



Livable Orange Grove Blvd.

Resident Meeting March 22nd, 2018 PCC Community Education Center

MOVING PEOPLE TO PLACES

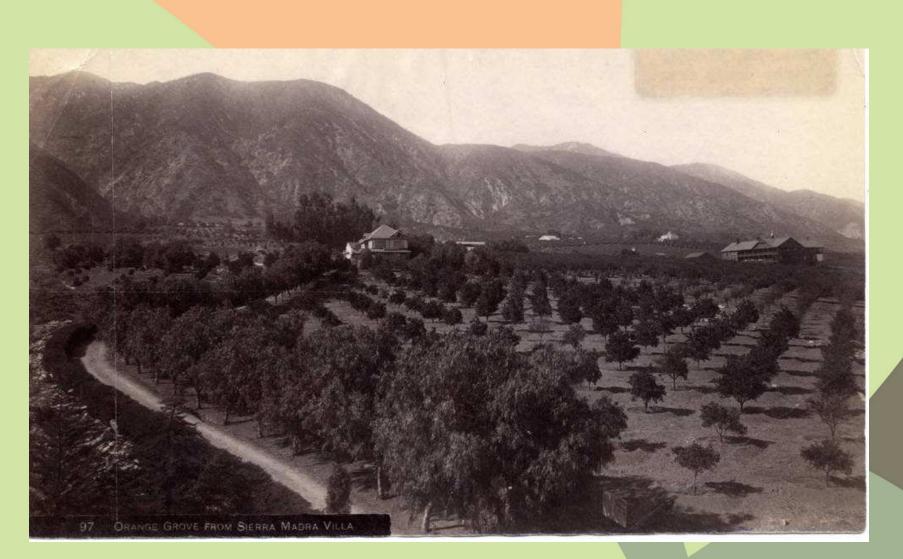


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Orange Grove Context & History



Historic Context



Orange Grove Boulevard was created to serve Pasadena's citrus groves.

Homes

- Notable residential architecture & historic neighborhoods create a unique identity
- This section of Orange Grove Blvd. is the living room for 672 homes



Schools and Churches



Assumption School/Church



Norma Coombs Elementary







Nearby Schools & Parks



Pasadena High School

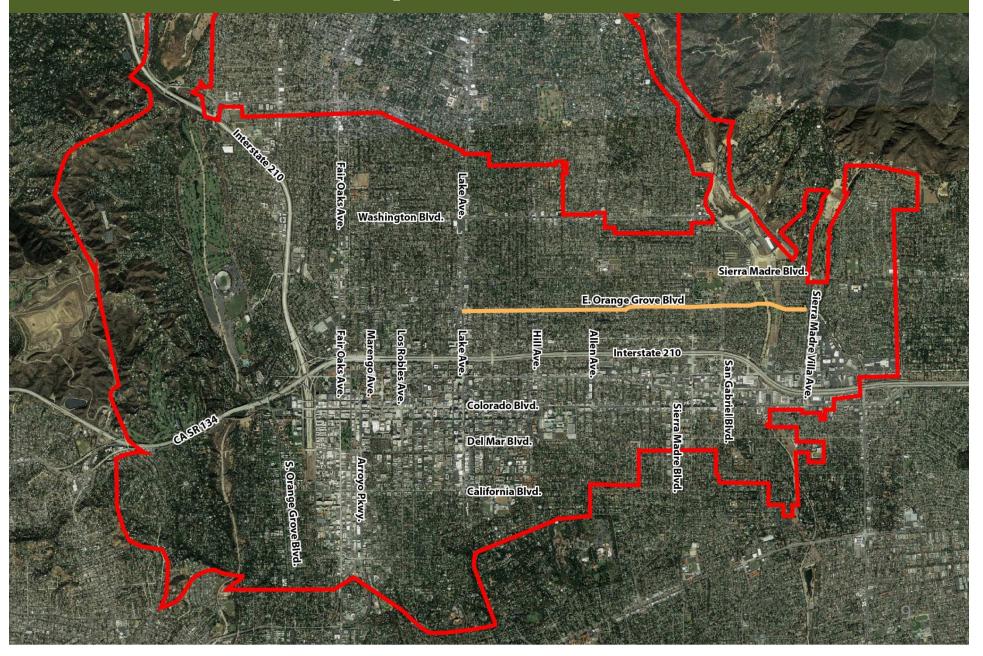






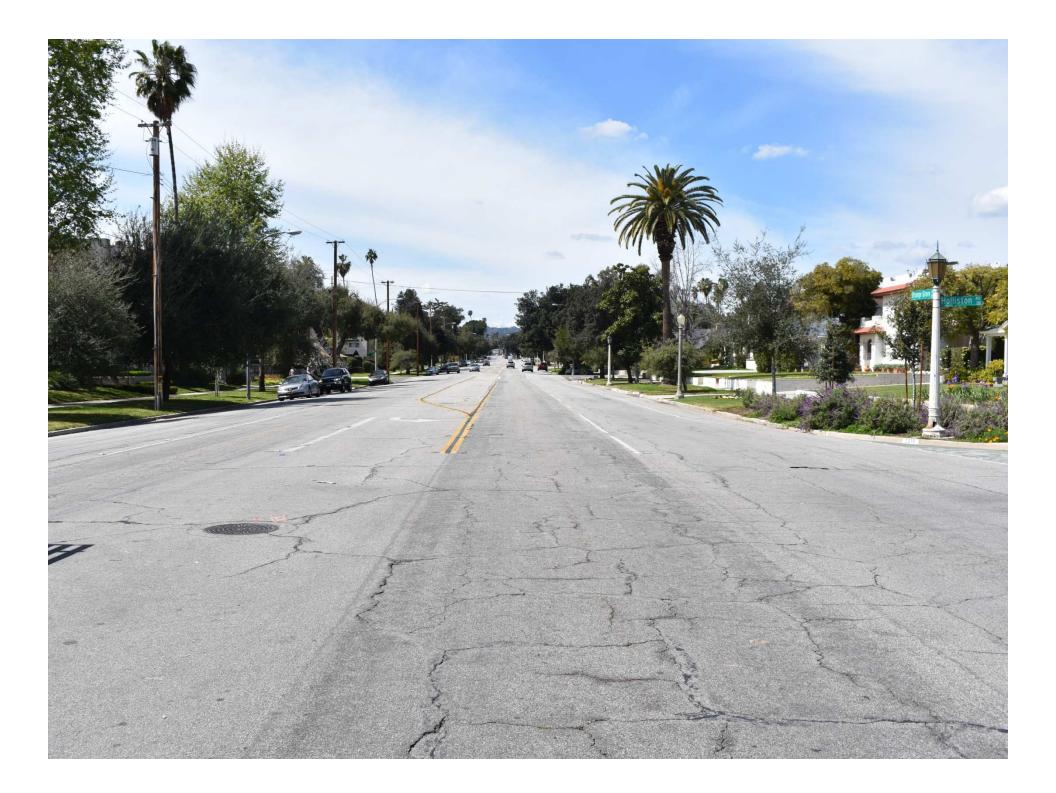


Role as an Important Travel Corridor



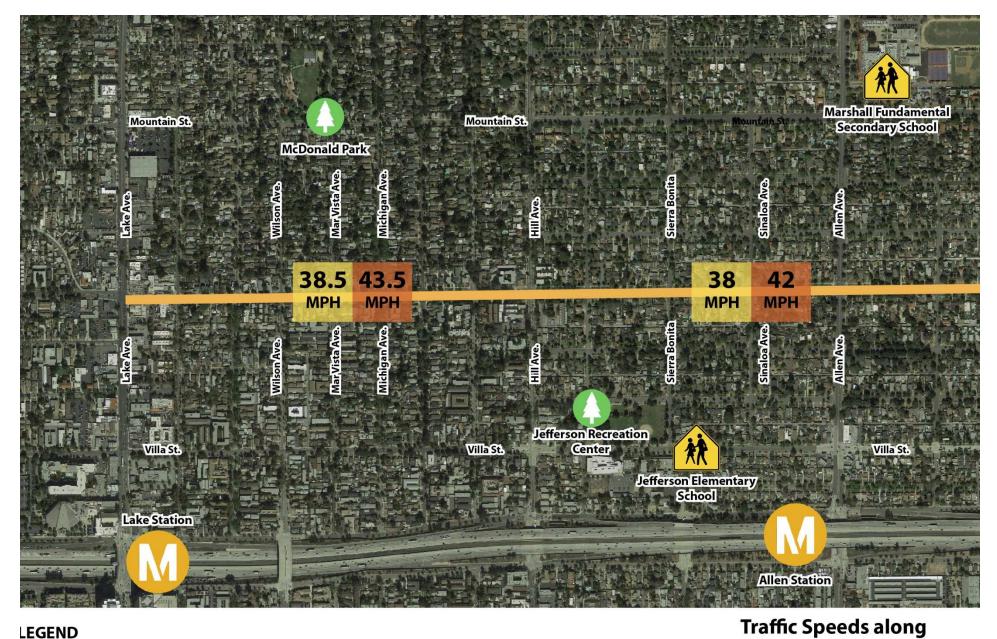
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Orange Grove Existing Conditions



Speed Limit Considerations

- Current speed limit is 40 mph, T-second highest in City (New York Dr., tied with Sierra Madre Bl.)
- California law prohibits cities from setting their own speed limits on major streets in order to avoid speed traps
- Limits must be set at the 85th percentile speed or they cannot be reasonably enforced
- Various bills have been floated at the state level to reform this process, but none have passed



LEGEND





Metro Gold Line Stations

50th Percentile Speed



Orange Grove Boulevard Lake Ave. to Allen Ave. 13

1,000



Orange Grove Blvd.

85th Percentile Speed



500

0

Fee 2,000

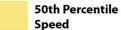




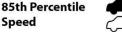




Orange Grove Blvd.



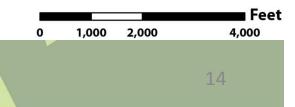


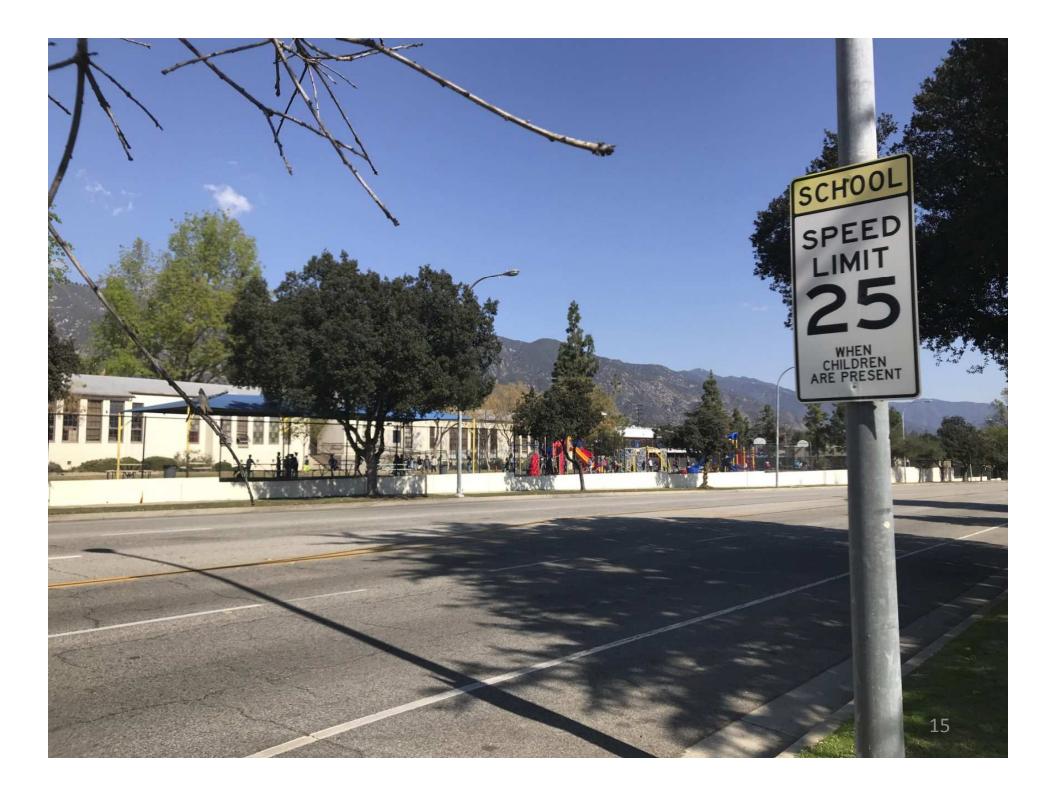




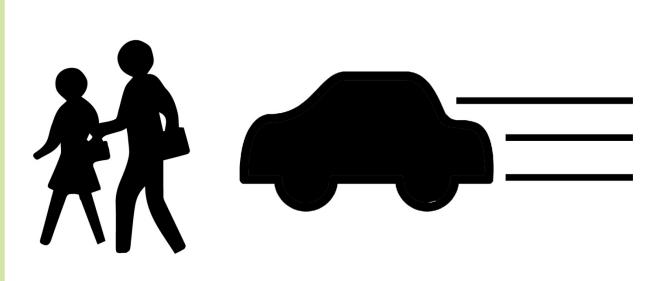
Traffic Speeds along Orange Grove Boulevard

Allen Ave. to Sierra Madre Villa Ave.





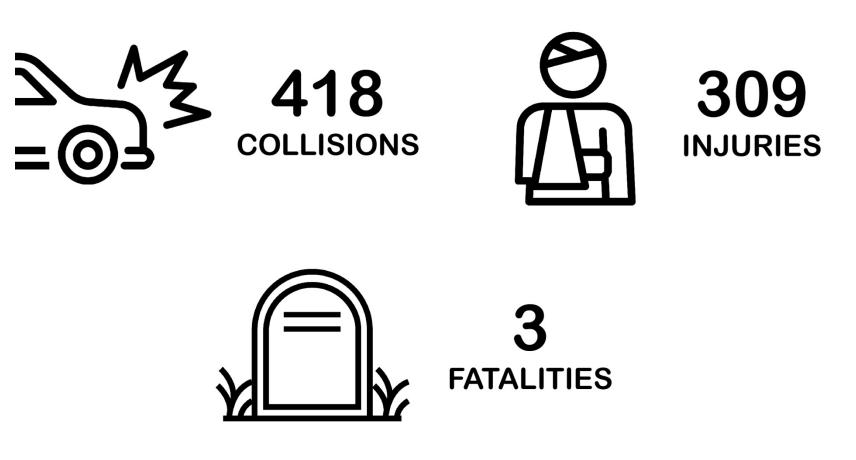
Speeds at Schools



1,936 cars daily >40 MPH

at Norma Coombs and Assumption Schools

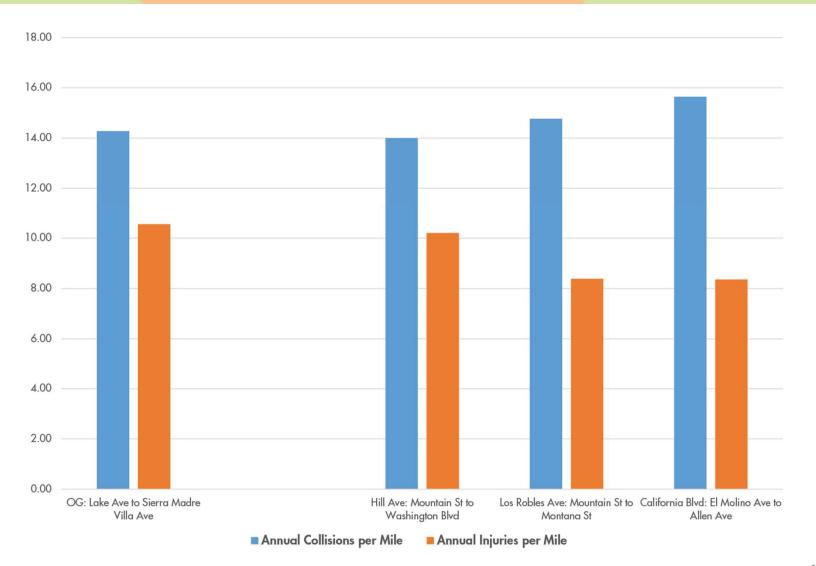
Collisions Statistics



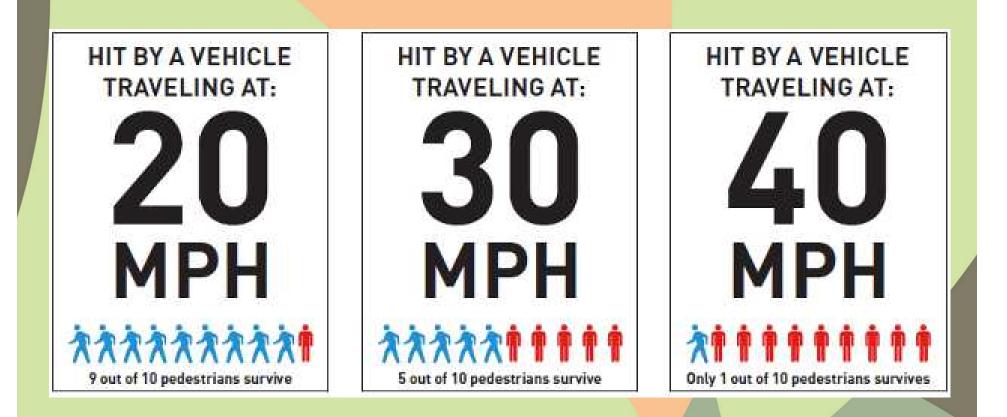
On Orange Grove Boulevard between Lake Avenue and Sierra Madre Villa Ave., 2008-2017 (source: Pasadena DOT collision records)

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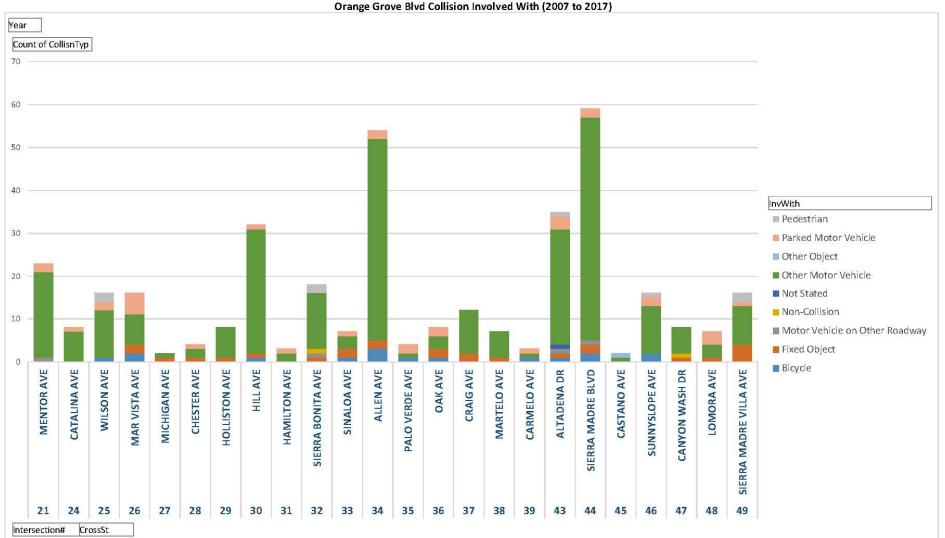
Comparison of Collision Rates On Streets with Similar Volumes



Speeds & Fatal Accidents

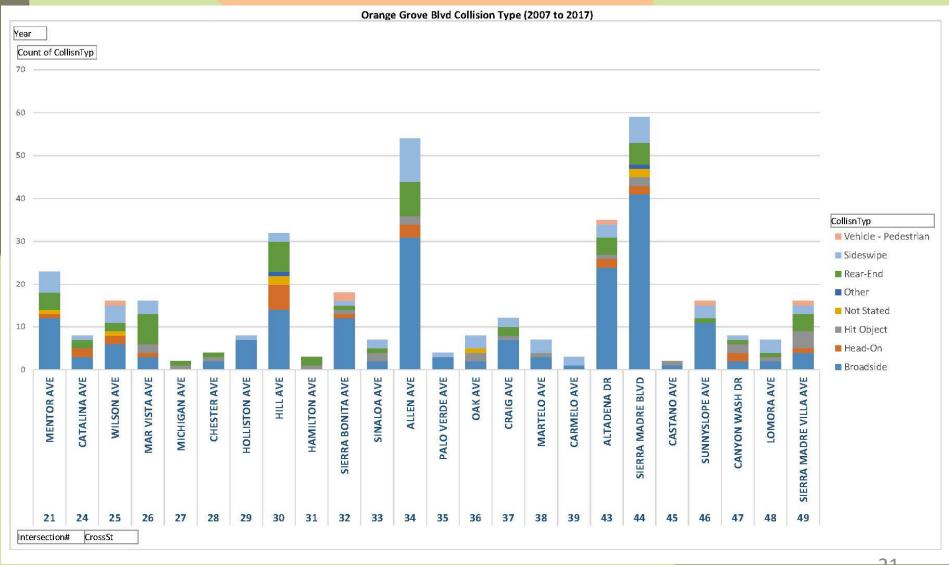


Collisions by Type of Vehicle

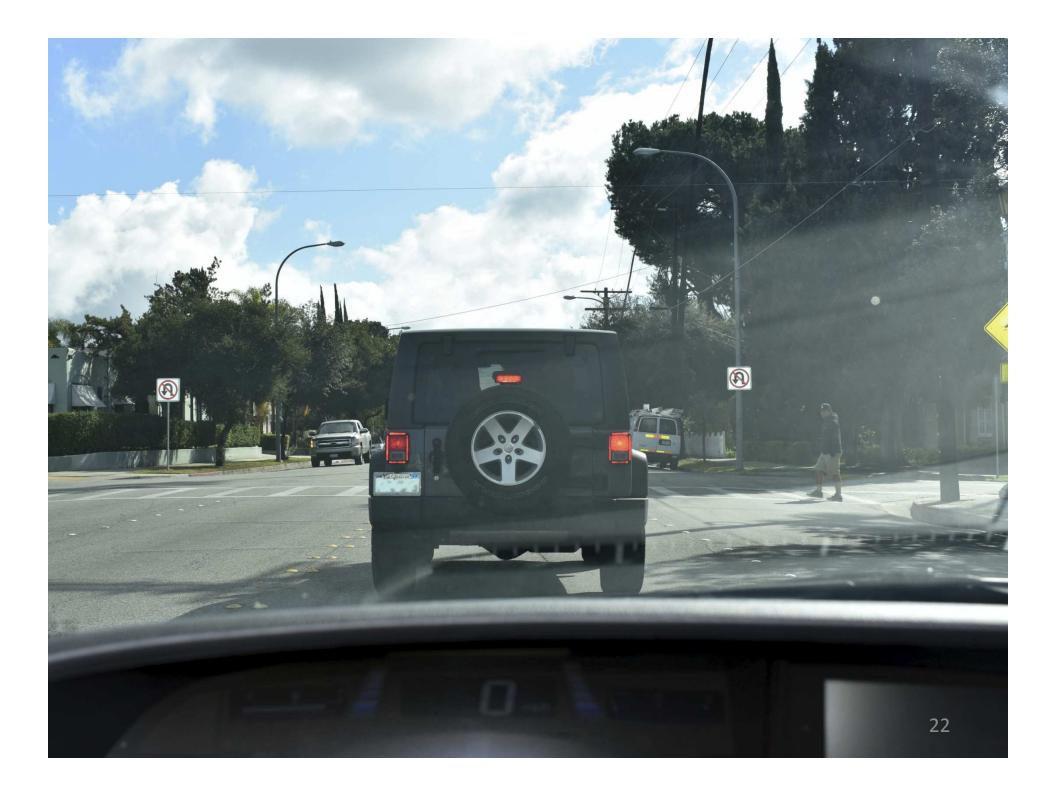


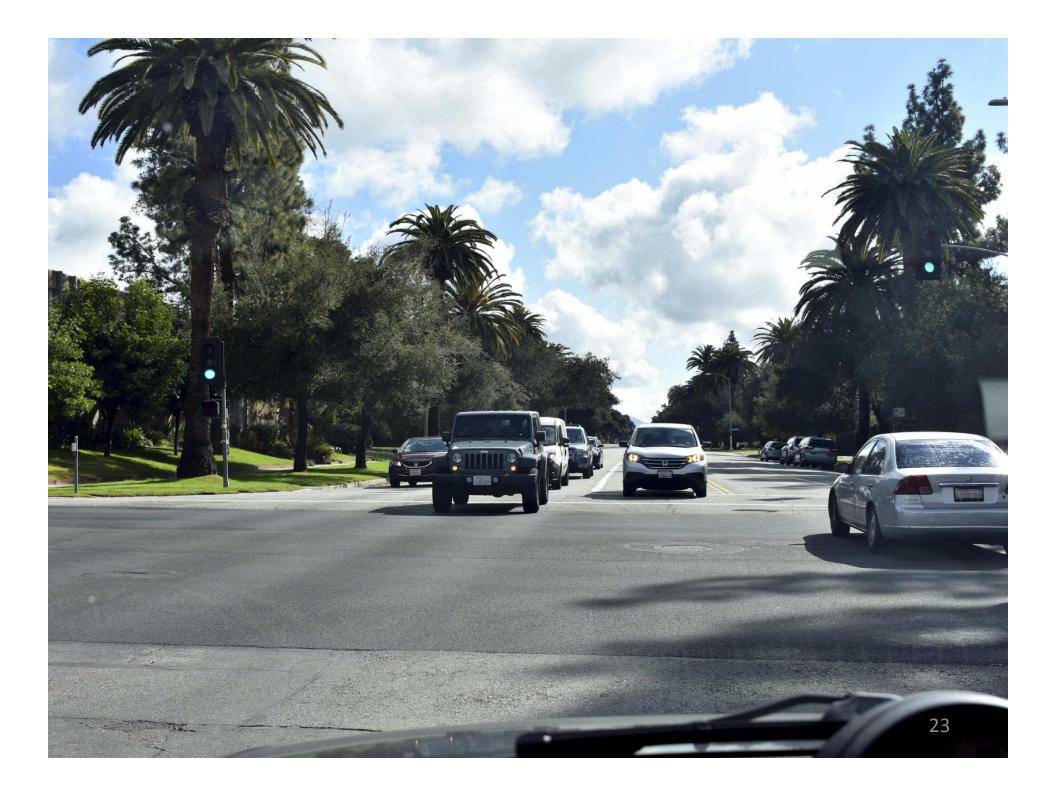
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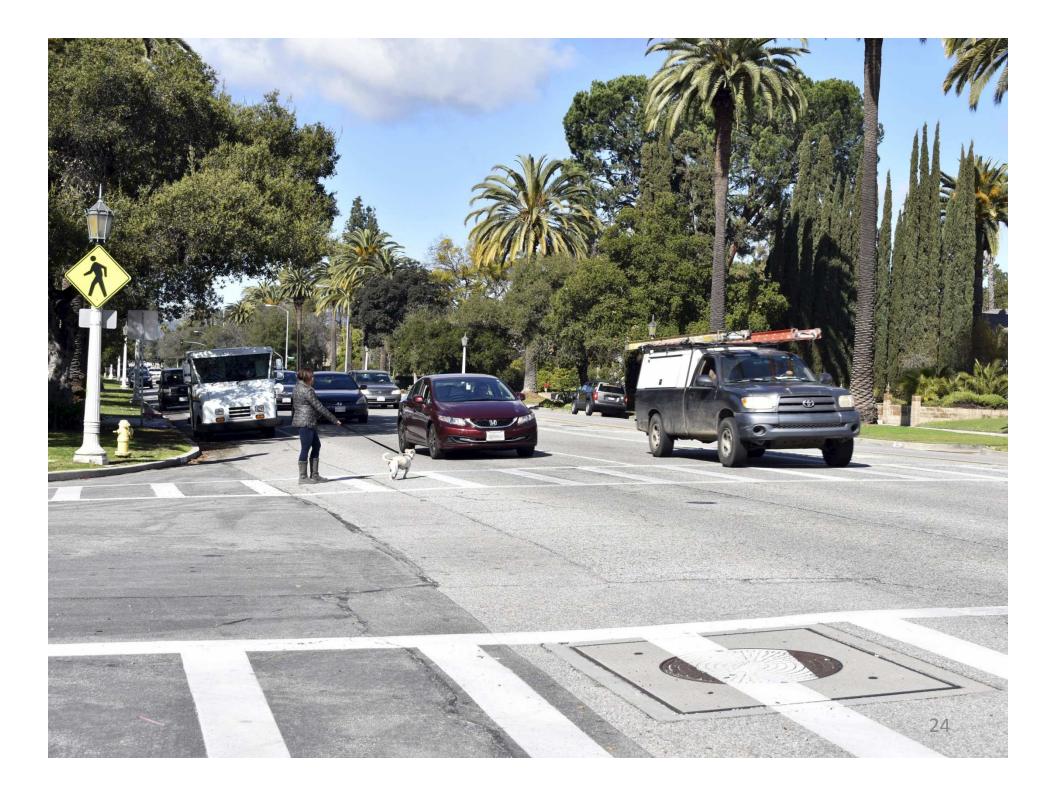
Collision Types

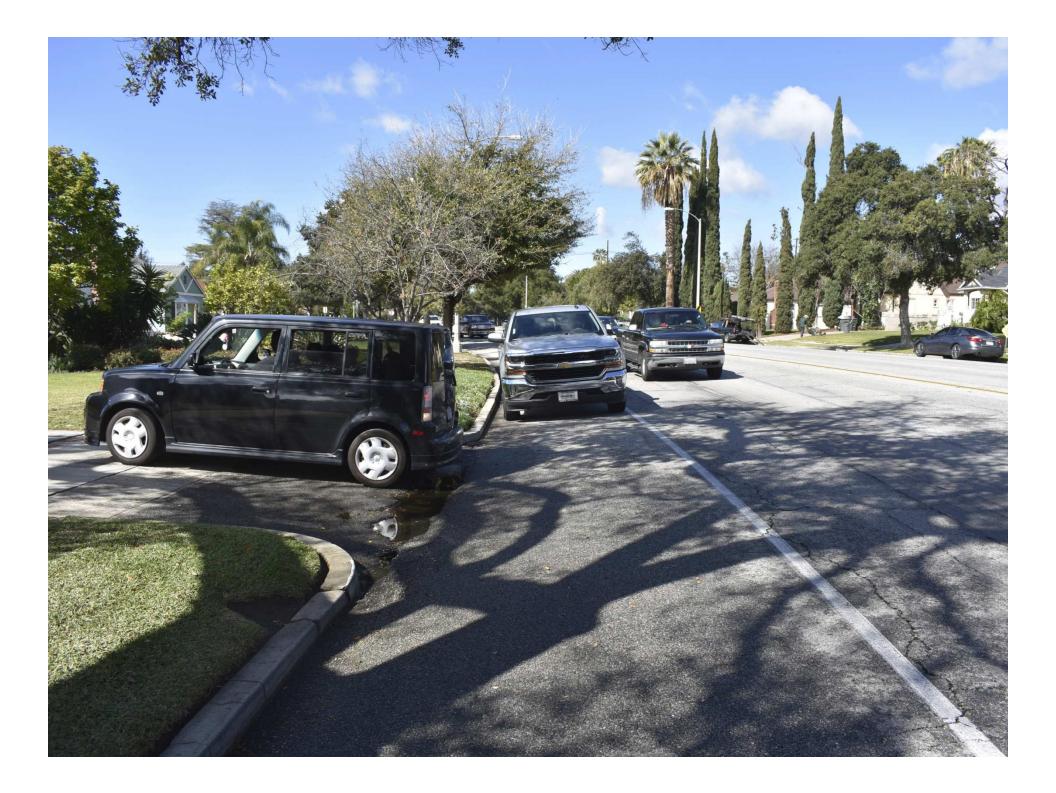


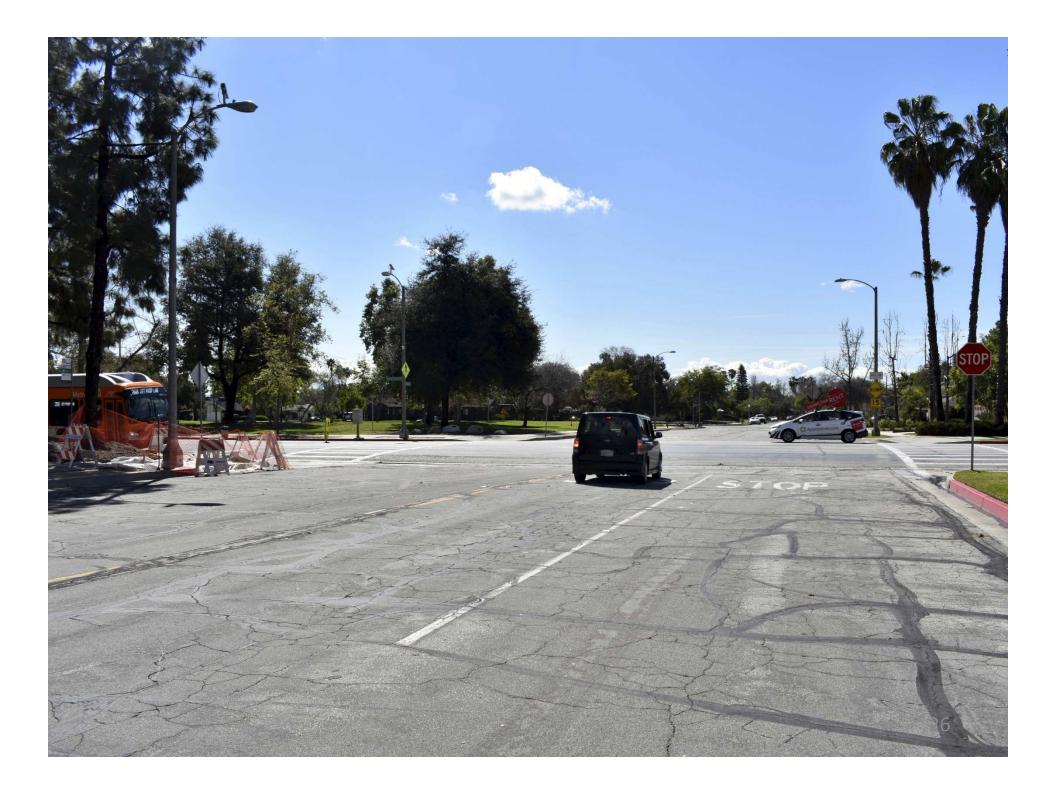
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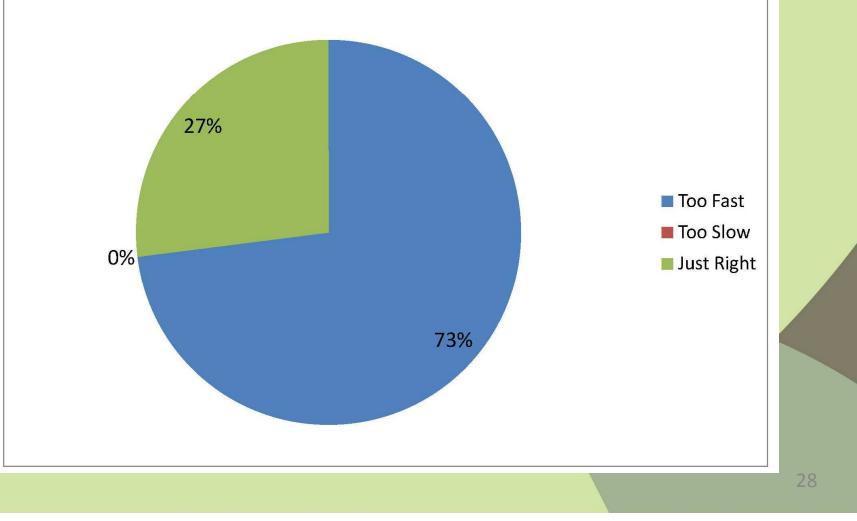
Resident Survey

Q1. How would you describe your quality of life as a resident of Orange Grove Boulevard with regard to traffic?

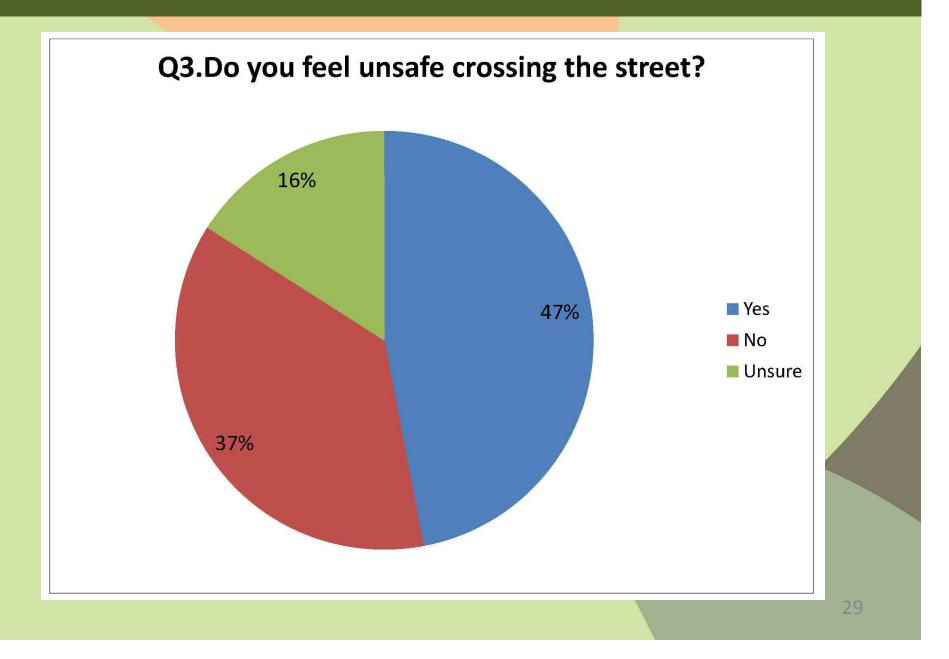


Resident Survey

Q2. Do you believe traffic moves too fast, too slow, or just right on Orange Grove?



Resident Survey





Project Goals

- 1. Improve the street environment for residents, schools and parks by calming traffic
- 2. Reduce the number and severity of traffic collisions along Orange Grove Boulevard
- 3. Celebrate the history of Orange Grove Boulevard as a special, iconic Pasadena street

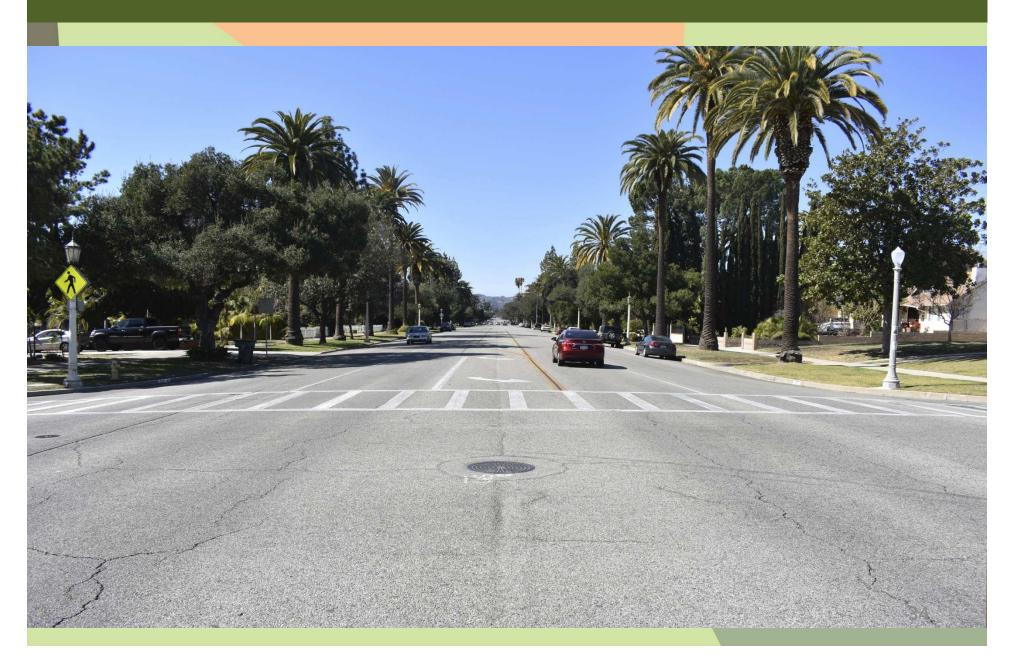
Design Assumptions

- 1. Single-family homeowners should be spared from 40+ mph speeds on their streets.
- Traffic diversion to other roads should be minimized, and no traffic should be encouraged to divert to adjacent local streets.
- Children and teenagers should have safe walking and biking routes to school, both on Orange Grove Blvd. and on neighboring streets.

Design Assumptions

- The safety of road users (drivers, pedestrians, cyclists) should be prioritized over travel speed, both on Orange Grove Blvd. and on neighboring streets.
- 5. Travel time for drivers may increase slightly, but should not suffer major increases.
- 6. Orange Grove's history and culture should be celebrated.

At Sierra Bonita Ave. - Before



At Sierra Bonita Ave. - After



At Sierra Bonita Ave. - After



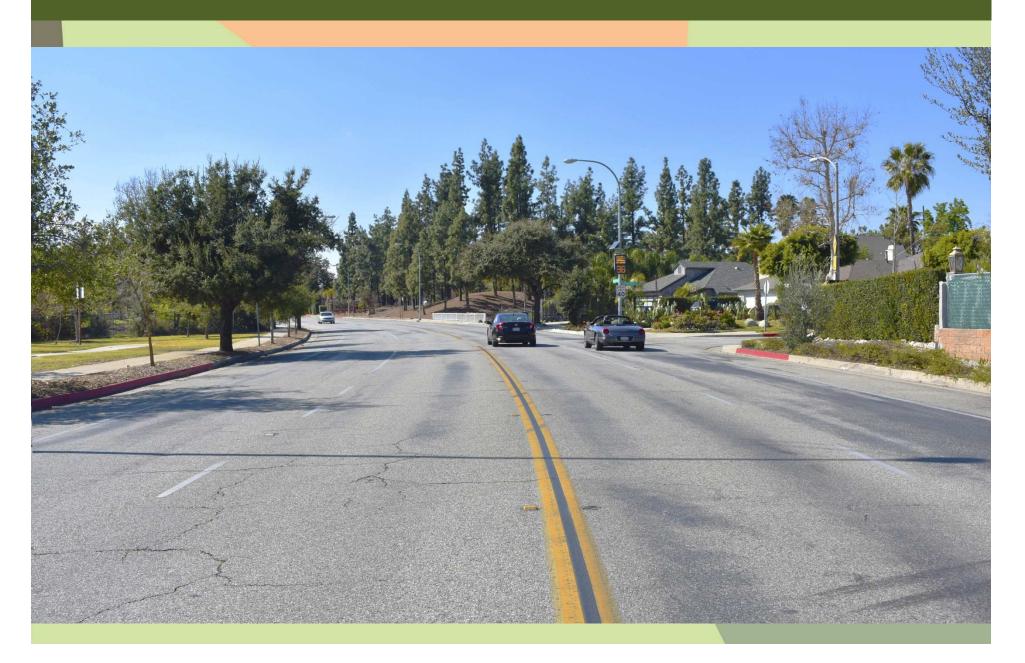








At Canyon Wash Ave. - Before



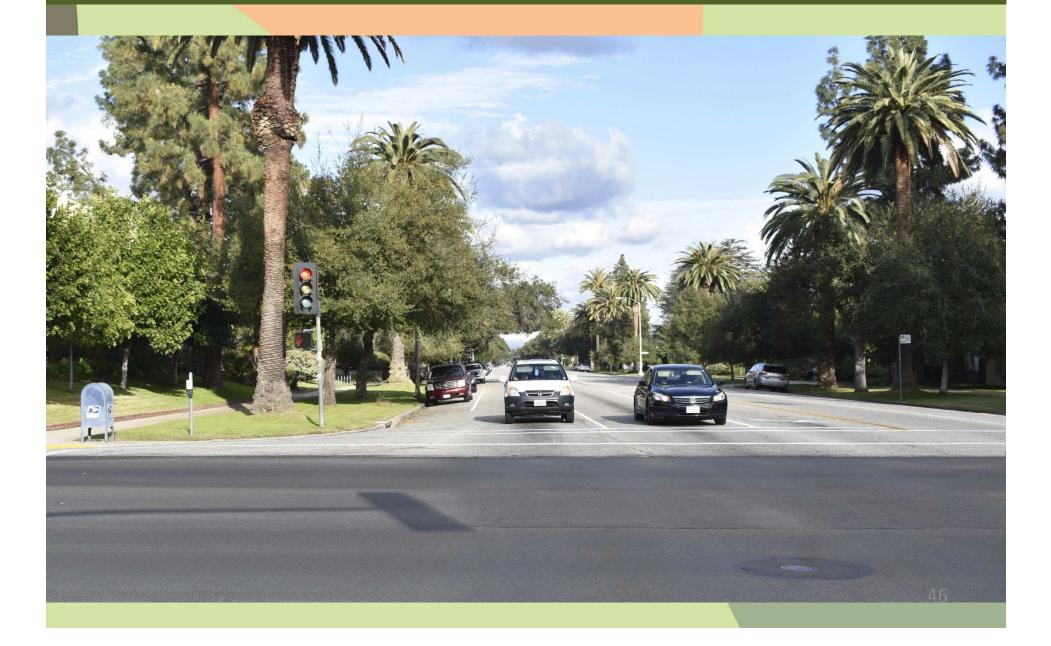




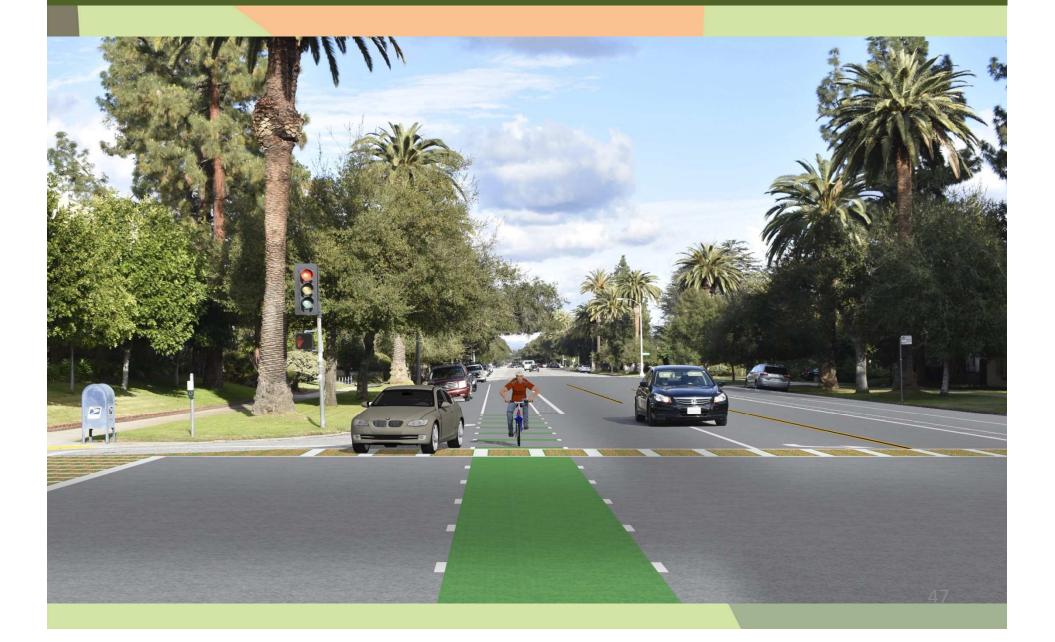




At Hill Ave. - Before



At Hill Ave. - After



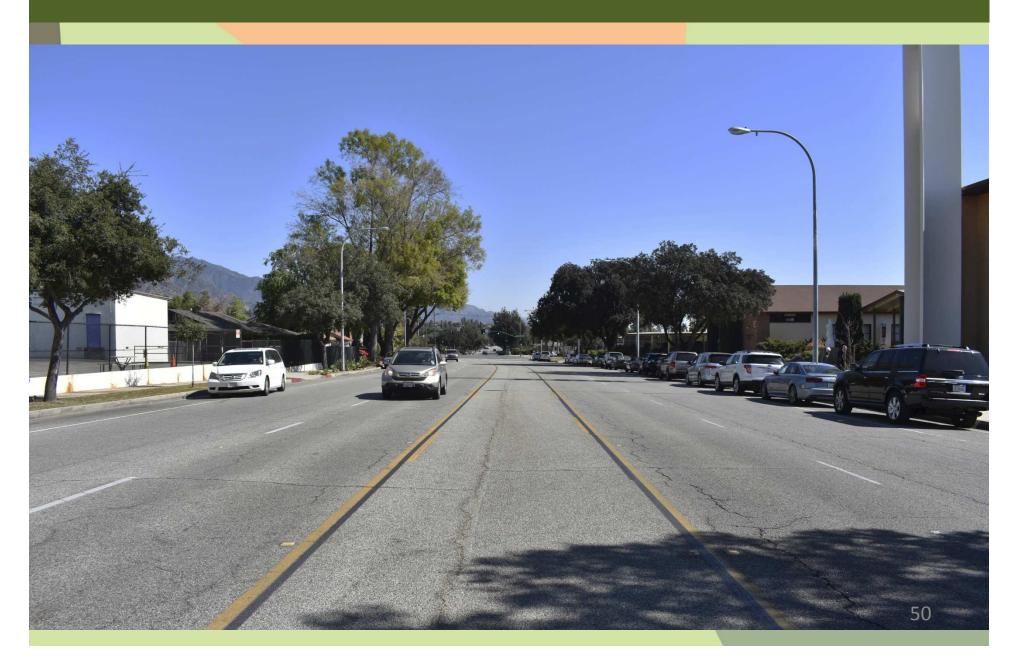
At Hill Ave. - After



At Hill Ave. - After



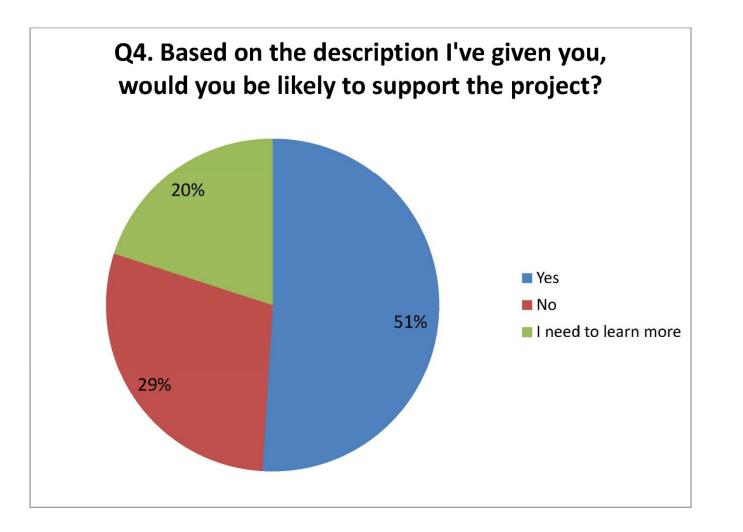
Altadena to Sierra Madre - Before



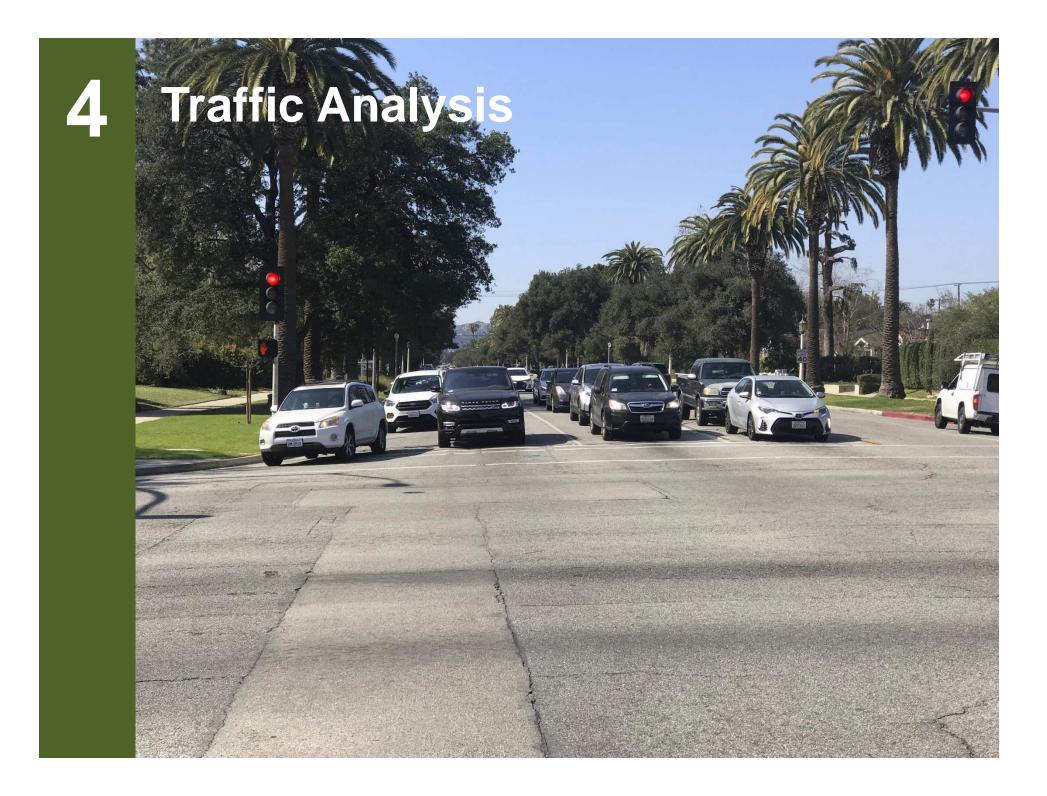
Altadena to Sierra Madre - After



Resident Survey



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Intersection Delays – A.M.

Intersection	Exis	Existing		With Project		Project Change	
	WB Approach Average Delay	Intersection Average Delay	WB Approach Average Delay	Intersection Average Delay	WB Approach	Int Average Delay	
Orange Grove Blvd/Wilson Ave	4.1	6.9	3.5	7.4	-0.6	0.5	
Orange Grove Blvd/Hill Ave	27.5	24.0	55.5	48.6	28.0	24.6	
Orange Grove Blvd/Allen Ave	8.6	18.4	14.4	36.9	5.8	18.5	
Orange Grove Blvd/Altadena Dr	21.4	20.6	22.8	23.3	1.4	2.7	
Orange Grove Blvd/Sierra Madre Blvd	41.4	33.2	41.4	33.2	0.0	0.0	
Orange Grove Blvd/Sierra Madre Villa Ave	18.9	25.7	18.9	25.7	0.0	0.0	
		Total A	verage Delay (sec)	35 sec	46 sec		

AM Peak Hour - Average Delay (sec)

Intersection Delays – P.M.

PM Peak Hour - Average Delay (sec)

Intersection	Exis	Existing		With Project		Project Change	
	EB Approach Average Delay	Intersection Average Delay	EB Approach Average Delay	Intersection Average Delay	EB Approach	Int Average Delay	
Orange Grove Blvd/Wilson Ave	6.1	10.8	10.9	14.0	4.8	3.2	
Orange Grove Blvd/Hill Ave	17.4	20.0	21.2	22.4	3.8	2.4	
Orange Grove Blvd/Allen Ave	18.6	17.0	14.7	22.2	-3.9	5.2	
Orange Grove Blvd/Altadena Dr	11.0	16.2	18.6	22.0	7.6	5.8	
Orange Grove Blvd/Sierra Madre Blvd	40.2	34.1	40.2	34.1	0.0	0.0	
Orange Grove Blvd/Sierra Madre Villa Ave	26.2	30.7	26.2	30.7	0.0	0.0	
			Total A	verage Delay (sec)	12 sec	17 sec	

Travel Times

Lake Avenue to Sierra Madre Villa (2.9 mi)

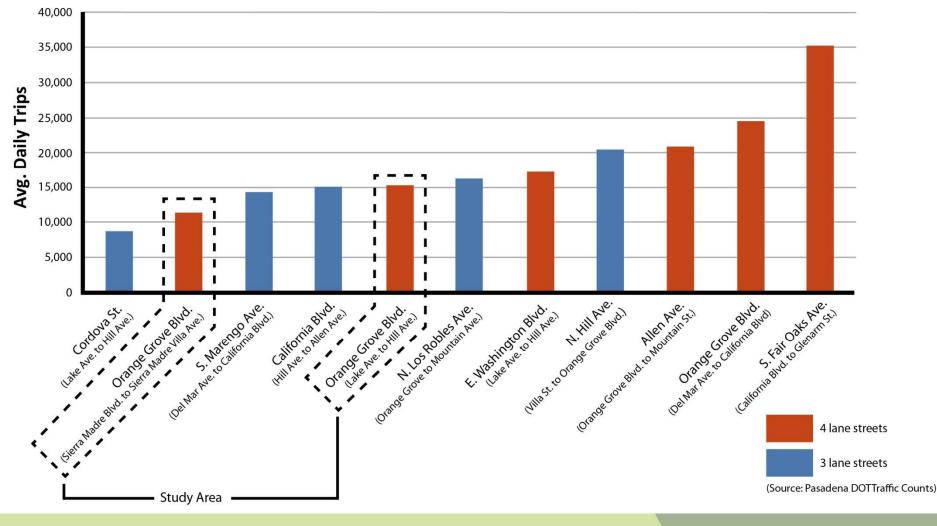
Time Period	Existing	With Project	Change	
Weekday (6-10 AM) Eastbound Westbound	7:35 7:50	8:30 9:30	+0:45 +1:40	
Weekday (3-7 PM) Eastbound Westbound	7:10 7:45	8:30 8:50	+1:20 +1:05	

Traffic Diversion Factors



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Traffic Volumes of Similar Streets



South Marengo Ave.



Average Daily Traffic = 14,800 cars

Collision rate reduced by 58%

South Los Robles Ave.



Average Daily Traffic = 16,000 cars

Collision rate reduced by 59%

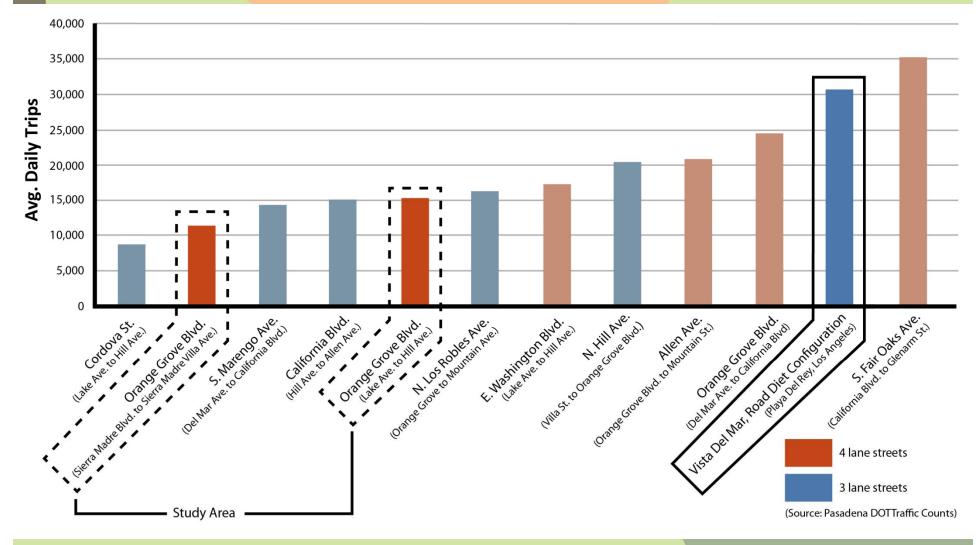
East Cordova St.



Average Daily Traffic = 11,000 cars

Collisions reduced by 30%

Traffic Volumes of Similar Streets



Vista Del Mar (Playa Del Rey)



Average Daily Traffic = 30,000 cars

Collisions increased

FHWA Guidance on Reconfigurations

- Evaluation of six rigorously conducted academic studies comparing before and after data for between eight and 450 reconfigurations each
- Collision reductions of 19-47%
- Improved mobility and access by all road users
- Integration of the roadway into surrounding uses that result in an enhanced quality of life
- Varied state and local guidelines on maximum volumes





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