



**Final Report  
Grand Avenue Bike Lane Project  
City of Wildomar  
MSRC Contract No. ML16122**

**Prepared for the Mobile Source Air Pollution Review Committee  
(MSRC) under the AB 2766 Discretionary Fund Work Program**

**April 8, 2019**



## **DISCLAIMER:**

The statements and conclusions in this report are those of the contractor and not necessarily those of the Mobile Source Air Pollution Reduction Review Committee (MSRC) or the South Coast Air Quality Management District (SCAQMD). The mention of commercial products, their sources or their uses in connection with material reported is not to be construed as either an actual or implied endorsement of such products.

## **EXECUTIVE SUMMARY:**

The Wildomar Bike Lane Project created on-street Class II Bike Lanes along Grand Avenue from Corydon Road to Clinton Keith Road, and along Clinton Keith Road from Grand Avenue to George Avenue in the City of Wildomar. This is a total length of 5.3 miles of new bicycle facilities. The improvements included widening, restriping, and adding safety features along Grand Avenue and Clinton Keith Road.

## **RESULTS AND CONCLUSIONS:**

Clinton Keith Road has four to six travel lanes, two and three lanes in each direction. The posted speed limit along Clinton Keith Road within the project area is 35 to 45 miles per hour (mph). The majority of the Grand Avenue road segment has two travel lanes, one lane in each direction. The posted speed limit along Grand Avenue within the project area is 40 to 50 mph. There were no bike lanes along the project corridor. Similarly, Grand Avenue did not have bike lanes or continuous sidewalks. There were long sections of unpaved shoulders along Grand Avenue where vehicles parked.

Grand Avenue and Clinton Keith Road within the City of Wildomar serve as vital transportation routes by connecting local residents to schools, retail centers, markets, businesses, fire departments, hospitals, medical centers, and adjacent cities. The schools served along the route include Wildomar Elementary School, David A. Brown Middle School, and William Collier Elementary School. The route also connects to regional trails and parks such as Murrieta Creek Regional Trail, Regency Heritage Park, Marna O'Brien Park and the Grand Avenue Regional Trail. Please see attached project map.

The project installed bike lanes along these two segments of Grand Avenue and Clinton Keith Road, thereby closing a critical gap in the bicycle travel network in the area and providing access to the destinations listed above. The limits of the project are:

- a. Grand Avenue from Pasadena Street to Clinton Keith Road; and
- b. Clinton Keith Road from Grand Avenue to George Avenue

Please see attached photos documenting the completed project.



The new bicycle transportation facilities are anticipated to promote clean transportation by increasing non-motorized travel. Adding the bike lanes provides an alternative mode of transportation as well as an efficient route of travel for bicyclists to move within the City and connect with adjacent communities. The project also has a regional significance as it provides Wildomar's residents linkage to the Lake and the City of Lake Elsinore.

Intersections are often the most difficult areas to navigate for bicyclists since they encompass conflicting travel paths with motor vehicles. The project design gave special consideration to intersections and driveways and creative solutions were developed to bring motorists' attention to bicycle traffic, as well as design the most effective path for bicyclists through these areas. Bicycle pavement markings are striped on green background pads at intersections. Dashed bike lane striping approaching intersections has green squares the length of each dashed stripe and extending the width of the bike lane. These two features assure maximum visibility of the bike lanes.

At every intersection where an exclusive right turn lane is striped, a bike lane is striped to the left of it where through bicyclists can safely travel. Along the project corridor between intersections, a two-foot wide buffer is striped between the bike lane and motor travel lane to provide extra separation for bicyclists away from motor vehicles.

### **ISSUES ENCOUNTERED:**

As in every project, the Grand Avenue Bike Lane project faced challenges during the construction that the project design had not fully anticipated. One issue that came up during construction was drainage at a few locations. The project team immediately convened, assessed the issues and developed solutions that were successfully implemented in the field. Some minor grading issues also were encountered where solutions were developed to make some private driveway vertical profiles properly transition to the new grades of the widened roadways.

At some of the busier commercial driveways, the bicycle lane striping and how it interacts with the motor vehicle traffic was assessed in detail during construction and creative solutions were developed to result in the safest design.

### **COMMUNITY OUTREACH:**

The City of Wildomar carried out a robust community outreach campaign to inform residents of the project and engage them in being part of its development. The City held a well publicized public workshop as the project design was starting. At the workshop, City staff explained the project in detail and engaged the residents to provide input on the proposed improvements. The City also sent out a mailer to all the residents and businesses along the project route, as well as the Chamber of Commerce, and the



schools within the vicinity prior to construction. Project signs were posted during the construction with pertinent information about the project.

For additional information or questions, please contact: Sudi Shoja, PE

[sshoja@cityofwildomar.org](mailto:sshoja@cityofwildomar.org)

#### Letter of Certification

This letter certifies that the City of Wildomar is proceeding with construction that is being partially funded through the above-mentioned AB2766 Discretionary Fund Contract.

A handwritten signature in blue ink, appearing to be "Dan York", written over a horizontal line.

Dan York, PE

Assistant City Manager/Public Works Director

4/8/2019

Date



## STANDARD PHOTO RELEASE FORM

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I do not intend to waive any other rights to the reprint or representation or distribution of these materials and reserve said rights.

If I require copyright attribution, I will provide notice of such copyright to AQMD/MSRC at the time this authorization is executed.

I am empowered by and on behalf of the entity herein to consent and authorize the above-specified.

  
\_\_\_\_\_  
Authorized Signature

CITY OF WILDOMAR  
\_\_\_\_\_  
Organization

Assist. City Manager  
\_\_\_\_\_  
Title

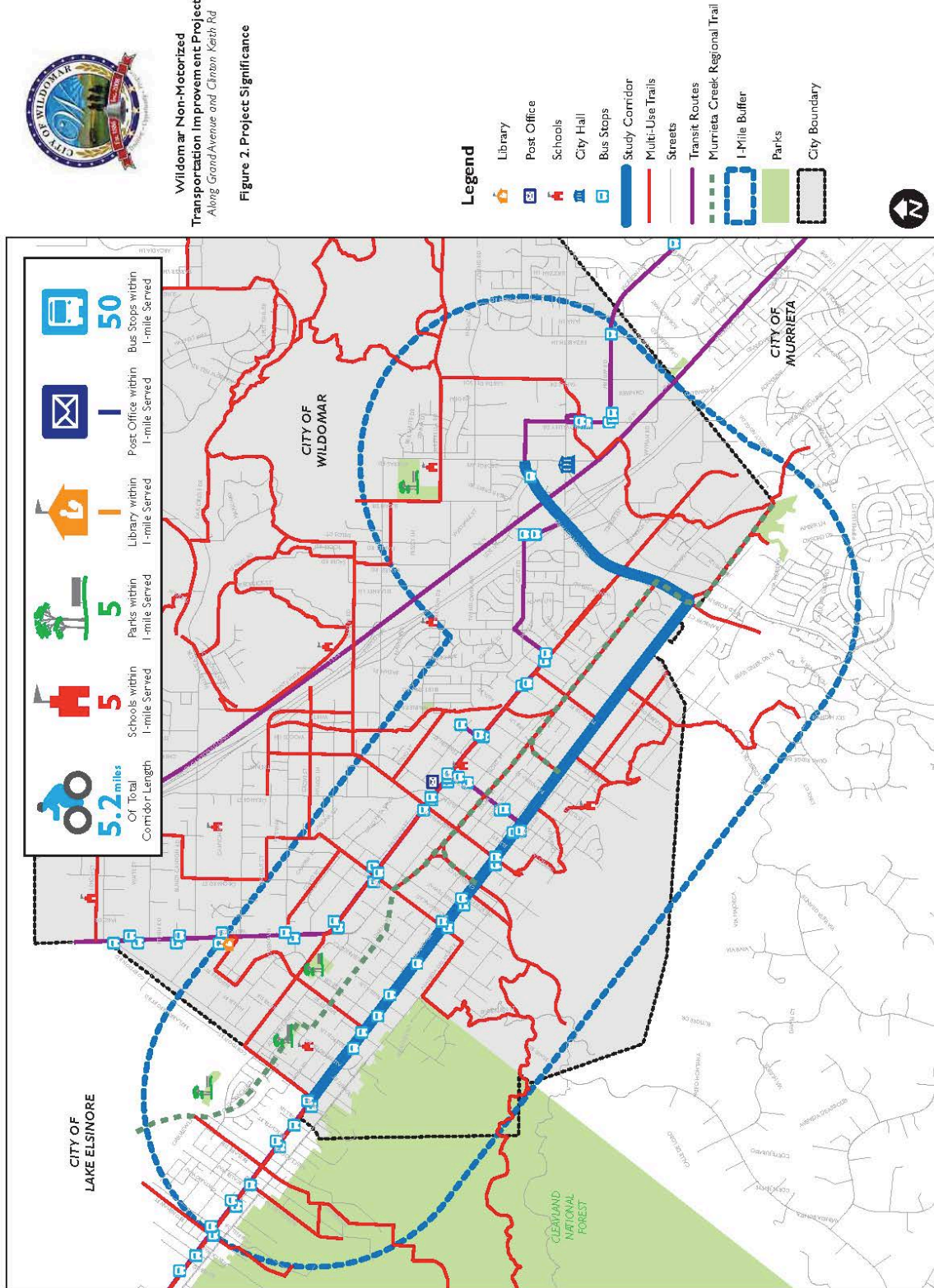
April 8, 2019  
\_\_\_\_\_  
Date





**Wildomar Non-Motorized  
Transportation Improvement Project**  
*Along Grand Avenue and Chino Keith Rd*

**Figure 2. Project Significance**





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Grand Ave Bike Lane Project – Final Report







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