

Alpine Road Corridor Study Project

Community Meeting
November 1st, 2016

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Joe Lo Coco – County of San Mateo Adam Dankberg – Kimley-Horn Eileen Goodwin – Apex Strategies



Agenda

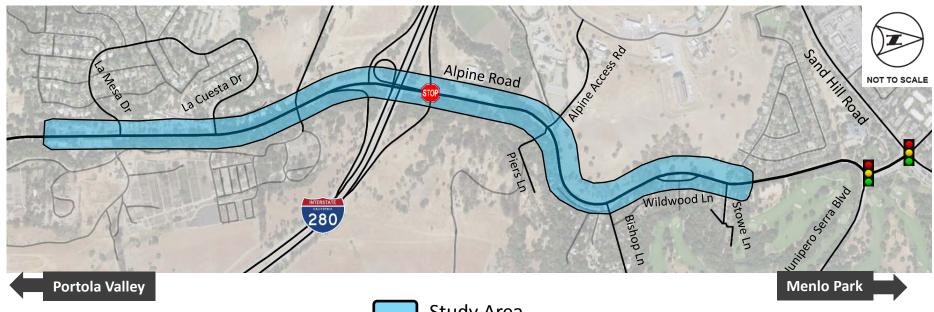
- Presentation (45 min)
 - Project Overview
 - Feedback received during and after previous meeting
 - Proposed Improvements
 - Other Improvements Considered
- Breakout Session (30 min)
- Q&A (15 min+)



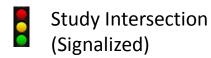


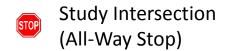


Project Corridor



Study Area







Background

- Approximately 25,000 vehicles/day on north side of I-280
- Lengthy backups approaching I-280 in southbound direction in afternoon/evening
- Difficult to access corridor due to heavy volumes and limited sight distance
- Heavily utilized bicycle corridor (greater than 800 per day on weekends)
- Corridor is greatly constrained by steep slopes, limited right-of-way and Los Trancos/San Francisquito Creek



Community Meeting #1

- Meeting held January 21, 2016 with approximately 100 attendees
- 146 responses to online feedback form









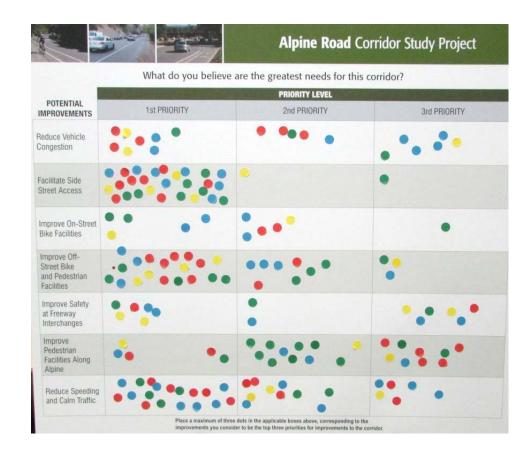




Community Priorities

(Community Meeting #1)

- Facilitate Side-Street Access
- Reduce Speeding and Calm Traffic
- 3. Improve Off-Street Path







Community Meeting #2

- Meeting held May 9, 2016 with approximately 75 attendees
- 58 additional responses to online feedback form/via e-mail









Community Feedback (Community Meeting #2)

- Strongest support for:
 - Minor signage & striping improvements to lower speeds, increase bicycle & pedestrian safety
 - Roundabouts at La Mesa and La Cuesta Drive
 - Path widening in Ladera area
 - Roundabouts at I-280 ramps
 - Consolidating access to Wildwood Lane to one driveway
 - Extension of multi-use path north of Stowe Lane



Community Feedback (Community Meeting #2)

Opposition to:

- Signals at La Mesa & La Cuesta Drive
- Paved parking/path area on Bishop Lane
- Mixed opinions:
 - Signals at I-280 ramps
 - Striped parking area at Stanford Dish trail entrance
- Other concerns:
 - Cyclists navigating roundabouts



Development of Improvements

- Improve traffic operations and safety
- Support safe and efficient bicycle, pedestrian, and transit facilities
- Street aesthetic
- Implementable
 - Reasonably expected project budget
 - Consistent with requirements of MUTCD, AASHTO, County standards
 - Minimize or avoid potential environmental impacts
- Methodology
 - Site Visits
 - Traffic Analysis
 - Conceptual design
 - Community Feedback





Improvement Phases

- Improvements refined and selected for further evaluation based on analysis & community feedback
- Phase 1
 - Near-term improvements
 - Signage, striping, and other minor improvements
- Phase 2
 - Longer-term improvements
 - Intersection modifications (e.g. signals, roundabouts)
 - Additional pavement (e.g. turn lanes, bike buffers)
- Alternate Improvements for Phase 2
 - Longer-term improvements that are alternatives to some Phase 2 improvements











Phase 1 Improvements





Corridor-Wide

Reduce speed limit to a consistent 35 MPH throughout corridor







Ladera Area Improvements

- Shift crosswalk south of La Mesa Drive
- Install lighting & pedestrian-activated flashing beacons at crosswalks at Ladera Oaks, La Mesa, and La Cuesta
- Install speed feedback signs



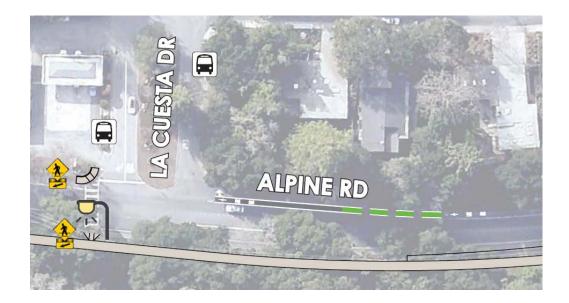




Kimley » Horn

Ladera Area Improvements

- Widen off-street path on east side of Alpine Road south of I-280 to 8 feet where feasible
- Bike slots at intersections and green paint in conflict areas







I-280 Interchange Improvements

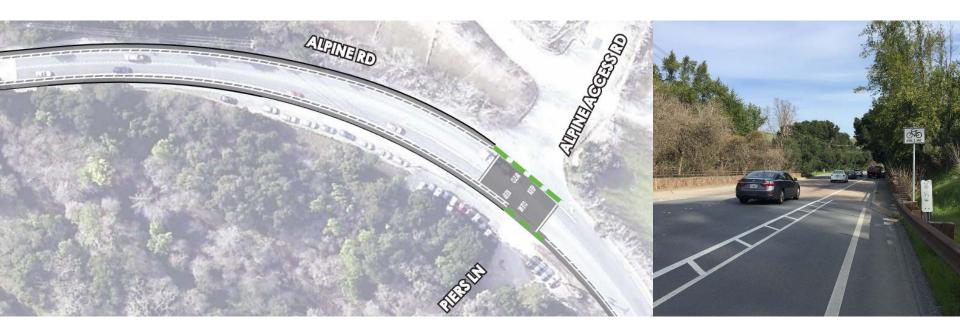
• All I-280 interchange improvements are in phase 2.





Piers Lane Improvements

- Extend buffered bike lane north of I-280 interchange
- "Keep Clear" zones at Piers Lane







Extend guardrail towards Piers Lane by 100+ feet









- Install speed feedback signs
- "Keep Clear" zones at Stowe, Wildwood, and Bishop Lanes
- Green paint for bike lanes in conflict zones







 Shift roadway striping to widen bike lane to 5' near Stowe Lane







Phase 2 Improvements



Ladera Area Improvements

- Buffered bike lanes between La Cuesta Drive and I-280 interchange
- Right-out only shopping center driveway closed

Restrict exit-only driveway at Shell station to fuel

delivery trucks only









Ladera Area Improvements

Roundabouts at La Mesa & La Cuesta









Ladera Area Alternate Improvement

- Add Turn Lanes on La Cuesta Drive
 - Requires narrowing of existing median on La Cuesta, but will not affect any trees or monument sign

Existing



Proposed





I-280 Interchange Improvements

- Signals at northbound & southbound ramp intersections
- Remove free right turns from off-ramps to Alpine Road
- Remove free southbound on-ramp from northbound Alpine Road to southbound 280
- Extend northbound ramp merging area



Interchange Area Alternate Improvement

Roundabouts at I-280 ramps



Comparison of I-280 Solutions

	Signalization	Roundabouts
Auto Traffic	 Highest capacity and largest reduction in delay Projected to handle future demands 	Large reduction in delayApproaches capacity in future
Bicycles	Delineated bike lanesMay have higher vehicle speeds	 Options provided for both recreational and commute cyclists but with less control at conflict points
Benefits for Side- Street Access	 Significantly reduces delay for side-streets Creates vehicle platoons with each signal cycle 	 Reduces delay for side-streets Does not create platoons (constant flow of traffic)
Cost	• \$1 Million - \$2 Million	• \$8 Million - \$12 Million

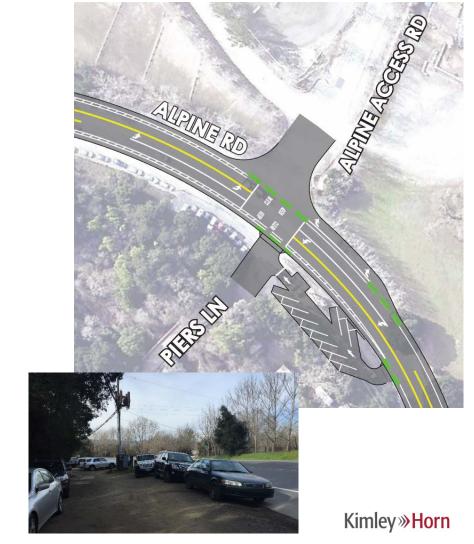


Further study on signalization vs. roundabout required. Decision to be made in coordination with Caltrans.

Kimley Horn

Piers Lane Improvements

- Modify Dish trail/Piers Lane parking lot on County right-of-way
- Coordinate with Stanford on Dish Trail parking adjacent to their right-of-way
- Provide 150' westbound left-turn pocket at Piers Lane
- Lengthen existing turn pockets at Alpine Access







 Lengthen turn pockets and acceleration lanes at Bishop Lane





 Consolidate access to one Wildwood Lane driveway and provide a center turn lane





Stanford Weekend Acres Area Alternate Improvement

- Center-turn lane at Wildwood Lane
 - No consolidated driveway access





- Improve northbound bus stop at Stowe Lane
 - Will improve bus access, passenger comfort, and thus may benefit ridership
- Lengthen left-turn pocket to Stowe Lane
- Off-street path extension adjacent to Alpine Road to Stowe Lane







- Highly requested improvement: "Keep Clear" zones at SWA intersections
 - "Keep Clear" zones now included in Phase 1 improvements





- Install signals at Stanford Weekend Acres intersections (Stowe, Wildwood, or Bishop)
 - Does not meet signal warrants
- Update on signal improvements at Junipero Serra Boulevard/Santa Cruz Avenue/Sand Hill Road



- Install a signal at Piers Lane
 - Meets signal warrants but not recommended until I-280 interchange is fixed
 - Performed traffic analysis to determine effects of signal
 - Reduces delay at Piers Lane/Alpine Access
 - Increases delay at Bishop, Wildwood, Stowe, and I-280
 - Increases queue length on Alpine by about 10%
 - With I-280 interchange improvements, provides nominal benefit in morning peak



- Make the roundabouts at I-280 ramps single-lane instead of two lanes
 - Not sufficient to solve congestion issue
- Incorporate bicycle lanes or sharrows in the roundabouts
 - Not allowed by standards for safety reasons



- Make parking illegal on the County's portion of Alpine Road
 - Already is illegal, dependent on enforcement
- Speed humps on Alpine Road
 - Used on local, neighborhood, or residential streets only
 - Only appropriate on County streets with a speed limit of 25 mph
 - Not recommended for emergency vehicle routes or bus routes



Next Steps

- PowerPoint, Q&A, and traffic models available at: http://publicworks.smcgov.org/alpine-road-traffic-corridor-study
- Corridor Study Report to be prepared in Winter 2016/17 and posted to website
- Phase 1 improvements implemented as money is allocated
- Grant funding and further development required for Phase 2 improvements



Breakout Session

- Please work with the group at your table to prioritize the list of improvements proposed for Phase 1 and 2
- Project representatives will be available to answer clarifying questions on the proposed improvements
- One "scribe" for each group will write the priority number collectively determined by the group on the provided table
- Please provide any questions/comments on the provided comment cards
- A Q&A session will follow to respond to written questions









