



Alameda Padre Serra

Engineering & Traffic Survey (E&TS) Summary

From / To	Sycamore Canyon Road to Eucalyptus Hill Road
FAU Classification	Collector
Width	27-28 Feet
Length	3,000 Feet
Striping, Parking and Land Use	Double yellow center lines, no parking on both sides. residential, school
Existing Posted Speed Limit	30 miles per hour (mph)
85th Percentile Speed	35 mph
Pace	25 to 35 mph
Average Daily Traffic	4,500
Engineer's Determination of Speed Limit	<u>30 mph</u>
Speed Survey Expiry Date	10/16/2022
Date Prepared	10/16/2015

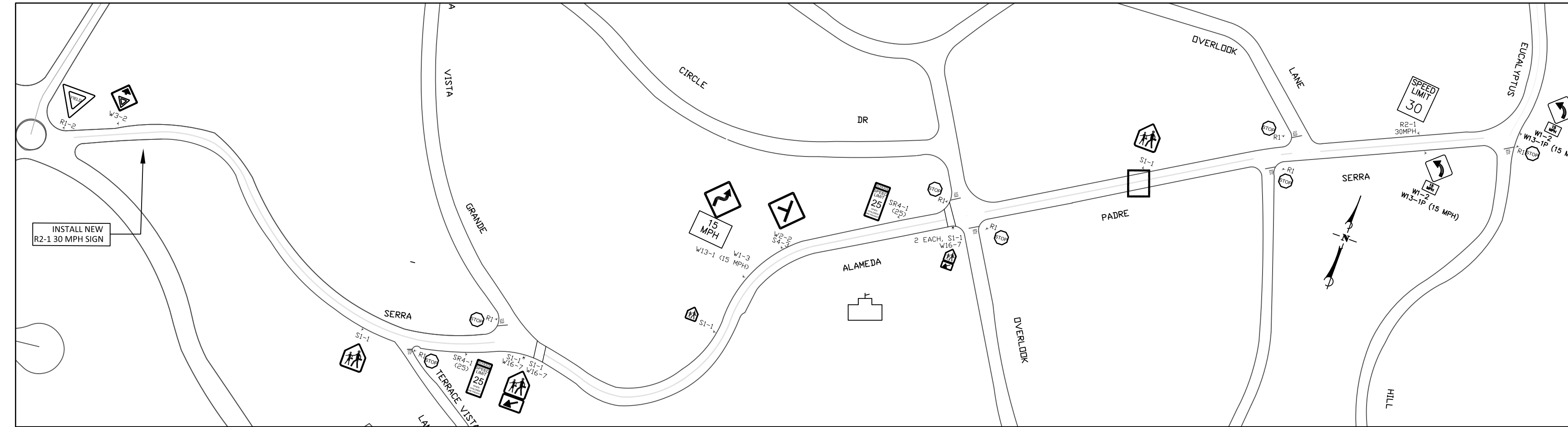
Justification: In accordance with the California Manual of Uniform Traffic Control Devices (MUTCD) and California Vehicle Code Section 627, a 5 mph reduction from the nearest increment of the 85th percentile speed is applied due to pedestrian safety. This section of Alameda Padre Serra lacks a continuous sidewalk and pedestrians are consequently required to share the roadway with motorists.

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



GRADIENT
ROADSIDE DEVELOPMENT
REMARKS:

SOLID RESIDENTIAL



CITY OF SANTA BARBARA



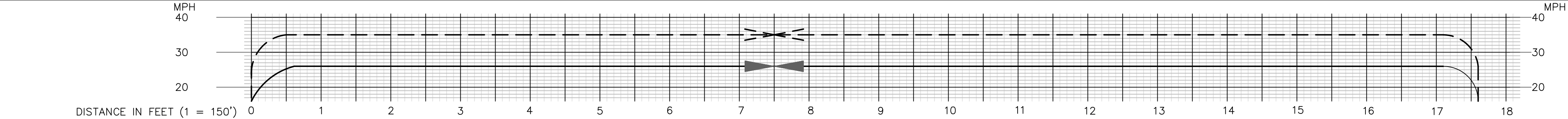
SPEED ZONE SURVEY
Alameda Padre Serra

FROM Sycamore Canyon Road
TO Eucalyptus Hill Road
SCALE: SCALE - 1" = 150'
DATE: October 6, 2015
PREPARED BY: J.Rousseau

LEGEND

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

ROADWAY WIDTH	27 FEET	28 FEET	28 FEET	27 FEET	27 FEET
AVERAGE DAILY TRAFFIC	4,500				
NO. OF STRIPED LANES	TWO LANES - NO PARKING ON BOTH SIDE				
TYPE OF DIVISION STRIPE	DOUBLE YELLOW CENTER LINES				
OBSERVED SPEED CRITICAL	35 MPH - OBSERVED 85th PERCENTILE SPEED				
OBSERVED SPEED 10 mph PACE	26 to 36 MPH - OBSERVED 10mph PACE				
EXISTING SIGNED ZONE	30 MPH - EXISTING SIGNED ZONE				
PROPOSED SPEED LIMIT	30 MPH				



SEGMENT COLLISION RATE	1.07 acc/MVM
2009 DISTRICT 5 URBAN 2 & 3LN	(1.59 acc/MVM)
2009 STATEWIDE 3 yr 2 & 3LN	(1.42 acc/MVM)

CRITICAL SPEED - 85% ---
LOWER LIMIT OF 10mph PACE _____

VEHICLE SPEED SURVEY SHEET

Location: Alameda Padre Serra b/w Overlook Ln & Overlook Ln Date: October 5, 2015
 Weather: Clear/Dry Posted Speed: 30 Recorded By: JR
 Start Time: 10:25 AM End Time: 11:00 AM 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	X																						1	100
43																							0	
42	X																						1	99
41	X																						1	98
40	X																						1	97
39	X	X																					2	96
38																							0	
37	X																						1	94
36	X	X	X	X	X	X																	6	93
35	X	X	X																				3	87
34	X	X	X	X	X	X	X	X	X														9	84
33	X	X	X	X	X	X	X	X	X	X	X	X	X										13	75
32	X	X	X	X	X	X	X	X	X	X	X	X	X										12	62
31	X	X	X	X	X	X																	6	50
30	X	X	X	X	X	X	X	X	X	X	X	X	X										12	44
29	X	X	X	X	X	X	X																7	32
28	X	X	X	X	X	X	X																7	25
27	X	X	X	X																			4	18
26	X	X	X	X	X																		5	14
25	X	X																					2	9
24	X	X	X	X	X																		5	7
23	X	X																					2	2
22																							0	
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** 31.2 mph **10 MPH Pace Speed** 26 to 36 mph

Alameda Padre Serra

Sycamore Canyon Rd to Eucalyptus Hill Rd

2013-2014

Segment length in feet	3,000	
Number of collisions =	2	
AADT	4,500	
Time period in years =	2	
Segment Collision Rate =	1.07	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>
6467527	ALAMEDA PADRE SERRA	OVERLOOK LN	3/29/2014	528	South
6554434	ALAMEDA PADRE SERRA	OVERLOOK LN	7/7/2014	165	North

Average Daily Traffic Volumes

Quality Traffic Data, LLC

QTD PROJ/LOC #:	2015140 - 001	GPS COORDINATES:	0
ON STREET:	Alameda Padre Serra	START DATE:	Wednesday, April 15, 2015
CROSS STREETS:	b/w Overlook Ln and Overlook Ln	VICINITY:	Santa Barbara, CA

AM COUNTS					PM COUNTS						
NB	SB	EB	WB		NB	SB	EB	WB			
00:00		2	3		12:00		43	51			
00:15		1	1		12:15		37	44			
00:30		0	0		12:30		48	30			
00:45		0	3	4	7	12:45	27	155	39	164	319
01:00		1	0		13:00		28	46			
01:15		0	0		13:15		45	34			
01:30		0	1		13:30		25	41			
01:45		0	1	1	2	13:45	41	139	33	154	293
02:00		0	0		14:00		41	44			
02:15		0	0		14:15		34	38			
02:30		0	0		14:30		39	46			
02:45		0	0	0	14:45		36	150	49	177	327
03:00		0	1		15:00		54	54			
03:15		0	0		15:15		50	46			
03:30		0	0		15:30		61	52			
03:45		0	0	1	1	15:45	51	216	53	205	421
04:00		0	1		16:00		50	57			
04:15		0	0		16:15		43	67			
04:30		0	1		16:30		46	69			
04:45		1	1	2	4	5	64	203	69	262	465
05:00		0	0		17:00		43	78			
05:15		0	0		17:15		34	94			
05:30		3	1		17:30		45	75			
05:45		2	5	3	4	9	29	151	76	323	474
06:00		7	3	3	18:00		23	47			
06:15		3	3		18:15		34	40			
06:30		10	16		18:30		33	30			
06:45		8	28	26	48	76	28	118	25	142	260
07:00		7	23		19:00		15	33			
07:15		20	26		19:15		12	20			
07:30		26	35		19:30		14	21			
07:45		34	87	55	139	226	8	49	16	90	139
08:00		50	46		20:00		17	17			
08:15		40	80		20:15		11	19			
08:30		56	53		20:30		6	14			
08:45		49	195	54	233	428	11	45	13	63	108
09:00		27	33		21:00		9	19			
09:15		31	45		21:15		8	12			
09:30		28	23		21:30		8	8			
09:45		36	122	24	125	247	9	34	15	54	88
10:00		25	23		22:00		3	33			
10:15		30	30		22:15		6	19			
10:30		33	31		22:30		5	8			
10:45		28	116	33	117	233	8	22	5	65	87
11:00		34	36		23:00		5	3			
11:15		29	31		23:15		1	5			
11:30		31	33		23:30		1	2			
11:45		31	125	36	136	261	3	10	4	14	24
TOTALS:		683	812	1495	TOTALS:		1292	1713	3005		

SPLIT	45.7%	54.3%	33.2%	SPLIT	43.0%	57.0%	66.8%
PEAK HOUR	08:00	07:45	08:00	PEAK HOUR	15:00	17:00	16:45
PH VOLUME	195	234	428	PH VOLUME	216	323	502
PHF	0.87	0.73	0.89	PHF	0.89	0.86	0.94

DAY'S TOTAL				
NB	SB	EB	WB	TOTAL
		1975	2525	4500



QUALITY TRAFFIC DATA, LLC

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