

Hayward, CA

Route 238 Advanced Traffic Management System & Corridor Improvements Projects



PROJECT OWNER:

City of Hayward

PROJECT DATE(S):

2009 - 2013

TJKM CLIENT REFERENCE:

Morad Fakhrai
City of Hayward
777 B Street
Hayward, CA 94541
(510) 583-4740
morad.fakhrai@hayward-ca.gov

TJKM FEE:

\$1M

PROJECT DESCRIPTION:

The City of Hayward was interested in an Advanced Traffic Management System (ATMS) for signal operations because traffic patterns and demands can change dramatically from day to day on Jackson Street, Mission Boulevard, and Foothill Boulevard. The primary reason for the change was due to recurring and non-recurring congestion on I-880, or SR 92, and on I-238 and I-580 that run through and surround the city. Because of the high traffic volumes on these freeways, accidents are common during both peak and off-peak hours.

TJKM evaluated the future conditions and provided recommendations for lane configurations at the study intersections, roadway segments, conversion of two-way streets into one-way streets, and off-peak parking lanes along the corridor. TJKM also prepared conceptual and PS&E for the recommended improvements.

As part of the corridor improvements for Route 238 in Hayward, TJKM also completed evaluation and design of an ATMS with adaptive traffic signal coordination and advance traveler information capabilities.

TJKM's services for the project included:

- **Systems Engineering** – Developed the ATMS functional requirements
- **Systems Engineering Management Plan** – Prepared Draft and Final Concept of Operations Reports
- **System/Subsystem Level Requirements** – Analyzed traffic detection and communications requirements
- Evaluated adaptive control traffic signal systems and selecting the system that most effectively met the City's signal system requirements
- Prepared PS&E for traffic signal modifications, signing and striping, detection, and fiber optic/copper signal interconnect at 28 intersections
- Prepared PS&E for an ATMS that included layout of the signal interconnect cable from the field traffic signal controller to the City's Traffic Management Center and design of the Traffic Management Center.

The design plans were completed on a fast-track schedule and the roadway improvements and signal modifications have been constructed. Beyond the Route 238 Corridor Improvements Project, the ATMS is expected to be extended to most corridors in the City in future phases.



VISION THAT MOVES YOUR COMMUNITY

