

## Application of Criteria for a Project of Air Quality Concern

**Project Title: Golf Club Road/Old Quarry Road Improvement Project (City of Pleasant Hill)**

### Project Summary for Air Quality Conformity Task Force Meeting

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#### Description

- Project will construct complete street enhancements along Golf Club Road and Old Quarry Road.
- Project will construct bicycle and pedestrian facilities along entire length of Golf Club Road and Old Quarry Road within the project limit.
- Project will include installation of new roundabout at Old Quarry Road/Camelback Road intersection, including a road diet along Old Quarry Road to facilitate roundabout installation.
- Project includes installation of new landscaping and street lighting along Golf Club Road and Old Quarry Road within the project limit.

#### Background

- NEPA review in process at Caltrans Local Assistance Office (field review conducted in August 2014).
- Seeking air quality conformity determination.
- Schedule based on deadline for OBAG funding allocation (October 2015).

#### 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
- Project will not add new vehicle lanes or result in increase in diesel vehicles.
- Project elements will mainly construct multi-modal enhancements (e.g. sidewalk and bike lane facilities) within project limit.

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

- Trucks and buses represent 2% of intersection traffic volume
- No Intersections at LOS D, E, or F within project limit with proposed project elements (including roundabout and road diet). LOS generally unchanged with project elements.
- No project changes to land use that would affect diesel traffic percentage.

##### *(iii) New bus and rail terminals and transfer points?*

- Project adjacent to existing bus transit center, but project will not modify transit center facilities or access points.

##### *(iv) Expanded bus and rail terminals and transfer points?*

- Not Applicable.

##### *(v) Affects areas identified in PM<sub>10</sub> or PM<sub>2.5</sub> implementation plan as site of violation?*

- Project area not identified in plan as an area of potential violation.
- No PM<sub>10</sub> or PM<sub>2.5</sub> violations near project area.

**Project Assessment Form for PM<sub>2.5</sub> Interagency Consultation**

<b>RTIP ID# (required)</b> CC-130005									
<b>TIP ID# (required)</b> CC-130005									
<b>Air Quality Conformity Task Force Consideration Date</b> TBD									
<b>Project Description (clearly describe project)</b> Project will construct complete street improvements along Golf Club Road (between Stubbs Road to the west and 300 feet east of Old Quarry Road) and Old Quarry Road. Improvements within the project limit include new pedestrian sidewalk, bike lanes, LED street lights, and landscaping. Project will also replace existing traffic signal at Golf Club Road/Old Quarry Road intersection, install a new traffic signal at Golf Club Road/Stubbs Road, and replace the existing 4-way STOP control with a roundabout at Old Quarry Road/Camelback Road intersection. A road diet along Old Quarry Road is anticipated to accommodate the new roundabout installation at Camelback Road intersection.									
<b>Type of Project:</b> Intersection Signalization, Change to Existing Regionally Significant Street <i>Pick one project type:</i> New State highway, Change to existing State highway, New regionally significant street, Change to existing regionally significant street, New interchange, Reconfigure existing interchange, Intersection Channelization, Intersection signalization, Roadway realignment, Bus, rail or intermodal facility/terminal/transfer point, Truck weight/inspection station									
<b>County</b> Contra Costa County	<b>Narrative Location/Route &amp; Postmiles</b> Golf Club Road (between Stubbs Road to the west and 300 feet east of Old Quarry Road to the east). Old Quarry Road between Golf Club Road and Chilpancingo Parkway.  <b>Caltrans Projects – EA#</b>								
<b>Lead Agency:</b> City of Pleasant Hill									
<b>Contact Person</b> Eric Hu, Associate Engineer	<b>Phone#</b> (925) 671-5203	<b>Fax#</b> (925) 676-1125	<b>Email</b> ehu@ci.pleasant-hill.ca.us						
<b>Federal Action for which Project-Level PM Conformity is Needed (check appropriate box)</b>									
<input checked="" type="checkbox"/>	Categorical Exclusion (NEPA)	<input type="checkbox"/>	EA or Draft EIS	<input type="checkbox"/>	FONSI or Final EIS	<input checked="" type="checkbox"/>	PS&E or Construction	<input type="checkbox"/>	Other
<b>Scheduled Date of Federal Action:</b>									
<b>NEPA Delegation – Project Type (check appropriate box) (TO BE DETERMINED)</b>									
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Exempt		Section 6004 – Categorical Exemption		Section 6005 – Non-Categorical Exemption					
<b>Current Programming Dates (as appropriate)</b>									
	<b>PE/Environmental</b>	<b>ENG</b>	<b>ROW</b>	<b>CON</b>					
<b>Start</b>	August 2014	November 2014		March 2016					
<b>End</b>	September 2015	November 2015		November 2016					

## PM<sub>2.5</sub> Project Assessment Form for Interagency Consultation

### **Project Purpose and Need (Summary):** *(please be brief)*

The purpose of the project is to construct complete street enhancements along Golf Club Road and Old Quarry Road within the project limit, to provide logical and complete pedestrian and bicycle facilities along the Golf Club Road and Old Quarry Road corridors, and construct traffic control devices at various key intersections (e.g. Golf Club Road/Stubbs Road, Golf Club Road/Old Quarry Road, and Old Quarry Road/Camelback Road) to manage the projected traffic from the adjacent Diablo Valley College (DVC) campus and DVC Plaza Priority Development Area (PDA). The proposed improvements will also connect students between their residents (to the north) and the DVC Transit Center on DVC campus.

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

The project is located adjacent to the DVC campus, which is a major regional community college for Contra Costa County. The DVC campus generates on the average of 8,000-9,000 passenger vehicle trips daily. On campus is the DVC Transit Center, a regional hub for various County Connection transit bus lines in the area to the various Central Contra Costa County BART stations. The majority of the County Connection buses are hybrid, which is significantly cleaner than their full diesel counterparts. Lastly, the project is located adjacent to the DVC Plaza PDA, which is currently operating at 20% occupancy.

### **Brief summary of assumptions and methodology used for conducting analysis** *(please keep this concise – specifics may include date of when traffic counts were conducted, studies where truck percentages were derived)*

The most recent traffic counts/studies in the area were done during the DVC Transit Center design phase in 2009, for which turning movement counts, ADT counts, and Level of Service analysis were done for the various intersections within the project limit. Golf Club Road is shown to have an ADT of 14,215 vehicles, and Old Quarry Road is measured to have an ADT of 7,820 vehicles. Truck/bus percentages were measured to be 2% of the ADT.

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

Currently Golf Club Road has an ADT of 14,215 vehicles, and Old Quarry Road has an ADT of 7,820 vehicles. Truck/bus percentage is at 2% of ADT for both roadways. The project is not expected to result in any changes to the ADT along both roadways. LOS analysis shows that there is no change in LOS at the various intersections along Old Quarry Road as a result of the proposed road diet or roundabout (see attached LOS summary table).

### **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**

Currently the City estimates an overall increase in traffic volume along Golf Club Road and Old Quarry Road by 15% over the next 20 years (2035 design year), primarily due to the future redevelopment of the nearby DVC Plaza. This result in a design ADT of 16,350 for Golf Club Road and 9,000 for Old Quarry Road.

## Project Assessment Form for PM<sub>2.5</sub> Interagency Consultation

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

See above for roadway traffic data section.

**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**

See above for roadway traffic data section.

**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**

The proposed project will have no change in the overall number of buses traversing along Golf Club Road or Old Quarry Road.

**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**

The proposed project will have no change in the overall number of buses traversing along Golf Club Road or Old Quarry Road.

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

The proposed project is expected to have a number of traffic congestion improvements along Golf Club Road and Old Quarry Road within the project limit. The new traffic signals and intersection geometry modifications (e.g. lengthening of existing turn pockets) will greatly improve traffic efficiency, and the new roundabout at Old Quarry Road will virtually eliminate any traffic queuing that is currently caused by the 4-way STOP control. The new bike lanes/pedestrian facilities will also encourage additional use of alternative modes of transportation, resulting in less vehicle trips generated by residents in the area. A road diet along Old Quarry Road may be necessary to facilitate the installation of the roundabout, reducing the existing 4-lane roadway to 2-lanes (one lane each direction), but given the efficiency of the roundabout and a lack of lane reduction at the various signalized intersections, preliminary traffic analysis shows that a road diet will not have an adverse effect on the overall operation and performance level along Old Quarry Road. The road diet will also allow the implementation of wider bike lanes along the roadway, which is also highly beneficial given the high number of bicycle traffic along Old Quarry Road.

**Comments/Explanation/Details (*please be brief*)**

Overall the project intent is to better utilize the existing roadway width to balance the overall needs of pedestrians, cyclists, and vehicle traffic along Golf Club Road and Old Quarry Road near DVC campus and DVC Plaza. With the exception of the future redevelopment of DVC Plaza, the City is completely built out in the general area around DVC campus, and the proposed project is not expected to change the traffic volume along either Golf Club Road or Old Quarry Road. DVC enrollment is relatively stagnant in the near future, and the campus is a state of renovation rather than expansion. The relatively high number of student population living near the campus (to the north), the proximity to the DVC Transit Center, and the nearby regional shopping centers leads the City to believe that the proposed project will greatly promote alternative modes of transportation among the student population, which will indirectly improve traffic circulation and air quality in the project area.

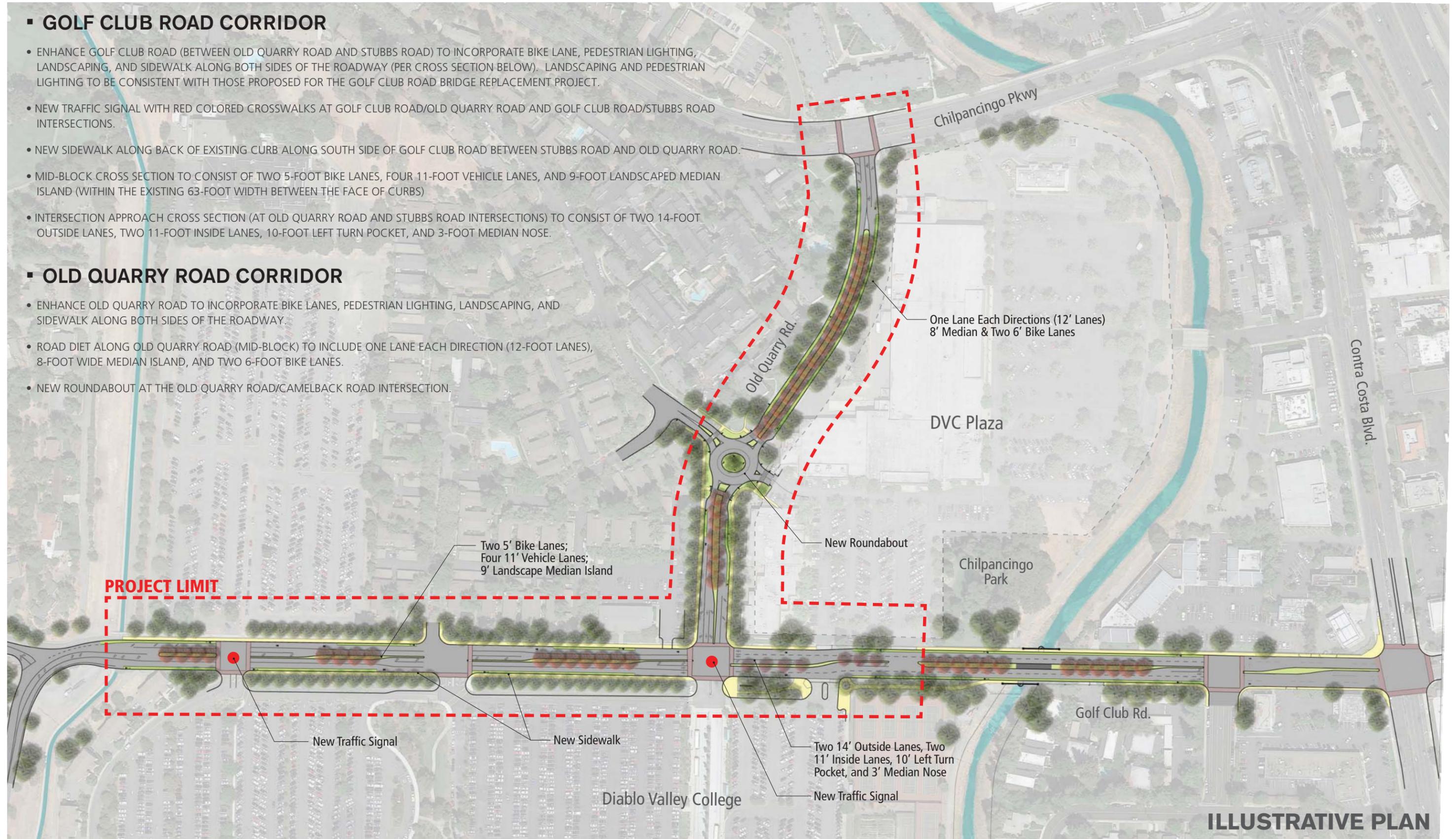
# PROJECT SCOPE

## ▪ GOLF CLUB ROAD CORRIDOR

- ENHANCE GOLF CLUB ROAD (BETWEEN OLD QUARRY ROAD AND STUBBS ROAD) TO INCORPORATE BIKE LANE, PEDESTRIAN LIGHTING, LANDSCAPING, AND SIDEWALK ALONG BOTH SIDES OF THE ROADWAY (PER CROSS SECTION BELOW). LANDSCAPING AND PEDESTRIAN LIGHTING TO BE CONSISTENT WITH THOSE PROPOSED FOR THE GOLF CLUB ROAD BRIDGE REPLACEMENT PROJECT.
- NEW TRAFFIC SIGNAL WITH RED COLORED CROSSWALKS AT GOLF CLUB ROAD/OLD QUARRY ROAD AND GOLF CLUB ROAD/STUBBS ROAD INTERSECTIONS.
- NEW SIDEWALK ALONG BACK OF EXISTING CURB ALONG SOUTH SIDE OF GOLF CLUB ROAD BETWEEN STUBBS ROAD AND OLD QUARRY ROAD.
- MID-BLOCK CROSS SECTION TO CONSIST OF TWO 5-FOOT BIKE LANES, FOUR 11-FOOT VEHICLE LANES, AND 9-FOOT LANDSCAPED MEDIAN ISLAND (WITHIN THE EXISTING 63-FOOT WIDTH BETWEEN THE FACE OF CURBS)
- INTERSECTION APPROACH CROSS SECTION (AT OLD QUARRY ROAD AND STUBBS ROAD INTERSECTIONS) TO CONSIST OF TWO 14-FOOT OUTSIDE LANES, TWO 11-FOOT INSIDE LANES, 10-FOOT LEFT TURN POCKET, AND 3-FOOT MEDIAN NOSE.

## ▪ OLD QUARRY ROAD CORRIDOR

- ENHANCE OLD QUARRY ROAD TO INCORPORATE BIKE LANES, PEDESTRIAN LIGHTING, LANDSCAPING, AND SIDEWALK ALONG BOTH SIDES OF THE ROADWAY.
- ROAD DIET ALONG OLD QUARRY ROAD (MID-BLOCK) TO INCLUDE ONE LANE EACH DIRECTION (12-FOOT LANES), 8-FOOT WIDE MEDIAN ISLAND, AND TWO 6-FOOT BIKE LANES.
- NEW ROUNDABOUT AT THE OLD QUARRY ROAD/CAMELBACK ROAD INTERSECTION.

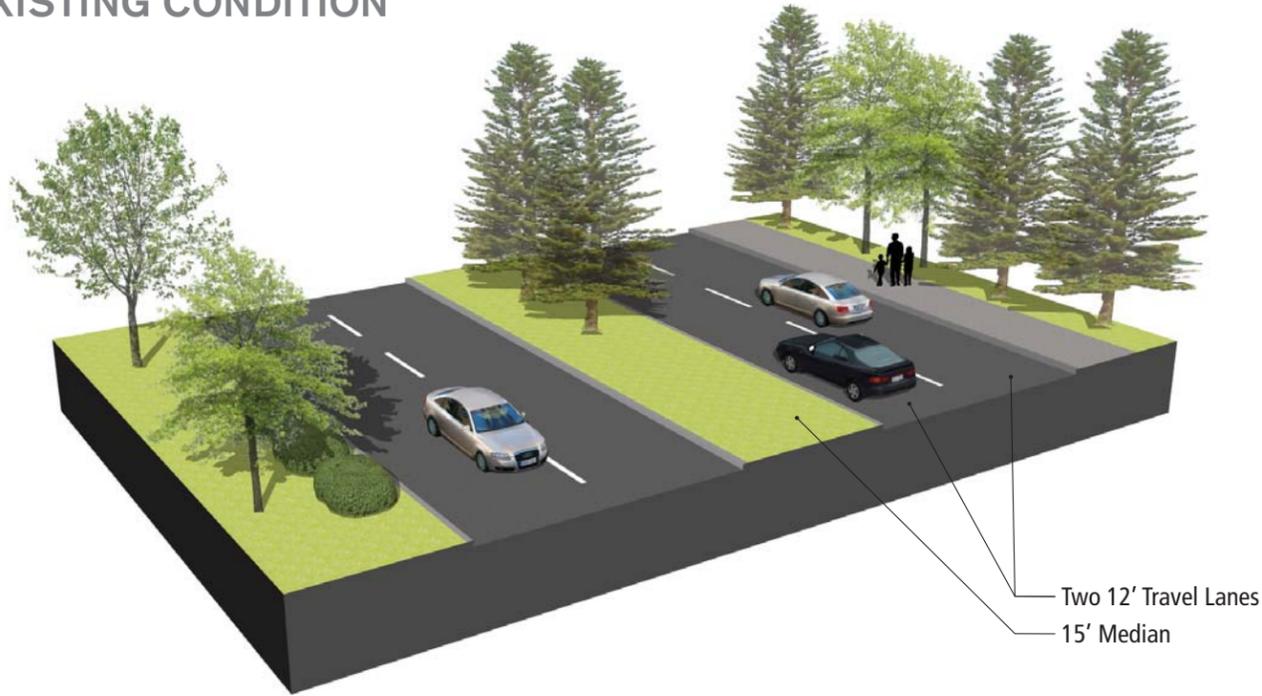


**ILLUSTRATIVE PLAN**

GOLF CLUB ROAD /OLD QUARRY ROAD PROJECT

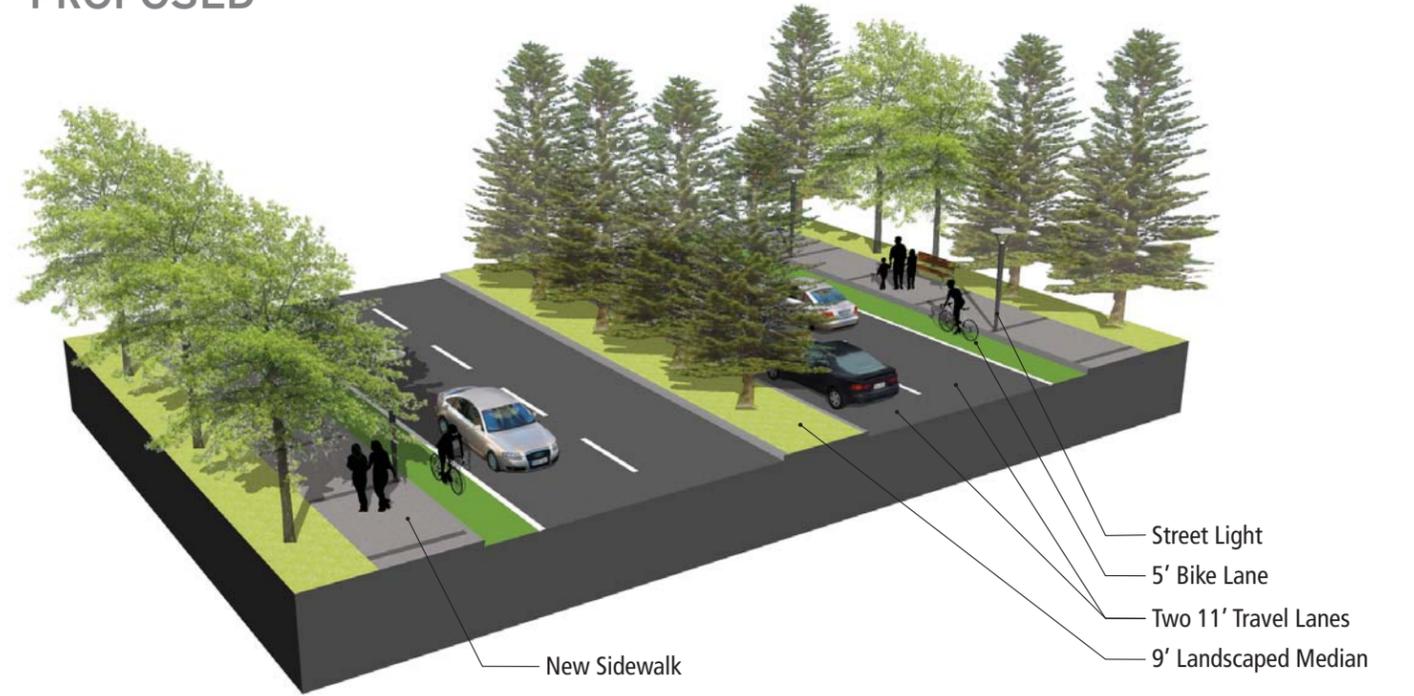
# GOLF CLUB ROAD

EXISTING CONDITION



Two 12' Travel Lanes  
15' Median

PROPOSED



New Sidewalk  
Street Light  
5' Bike Lane  
Two 11' Travel Lanes  
9' Landscaped Median

# OLD QUARRY ROAD

EXISTING CONDITION



Camelback Road  
Chilpancingo Parkway  
Golf Club Road

PROPOSED



Proposed Roundabout  
Pedestrian Lighting, Typ.  
Pedestrian Crossing  
6' Bike Lane

## GOLF CLUB ROAD/OLD QUARRY ROAD CORRIDOR LOS ANALYSIS

Intersection	No Project (Existing Condition)				With Project (w/ Roundabout & Road Diet)			
	AM		PM		AM		PM	
	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS
Golf Club Road/Old Quarry Road	35.1	D	15.7	B	35.2	D	15.6	B
Camelback/Old Quarry Road (Roundabout Site)	26.7	D	12.6	B	21.0	C	8.3	A
Chilpancingo/Old Quarry Road	30.7	C	17.5	B	27.1	C	21.6	C

**TRAFFIC VOLUME ADT SUMMARY**

	<b>Current ADT (2009)</b>	<b>Future Projected ADT (2035)</b>	<b>Truck %</b>
<b>Golf Club Road</b>	14,215	16,350	2%
<b>Old Quarry Road</b>	7,820	9,000	2%