



**METROPOLITAN  
TRANSPORTATION  
COMMISSION**

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## *Memorandum*

TO: San Leandro City Council

DATE: August 19, 2014

FR: Metropolitan Transportation Commission (MTC) Staff

RE: I-880 Integrated Corridor Management (ICM) North Alameda Segment Project

The purpose of this memorandum is to provide preliminary information regarding proposed implementation of an arterial incident management strategy in the northern segment of the I-880 Corridor in the Cities of San Leandro and Oakland. MTC staff, in collaboration with San Leandro staff, will provide a future update to the City Council as the project progresses.

### **Background**

In March 2011, MTC, in partnership with the corridor's stakeholders, including Caltrans District 4, the Alameda County Transportation Commission and the Santa Clara Valley Transportation Authority, embarked upon an I-880 Integrated Corridor Management (ICM) Project. The goal of the I-880 ICM Project is to relieve congestion and improve safety by identifying how existing and planned Intelligent Transportation Systems (ITS) and operations can be better coordinated and integrated across networks and jurisdictional boundaries. As part of this effort, the project team identified a coordinated freeway and arterial incident management strategy as one of the initial projects for deployment within the northern segment of the I-880 Corridor.

The I-880 ICM North Alameda Segment Project is a collaborative effort by MTC, in partnership with Caltrans District 4, the Alameda County Transportation Commission (ACTC), City of San Leandro, City of Oakland and Alameda-Contra Costa Transit District (AC Transit) to develop an enhanced arterial incident management strategy for the I-880 Corridor.

The goal of the project is to identify, design, and implement ITS infrastructure to facilitate management of traffic that naturally diverts from the freeway due to major incidents on I-880. This project does not include installation of any signs or devices on the freeway, or any measures to actively divert traffic from the freeway to local streets.

### **Benefits to City of San Leandro**

The installation of integrated corridor management infrastructure is expected to provide the following benefits to the City of San Leandro:

1. Minimize impacts to the City when a major incident occurs on I-880.
  - a. Provide direction to motorists, using trailblazer signs, to preferred routes back to the freeway downstream of an incident on I-880.

- b. Improve traffic signal coordination to efficiently move traffic in response to a major incident or special event.
  - c. Reduce intrusion of motorists onto streets that are not suitable alternate routes to return traffic back to the freeway.
2. Provide enhanced tools for traffic management and data collection.
    - a. Install traffic detection devices (sensors and cameras) on arterial streets throughout the corridor.
    - b. Provide the City with the ability to develop incident management traffic signal timing templates for implementation when future incidents or events occur.
    - c. Install updated City traffic signal controller equipment and/or service enclosures as needed to meet technical requirements of the ICM system.
    - d. Provide a communication infrastructure throughout the corridor.
  3. Improved air quality through decreased motor vehicle emissions and fuel consumption.
    - a. Coordinate traffic signal systems between the Cities of San Leandro and Oakland to minimize traffic delays.
    - b. Implement traffic signal systems and timing plans that may be remotely adjusted to improve traffic flow due to an incident, special event or day-to-day recurrent congestion.

### **Project Description**

The project proposes to install ITS equipment on arterial streets along the I-880 Corridor in the Cities of San Leandro and Oakland (see Attachment A - Project Map). The project will utilize existing structures and infrastructure where feasible to install the equipment and minimize impacts to existing facilities and surrounding areas. Within the City of San Leandro limits, the project proposes to install the following, all within Caltrans right-of-way:

- 5 trailblazer signs (see Attachment B – Trailblazer Sign Examples)
- 4 closed-circuit television cameras
- 3 traffic detection stations
- 4 traffic signal controller cabinets
- Various communications improvements

This project builds on the Corridor System Management Plan (CSMP) for the I-880 Corridor and the Federal ICM Initiative, and is an important step toward providing an integrated ITS system along this corridor. The system will be compatible with other regional systems and corridors, including the I-80 ICM system and East Bay Bus Rapid Transit (BRT) Project.

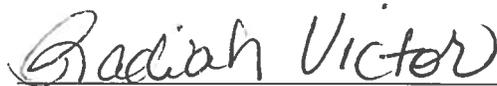
The maintenance and operations of the intelligent transportation systems installed by the project will be subject to the terms and conditions of future agreements between MTC, Caltrans and the Cities of Oakland and San Leandro. A Memorandum of Understanding (MOU) and maintenance plan will be developed prior to project construction.

**Schedule**

<u>Milestone</u>	<u>Completion Date</u>
Preliminary Design	October 2014
Draft MOU	Early 2015
Final Design	May 2015
Final MOU	Fall 2015
Begin Construction	Late 2015
Project Completion	Late 2016

**Recommendation**

This report is provided for information only. Staff looks forward to providing an update to the City Council at a future date.

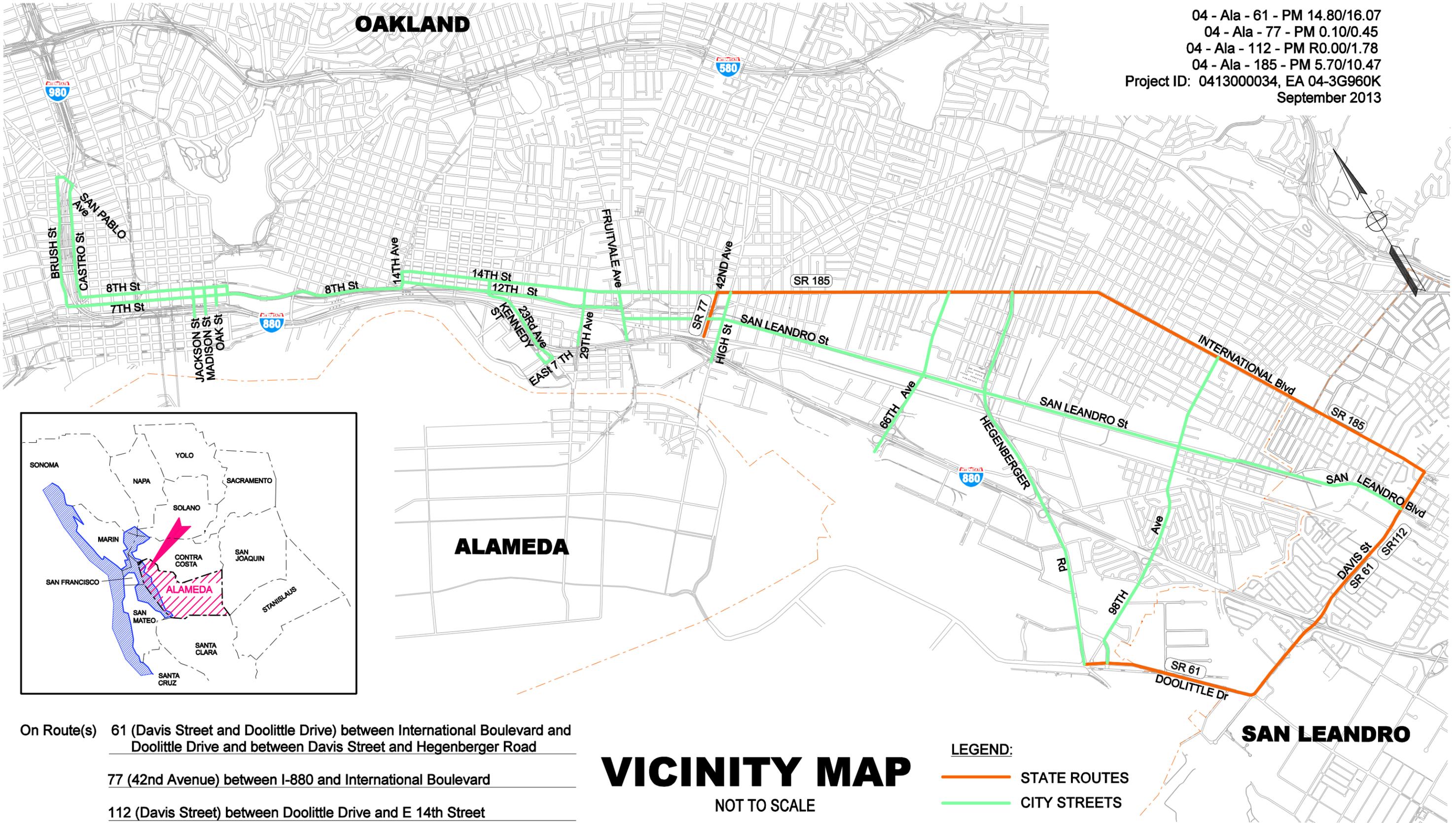


Radiah Victor, Principal  
Transportation Management and Coordination Unit

**Attachments**

- A. Project Map
- B. Example Trailblazer Sign Details

04 - Ala - 61 - PM 14.80/16.07  
 04 - Ala - 77 - PM 0.10/0.45  
 04 - Ala - 112 - PM R0.00/1.78  
 04 - Ala - 185 - PM 5.70/10.47  
 Project ID: 0413000034, EA 04-3G960K  
 September 2013



- On Route(s) 61 (Davis Street and Doolittle Drive) between International Boulevard and Doolittle Drive and between Davis Street and Hegenberger Road
- 77 (42nd Avenue) between I-880 and International Boulevard
- 112 (Davis Street) between Doolittle Drive and E 14th Street
- 185 (International Boulevard) between Davis Street and High Street

# VICINITY MAP

NOT TO SCALE

**LEGEND:**

- STATE ROUTES
- CITY STREETS

# Trailblazer Signs - Examples

