



La Colina Road

Engineering & Traffic Survey (E&TS) Summary

From / To	La Cumbre Road to Verano Road
FAU Classification	Collector
Width	38 Feet
Length	2,825 Feet
Striping, Parking and Land Use	Double yellow center line, parking on both sides, schools
Existing Posted Speed Limit	35 miles per hour (mph)
85th Percentile Speed	35 mph
Pace	26 to 36 mph
Average Daily Traffic	2,719
Engineer's Determination of Speed Limit	<u>30 mph</u>
Speed Survey Expiry Date	07/01/2023
Date Prepared	07/01/2016

Justification: In accordance with the California Manual of Uniform Traffic Control Devices (MUTCD) and California Vehicle Code Section 627, a 5 mph reduction from the nearest 5 mph increment of the 85th percentile speed is applied due to the following:

- **Residential Density:** this section of La Colina Road exceeds residential density as defined by the California MUTCD (16 or more separate dwelling houses or business structures within 0.25 miles).

City of Santa Barbara
Behdad Gharagozli, P.E.
Project Engineer II
Registered Civil Engineer Number C 82051



GRADIENT
ROADSIDE DEVELOPMENT
REMARKS:

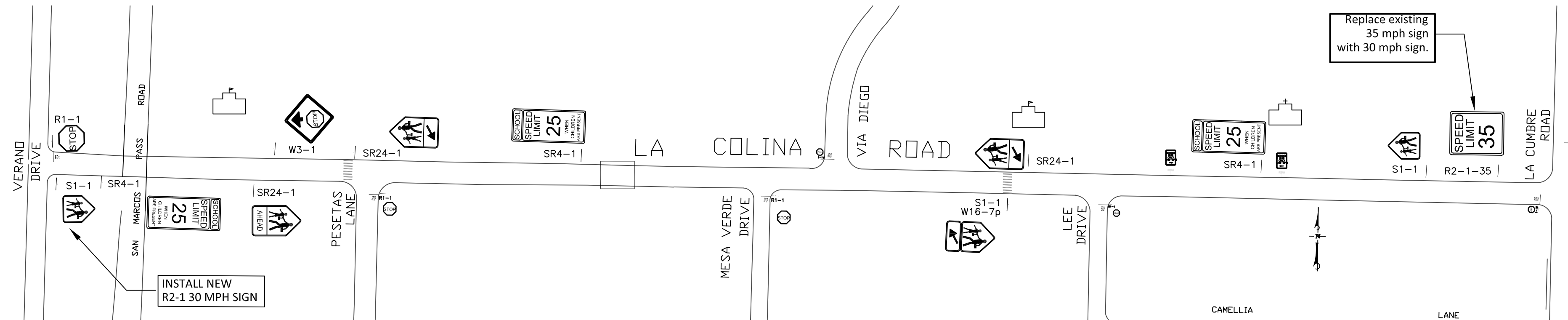
SCHOOL

RESIDENTIAL

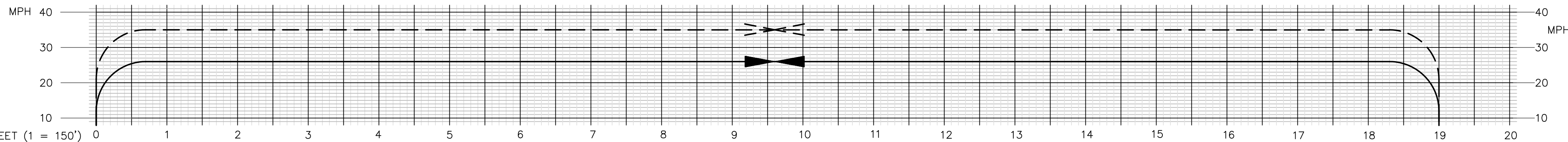
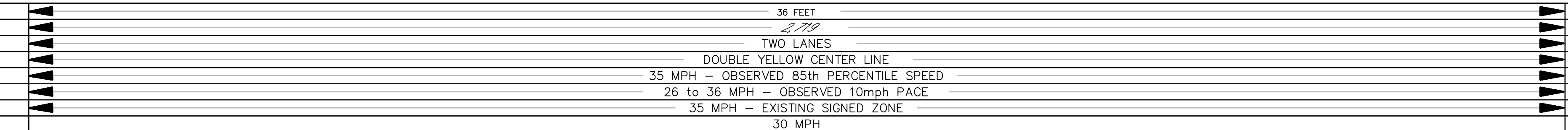
SCHOOL

CHURCH

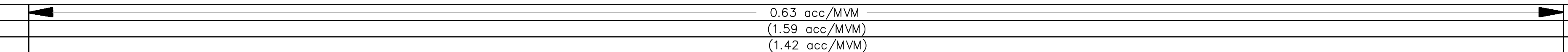
RESIDENTIAL



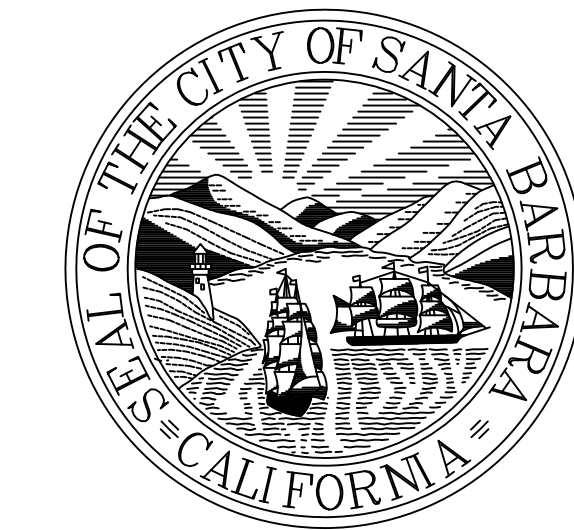
ROADWAY WIDTH
AVERAGE DAILY TRAFFIC
NO. OF STRIPED LANES
TYPE OF DIVISION STRIPE
OBSERVED SPEED CRITICAL
OBSERVED SPEED 10 mph PACE
EXISTING SIGNED ZONE
PROPOSED SPEED LIMIT



SEGMENT COLLISION RATE
2009 DISTRICT 5 URBAN 2 and 3LN
STATEWIDE-3yr-Urban-2 and 3 LN



CITY OF SANTA BARBARA



SPEED ZONE SURVEY
La Colina Road

FROM _____ La Cumbre Road

TO _____ Verano Road

SCALE: _____ SCALE - 1" = 150'

DATE: _____ July 1, 2016

PREPARED BY: _____ J.Rousseau

LEGEND

- ROAD SIGNS
- REGULATORY & WARNING (CODE NO.)
- TRAFFIC SIGNALS
- SENIOR CENTERS
- SCHOOLS
- CHURCHES
- STUDY LOCATION

CRITICAL SPEED - 85%
LOWER LIMIT OF 10mph PACE

VEHICLE SPEED SURVEY SHEET

Location: La Colina - La Cumbre to Verano

Date: May 16, 2016

Weather: Cloudy/Dry

Posted Speed: 35mph

Recorded By: jr

Start Time: 1:30pm

End Time: 2:20pm

Checked By: bg

MPH	Number of Vehicles															Total	Cumulative Total											
				5				10				15						20				25				30		
59																										0	-	
58																											0	-
57																											0	-
56																											0	-
55																											0	-
54																											0	-
53																											0	-
52																											0	-
51																											0	-
50																											0	-
49																											0	-
48																											0	-
47																											0	-
46																											0	-
45																											0	-
44																											0	-
43																											0	-
42																											0	-
41	x	x																									2	100
40																											0	-
39	x																										1	98
38	x																										1	97
37	x																										1	96
36	x	x	x																								3	95
35	x	x	x	x	x	x	x	x	x																		9	92
34	x	x	x	x	x	x	x	x	x																		9	83
33	x	x	x	x	x	x	x																				7	74
32	x	x	x	x	x	x	x	x	x	x																	10	67
31	x	x	x	x	x	x	x	x	x	x																	10	57
30	x	x	x	x	x	x	x	x	x	x	x	x	x	x													15	47
29	x	x	x	x																							4	32
28	x	x	x	x	x	x	x	x	x																		9	28
27	x	x	x	x	x																						5	19
26	x	x	x	x	x																						5	14
25	x	x																									2	9
24	x	x																									2	7
23	x	x	x																								3	5
22	x	x																									2	2
21																											0	-
20																											0	-
19																											0	-
18																											0	-
17																											0	-
16																											0	-
15																											0	-

85th Percentile Calculation

Step 1: Number of Free Flowing Vehicles: 100

Step 2: Determine 85th percentile vehicle: Total number of cars (Step 1) times 0.85: 85

Step 3: # to count up (step 2 rounded to nearest whole number if decimal): 85

85th Percentile Speed 35 mph

Average Speed 30.8 mph

10 MPH Pace Speed 26 to 36 mph

VOLUME

4000 La Colina Rd W/O Mesa Verde Dr

Day: Thursday
 Date: 10/8/2015

City: Santa Barbara
 Project #: CA15_8108_096

DAILY TOTALS					NB	SB					Total			
					0	0					2,719			
							1,572	WB						
							1,147							
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL			
00:00	0	0	2	2	4	12:00	0	0	44	19	63			
00:15	0	0	1	1	2	12:15	0	0	24	13	37			
00:30	0	0	1	0	1	12:30	0	0	25	21	46			
00:45	0	0	0	4	1	12:45	0	0	22	115	20	73	42	188
01:00	0	0	1	1	2	13:00	0	0	31	22	53			
01:15	0	0	0	0		13:15	0	0	27	21	48			
01:30	0	0	0	0		13:30	0	0	44	49	93			
01:45	0	0	0	1	0	13:45	0	0	26	128	20	112	46	240
02:00	0	0	2	0	2	14:00	0	0	18	18	36			
02:15	0	0	1	0	1	14:15	0	0	23	10	33			
02:30	0	0	1	2	3	14:30	0	0	33	13	46			
02:45	0	0	1	5	0	14:45	0	0	36	110	33	74	69	184
03:00	0	0	0	0		15:00	0	0	41	42	83			
03:15	0	0	1	0	1	15:15	0	0	39	28	67			
03:30	0	0	0	0		15:30	0	0	31	22	53			
03:45	0	0	0	1	0	15:45	0	0	34	145	13	105	47	250
04:00	0	0	1	0	1	16:00	0	0	39	15	54			
04:15	0	0	0	0		16:15	0	0	38	21	59			
04:30	0	0	1	0	1	16:30	0	0	40	20	60			
04:45	0	0	1	3	1	16:45	0	0	54	171	27	83	81	254
05:00	0	0	2	1	3	17:00	0	0	39	35	74			
05:15	0	0	1	0	1	17:15	0	0	48	33	81			
05:30	0	0	4	3	7	17:30	0	0	36	24	60			
05:45	0	0	1	8	1	17:45	0	0	21	144	26	118	47	262
06:00	0	0	5	3	8	18:00	0	0	21	11	32			
06:15	0	0	4	11	15	18:15	0	0	25	11	36			
06:30	0	0	3	9	12	18:30	0	0	17	10	27			
06:45	0	0	5	17	8	18:45	0	0	16	79	14	46	30	125
07:00	0	0	14	10	24	19:00	0	0	27	7	34			
07:15	0	0	17	31	48	19:15	0	0	14	14	28			
07:30	0	0	37	29	66	19:30	0	0	14	6	20			
07:45	0	0	53	121	32	19:45	0	0	9	64	4	31	13	95
08:00	0	0	58	40	98	20:00	0	0	15	5	20			
08:15	0	0	60	43	103	20:15	0	0	10	8	18			
08:30	0	0	25	31	56	20:30	0	0	8	6	14			
08:45	0	0	15	158	27	20:45	0	0	7	40	6	25	13	65
09:00	0	0	18	18	36	21:00	0	0	9	7	16			
09:15	0	0	17	12	29	21:15	0	0	10	5	15			
09:30	0	0	14	8	22	21:30	0	0	7	4	11			
09:45	0	0	15	64	15	21:45	0	0	7	33	3	19	10	52
10:00	0	0	16	9	25	22:00	0	0	3	5	8			
10:15	0	0	14	13	27	22:15	0	0	5	2	7			
10:30	0	0	12	20	32	22:30	0	0	1	1	2			
10:45	0	0	20	62	11	22:45	0	0	3	12	0	8	3	20
11:00	0	0	16	15	31	23:00	0	0	3	3	6			
11:15	0	0	10	10	20	23:15	0	0	0	0				
11:30	0	0	26	15	41	23:30	0	0	1	1	2			
11:45	0	0	30	82	16	23:45	0	0	1	5	0	4	1	9
TOTALS			526	449	975	TOTALS			1046	698	1744			
SPLIT %			53.9%	46.1%	35.9%	SPLIT %			60.0%	40.0%	64.1%			

DAILY TOTALS					NB	SB					Total
					0	0					2,719
							1,572	WB			
							1,147				

AM Peak Hour	07:30	07:45	07:30	PM Peak Hour	16:30	14:45	16:30				
AM Pk Volume	208	146	352	PM Pk Volume	144	125	296				
Pk Hr Factor	0.867	0.849	0.854	Pk Hr Factor	0.750	0.696	0.914				
7 - 9 Volume	0	0	279	243	522	4 - 6 Volume	0	0	315	201	516
7 - 9 Peak Hour	07:30	07:45	07:30	4 - 6 Peak Hour	16:30	16:45	16:30				
7 - 9 Pk Volume	0	0	208	146	352	4 - 6 Pk Volume	0	0	181	119	296
Pk Hr Factor	0.000	0.000	0.867	0.849	0.854	Pk Hr Factor	0.000	0.000	0.838	0.850	0.914

La Colina Rd

La Cumbre Rd to Verano Dr

1/1/2013 to 12/31/2015

Segment length in feet	2,825	
Number of collisions =	1	
AADT	2,719	
Time period in years =	3	
Segment Collision Rate =	0.63	ACC/MVM
2009 District 5 Urban 2 and 3LN =	1.59	ACC/MVM
2009 Statewide 3 yr, 2 and 3 LN =	1.42	ACC/MVM

<u>CASE ID</u>	<u>STREET 1</u>	<u>STREET 2</u>	<u>Date</u>	<u>Distance From Intersection</u>	<u>Direction From Intersection</u>
6000889	LA CUMBRE RD	LA COLINA RD	1/30/2013	0	Not stated
6007314	LA CUMBRE RD	LA COLINA RD	1/30/2013	0	Not stated
6311186	LA CUMBRE RD	LA COLINA RD	11/5/2013	0	Not stated
7059727	LA COLINA RD	LA CUMBRE RD	10/14/2015	0	Not stated