

Project Assessment Form for PM_{2.5} Interagency Consultation

Application of Criteria for a Project of Air Quality Concern

Project Title: Actuated Pedestrian/Bicycle Traffic Signal on Oak Grove Road at Sierra Road
Project Summary for Air Quality Conformity Task Force Meeting: TBD

Description

- Project will install a traffic signal on Oak Grove Road at Sierra Road for safe school children crossing on foot or on bicycle.
- No change to the number of vehicle lanes on Oak Grove Road; i.e., no additional vehicle capacity will be added to the roadway.
- Project will improve safety conditions for multi-modal transportation within the Monument Corridor in the City of Concord by improving pedestrian and bicycle safety when crossing Oak Grove Road at Sierra Road.
- A marked crosswalk will be installed on Oak Grove Road at Sierra Road in conjunction with the proposed traffic signal installation at this intersection.
- No bus stops will be relocated or added.
- This project should not create any additional trips by diesel-powered vehicles.

Background

- This project is funded through the Regional Safe Routes to School (SR2S) program and has been selected by the Contra Costa Transportation Authority and approved by the Metropolitan Transportation Commission.
- The environmental review process has not yet started, but will be completed with the funds designated for this project.

Not a Project of Air Quality Concern (40 CFR 93.123(b)(1))

(i) New or expanded highway projects with significant number/increase in diesel vehicles?

- Not a new or expanded highway project
- Safe Routes to School improvement — no additional vehicle lanes will be created on Oak Grove Road
- No anticipated change in traffic volumes, number of diesel vehicles, or diesel vehicle percentage of traffic on Oak Grove Road

(ii) Affects intersections at LOS D, E, or F with a significant number of diesel vehicles?

- Oak Grove Road is included as part of the City of Concord's designated truck route system (see attached "Truck Routes" map). As a local residential street, Sierra Road is not a part of the City's truck route network and hence there is no significant number of diesel vehicles that use this street (possibly limited to 2% of daily traffic volume).
- Currently, the intersection of Oak Grove Road/Sierra Road operates at LOS F in the AM peak hour and LOS D in the PM peak hour for the stop-sign controlled Sierra Road approach. This intersection will improve to LOS A both in the AM and PM peak hours with the implementation of the proposed traffic signal project.
- This project does not change land use and will not lead to an increase in traffic volumes or an increase in diesel vehicle number or percentage of daily traffic volumes on Oak Grove Road.

(iii) New bus and rail terminals and transfer points? — Not Applicable

(iv) Expanded bus and rail terminals and transfer points? — Not Applicable

(v) Affects areas identified in PM₁₀ or PM_{2.5} implementation plan as site of violation?

- The project does not affect areas identified in PM₁₀ or PM_{2.5} implementation plan as site of violation. Furthermore, the project area is not identified in the plan as an area of possible violation.

RTIP ID# <i>(required)</i> 240744				
TIP ID# <i>(required)</i> CC-130013				
Air Quality Conformity Task Force Consideration Date TBD				
Project Description <i>(clearly describe project)</i> This project will install an actuated Pedestrian/Bicycle Traffic Signal on Oak Grove Road at Sierra Road. Currently, there is a STOP sign controlling traffic flow on Sierra Road, and no traffic control or marked crosswalk(s) on Oak Grove Road at this intersection. Oak Grove Road is a designated Class 3 bike route with striped shoulders. School children (on foot or on bicycle) and other pedestrians cross Oak Grove Road at this location despite an apparent risk of potential conflict with speeding vehicles where the street curves in a back-to-back fashion (i.e., S-curve), hence limiting sight distance of pedestrians. Installation of a traffic signal at the Oak Grove Road/Sierra Road intersection is warranted based on traffic volumes as specified in the California MUTCD guidelines. The traffic signal installation will include an advance SIGNAL AHEAD warning system with flashing beacons in each direction of Oak Grove Road to account for the S-curve in the road.				
Type of Project: Safe Routes to School				
County CC	<i>Narrative Location/Route & Postmiles</i> City of Concord, CA Caltrans Projects – EA#			
Lead Agency:				
<i>Contact Person</i> Ray Kuzbari	<i>Phone#</i> (925) 671-3129	<i>Fax#</i> (925) 671-3381	<i>Email</i> ray.kuzbari@cityofconcord.org	
Federal Action for which Project-Level PM Conformity is Needed <i>(check appropriate box)</i>				
<i>Categorical Exclusion (NEPA)</i>	EA or Draft EIS	FONSI or Final EIS	PS&E or Construction	<input checked="" type="checkbox"/> <i>Other</i>
Scheduled Date of Federal Action:				
NEPA Delegation – Project Type <i>(check appropriate box)</i>				
<i>Exempt</i>	Section 6004 – Categorical Exemption		Section 6005 – Non-Categorical Exemption	
Current Programming Dates <i>(as appropriate)</i>				
	PE/Environmental	ENG	ROW	CON
Start	Jan 2014	Feb 2014	May 2014	May 2015
End	July 2014	Nov 2014	Nov 2014	Nov 2015
Project Purpose and Need (Summary): <i>(please be brief)</i> This project will improve school route safety in the area around Sierra Road in the City of Concord, by installing a traffic signal actuated crosswalk on Oak Grove Road at Sierra Road where school children cross the street on foot or on bicycle.				

Surrounding Land Use/Traffic Generators (especially effect on diesel traffic)

Residential and medical center in the immediate vicinity of the intersection; plus commercial, two elementary schools and other uses further out from the intersection.

Brief summary of assumptions and methodology used for conducting analysis

This project is focused on improving the safety of school children, bicyclists, pedestrians and transit users, as they cross Oak Grove Road at Sierra Road. The project involves no new or expanded highways and no change in traffic volume or truck percentages on Oak Grove Road or any other streets in the area. As shown below, no negative change in intersection LOS is expected as a result of this project. Additionally, the project should not lead to any increase in the number of diesel vehicles. As such, the criteria for a project of air quality concern should not apply to this project.

Opening Year: If facility is a highway or street, Build and No Build LOS, AADT, % and # trucks, truck AADT of proposed facility

Installation of the proposed traffic signal is expected to occur in Fiscal Year 2015-16. LOS at the affected intersection is summarized below:

<u>Intersection</u>	<u>AM Peak Hour</u>		<u>PM Peak Hour</u>	
	<u>No Build</u>	<u>Build</u>	<u>No Build</u>	<u>Build</u>
Oak Grove Road/Sierra Road	F	A	D	A

The ADT, truck ADT and % trucks are all listed below for both streets at this intersection. (The ADTs are also representative of AADTs.) Truck (or heavy vehicle) traffic on Sierra Road is limited to local deliveries, school buses, public utility vehicles, and refuse collection vehicles. Truck traffic represents up to 2% of the ADT on this street.

<u>Street</u>	<u>ADT</u>	<u>Truck ADT</u>	<u>% Trucks</u>
Oak Grove Road	20,030	600	3.0%
Sierra Road	1,200	25	2.0%

No change in the ADT, truck percentage or truck ADT is expected on Oak Grove Road or on Sierra Road as a result of the proposed project (Build scenario).

RTP Horizon Year / Design Year: If facility is a highway or street, Build and No Build LOS, AADT, % and # trucks, truck AADT of proposed facility

Year 2040 forecasts for LOS, ADT, Truck ADT and % Trucks are listed below. Turning movement/ADT forecasts are based on the Contra Costa Transportation Authority (CCTA) travel demand forecasting model. % Trucks is expected to remain unchanged from current levels.

<u>Intersection</u>	<u>AM Peak Hour</u>		<u>PM Peak Hour</u>	
	<u>No Build</u>	<u>Build</u>	<u>No Build</u>	<u>Build</u>
Oak Grove Road/Sierra Road	F	A	F	A

<u>Street</u>	<u>ADT</u>	<u>Truck ADT</u>	<u>% Trucks</u>
Oak Grove Road	24,900	750	3.0%
Sierra Road	1,200	25	2.0%

No change in the 2040 ADT, truck percentage or truck ADT is expected on Oak Grove Road or on Sierra Road as a result of the proposed project (Build scenario). Furthermore, traffic volumes on Sierra Road are not expected to increase from current levels because this is a local street in a built out residential area.

Opening Year: If facility is an interchange(s) or intersection(s), Build and No Build cross-street AADT, % and # trucks, truck AADT

N/A

RTP Horizon Year / Design Year: If facility is an interchange (s) or intersection(s), Build and No Build cross-street AADT, % and # trucks, truck AADT

N/A

Opening Year: If facility is a bus, rail or intermodal facility/terminal/transfer point, # of bus arrivals for Build and No Build, % and # of bus arrivals will be diesel buses

N/A

RTP Horizon Year / Design Year: If facility is a bus, rail or intermodal facility/terminal/transfer point, # of bus arrivals for Build and No Build, % and # of bus arrivals will be diesel buses

N/A

Describe potential traffic redistribution effects of congestion relief (*impact on other facilities*)

No redistribution of vehicular traffic is anticipated due to the implementation of the proposed project. As such, there should be no impact on other facilities as a result of this project.

Comments/Explanation/Details (please be brief)

We appreciate the Air Quality Conformity Task Force review of this project and hope that the project information provided in this Project Assessment Form and supplemental attachments are in sufficient level of detail to facilitate this PM_{2.5} Interagency Consultation.

The proposed project consists of signalization of the intersection of Oak Grove Road and Sierra Road, which may have triggered the need for the PM_{2.5} Interagency Consultation. Nonetheless, this project is not expected to create more congestion or increase the volume of diesel-powered vehicles on Oak Grove Road or on Sierra Road in the City of Concord. Therefore, no negative environmental or air quality impacts are anticipated as a result of this project. The project will significantly increase the safety and comfort of school children and multimodal users on Oak Grove Road without increasing the vehicular capacity of the roadway. This project is designed to improve the safety and movement of bicyclists, pedestrians and transit users.

Based on the project information provided in this report, we believe that it should not be considered a project of air quality concern and, therefore, should not be required to complete PM_{2.5} hot-spot analysis for project-level conformity determination.

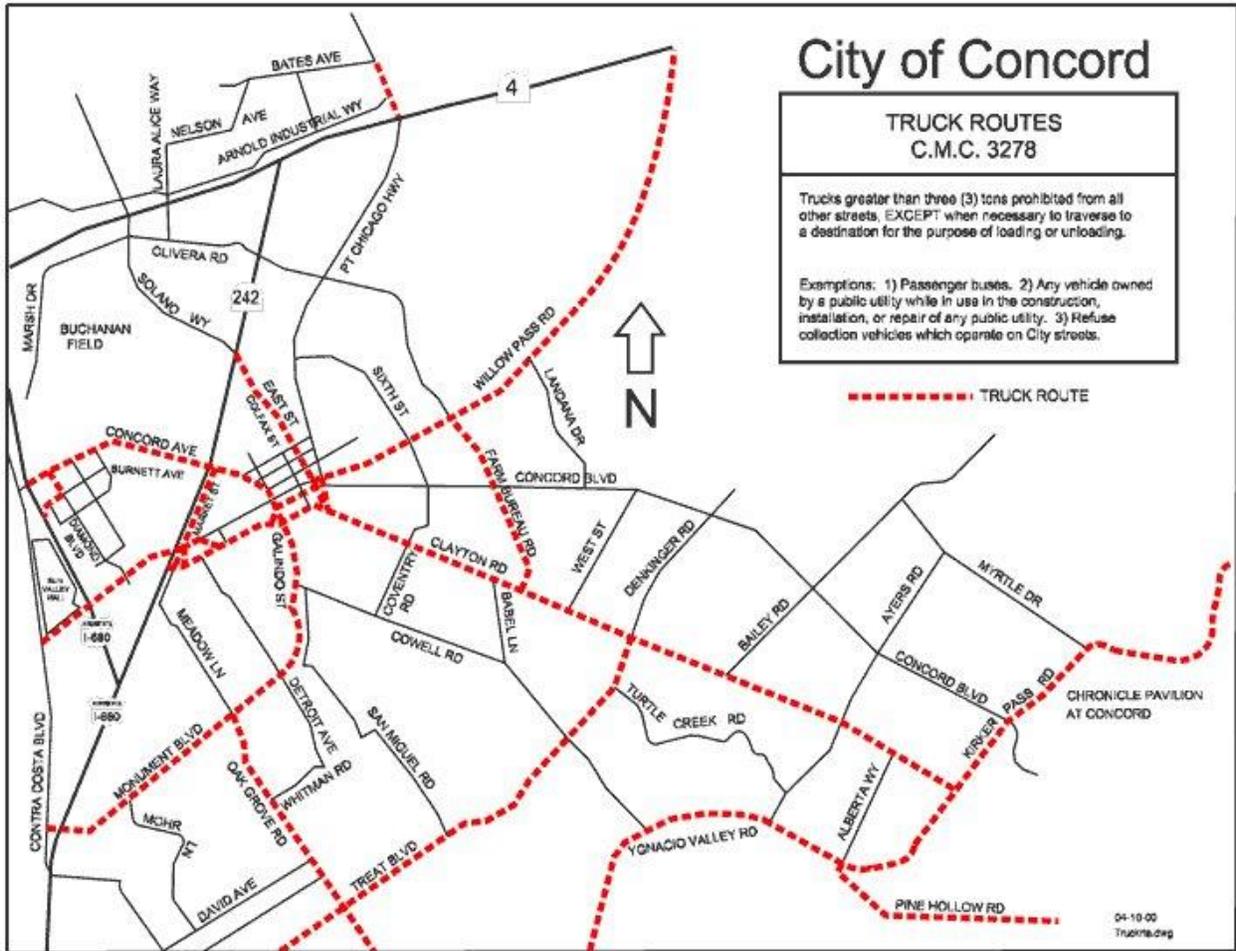
City of Concord

TRUCK ROUTES C.M.C. 3278

Trucks greater than three (3) tons prohibited from all other streets, EXCEPT when necessary to traverse to a destination for the purpose of loading or unloading.

Exemptions: 1) Passenger buses. 2) Any vehicle owned by a public utility while in use in the construction, installation, or repair of any public utility. 3) Refuse collection vehicles which operate on City streets.

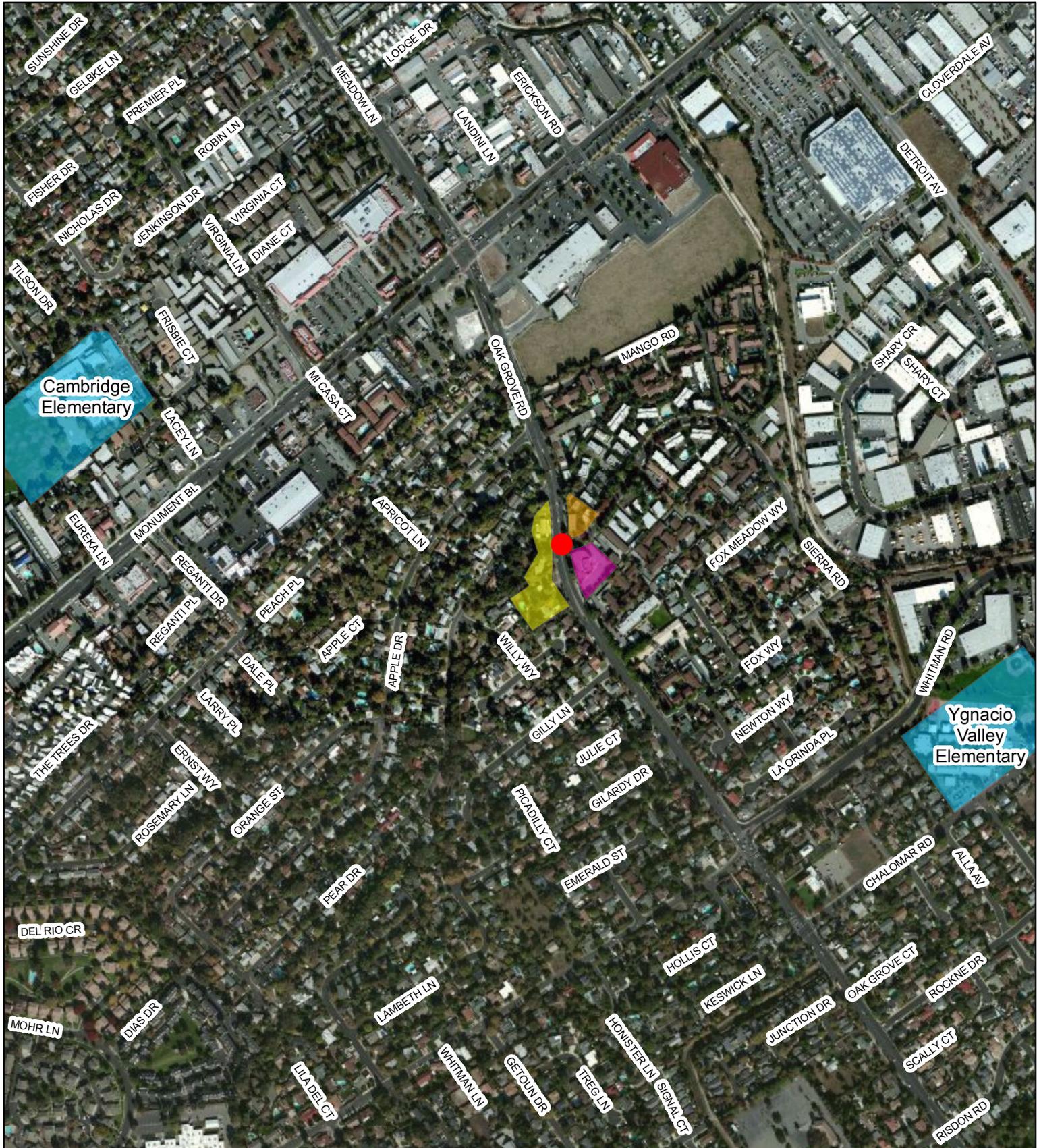
----- TRUCK ROUTE





Actuated Pedestrian/ Bicycle Traffic Signal on Oak Grove Rd. at Sierra Rd.

Surrounding Land Uses and Project Limits
CC-130013



Legend

Landuse: Zoning Categories Single Family Residential Residential, Medium Density School Community Office ● Project Limits