



Cliff Drive

Traffic & Engineering Survey Summary

From / To	Las Positas to Westerly City Limits
FAU Classification	Minor Arterial
Width	25 Feet
Length	5,495 Feet
Striping, Parking and Land Use	Double Center Line, Partial Bike Lanes No Parking, Residential and County Park
Existing Posted Speed Limit	35 miles per hour (mph)
85th Percentile Speed	36 mph
Pace	26 to 36 mph
Average Daily Traffic	9,960
Special Characteristics	Bicyclist safety / Accidents
Engineer's Determination of Speed Limit	30 miles per hour (mph)
Speed Survey Expiry Date:	09/04/2021
Date prepared 09/04/2014	

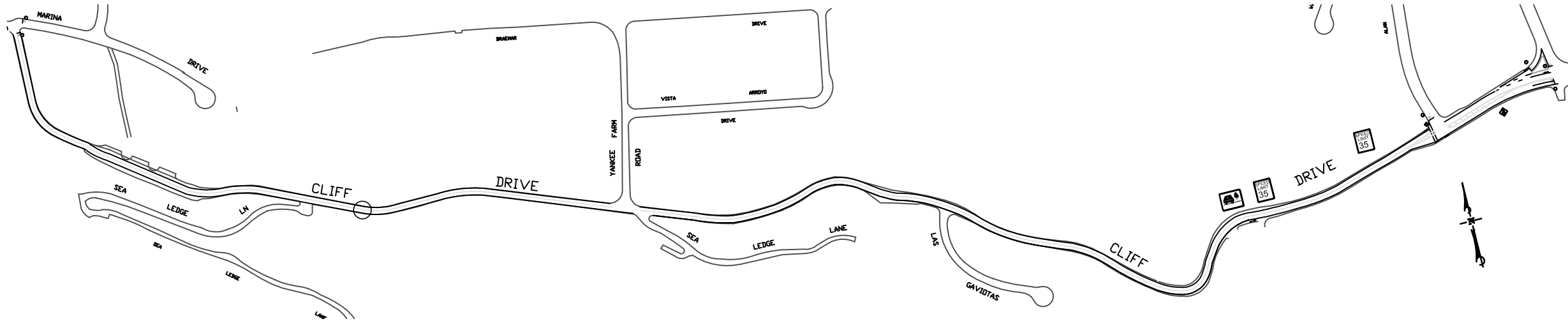
City of Santa Barbara
Derrick Bailey P.E., T.E.
Supervising Transportation Engineer
Registered Civil Engineer Number C 65726



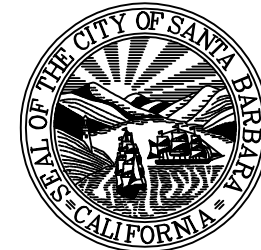
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GRADIENT
ROADSIDE DEVELOPMENT
REMARKS:

SOLID RESIDENTIAL



CITY OF SANTA BARBARA



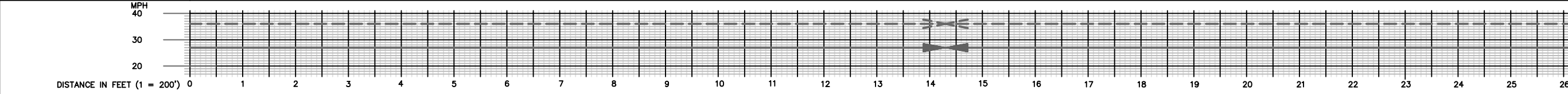
SPEED ZONE SURVEY
CLIFF DRIVE

FROM: Las Positas Road
TO: Westerly City Limits
SCALE: SCALE - 1" = 200'
DATE: September 4, 2014
PREPARED BY: J.Rousseau-B.Gharagozli

LEGEND

- ROAD SIGNS
- REGULATORY & WARNING (CODE NO.)
- TRAFFIC SIGNALS
- SENIOR CENTERS
- SCHOOLS
- CHURCHES
- STUDY LOCATION
- CRITICAL SPEED - 85%
- LOWER LIMIT OF 10mph PACE

ROADWAY WIDTH	25 FEET
AVERAGE DAILY TRAFFIC	1,000
NO. OF STRIPED LANES	TWO LANES
TYPE OF DIVISION STRIPE	DOUBLE YELLOW CENTER LINE
OBSERVED SPEED CRITICAL	35 MPH - OBSERVED 85th PERCENTILE SPEED
OBSERVED SPEED 10 mph PACE	26 to 36 MPH - OBSERVED 10mph PACE
EXISTING SIGNED ZONE	35 MPH - EXISTING SIGNED ZONE
PROPOSED SPEED LIMIT	30 MPH



SEGMENT COLLISION RATE	3.10 acc/MVM
2009 DISTRICT 5 URBAN 2 and 3LN	(1.59 acc/MVM)
2009 DISTRICT 3 yr 3LN	(1.42 acc/MVM)



3300 Cliff Drive

September 3, 2014

Las Positas to Westerly City Limits

Posted Speed is 35 MPH

1 (mph)	2 ui	3 fi	4 fiui	5 % class	6 cumulative %	7 fi*ui ²	7 f(ui-u) ²
Speed Range	Class Midvalue	Frequency					
11-14	12	0	0	0.0%	0.0%	0	0
15-19	17	0	0	0.0%	0.0%	0	0
20-24	22	4	88	4.0%	4.0%	1936	7744
25-29	27	25	675	25.0%	29.0%	18225	455625
30-34	32	51	1632	51.0%	80.0%	52224	2663424
35-39	37	17	629	17.0%	97.0%	23273	395641
40-44	42	2	84	2.0%	99.0%	3528	7056
45-49	47	1	47	1.0%	100.0%	2209	2209
50-54	52	0	0	0.0%	100.0%	0	0
55-59	56	0	0	0.0%	100.0%	0	0
		100	3,155			101,395.0	3,531,699.0

$u = \frac{fiui}{fi}$

Total Volume	85 Percentile	Mean	Standard Dev.	Median	Skewness Index
100	35	32	4.3	31.0	0.95

10 mph Pace

26

mph to

36

mph

Prepared By

J Rousseau

WB

Analysis Report (Project:Cliff Drive Location:Incoming Direction)

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Week Day Avg	Weekend Avg	Week Day 85% Avg Speed
0 - 1	*	2	8	8	*	*	*	6	*	39.3
1 - 2	*	3	1	4	*	*	*	2.7	*	36
2 - 3	*	2	*	1	*	*	*	1.5	*	35
3 - 4	*	2	1	1	*	*	*	1.3	*	36.3
4 - 5	*	1	1	4	*	*	*	2	*	37.7
5 - 6	*	8	6	11	*	*	*	8.3	*	36.3
6 - 7	*	20	26	27	*	*	*	24.3	*	39.3
7 - 8	*	65	67	64	*	*	*	65.3	*	39
8 - 9	*	126	119	135	*	*	*	126.7	*	38.5
9 - 10	16	136	122	115	*	*	*	97.3	*	37.5
10 - 11	144	148	143	150	*	*	*	146.3	*	37.5
11 - 12	157	146	162	47	*	*	*	128	*	37
12 - 13	169	173	171	*	*	*	*	171	*	37.6
13 - 14	146	137	155	*	*	*	*	146	*	37.5
14 - 15	153	157	157	*	*	*	*	155.7	*	37.2
15 - 16	199	202	201	*	*	*	*	200.7	*	37.3
16 - 17	196	191	189	*	*	*	*	192	*	37.5
17 - 18	120	124	112	*	*	*	*	118.7	*	37.4
18 - 19	97	89	88	*	*	*	*	91.3	*	37.2
19 - 20	64	81	87	*	*	*	*	77.3	*	39.4
20 - 21	32	36	43	*	*	*	*	37	*	37.8
21 - 22	27	18	23	*	*	*	*	22.7	*	37.8
22 - 23	20	18	19	*	*	*	*	19	*	36.8
23 - 24	12	16	6	*	*	*	*	11.3	*	37.5
Totals	1552	1901	1907	567	0	0	0			
% of Total	26.2%	32.1%	32.2%	9.6%	0%	0%	0%			

3960 BOTH DIRECTIONS

EB

Analysis Report (Project:Cliff Drive Location:Outgoing Direction)

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Week Day Avg	Weekend Avg	Week Day 85% Avg Speed
0 - 1	*	5	7	10	*	*	*	7.3	*	35.7
1 - 2	*	3	4	8	*	*	*	5	*	36
2 - 3	*	2	1	3	*	*	*	2	*	33.3
3 - 4	*	1	4	*	*	*	*	2.5	*	38.5
4 - 5	*	*	1	2	*	*	*	1.5	*	29.5
5 - 6	*	1	1	5	*	*	*	2.3	*	31.8
6 - 7	*	44	53	49	*	*	*	48.7	*	37.4
7 - 8	*	136	148	173	*	*	*	152.3	*	37
8 - 9	*	173	152	135	*	*	*	153.3	*	37
9 - 10	20	155	120	151	*	*	*	111.5	*	37.5
10 - 11	140	153	152	148	*	*	*	148.3	*	36.7
11 - 12	132	128	169	39	*	*	*	117	*	37.2
12 - 13	177	196	161	*	*	*	*	178	*	36.9
13 - 14	144	165	164	*	*	*	*	157.7	*	36.6
14 - 15	142	161	147	*	*	*	*	150	*	37.6
15 - 16	147	128	124	*	*	*	*	133	*	37.1
16 - 17	134	126	133	*	*	*	*	131	*	36.9
17 - 18	132	126	132	*	*	*	*	130	*	37.9
18 - 19	108	106	127	*	*	*	*	113.7	*	37.1
19 - 20	92	87	111	*	*	*	*	96.7	*	36.8
20 - 21	61	60	68	*	*	*	*	63	*	37.3
21 - 22	39	61	43	*	*	*	*	47.7	*	38
22 - 23	32	33	21	*	*	*	*	28.7	*	39
23 - 24	12	16	16	*	*	*	*	14.7	*	39.7
Totals	1512	2066	2059	723	0	0	0			
% of Total	23.8%	32.5%	32.4%	11.4%	0%	0%	0%			

3960 BOTH DIRECTIONS

Cliff Drive

Las Positas to Westerly City Limits

Segment length in feet	5,495	
Number of collisions =	14	See below.
AADT	3,960	
Time period in years =	3	01/01/10-12/31/12
Segment Collision rate =	3.10	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

CASE ID	STREET 1	STREET 2	COLL TYPE	DATE	TIME
4599683	CLIFF DR	ARROYO BURRO BEACH	Head on	1/30/2010	16:31
4657112	CLIFF DR	MESA LN	Rear end	3/2/2010	18:31
4676766	CLIFF DR	LAS POSITAS RD	Hit object	4/8/2010	22:34
4805009	CLIFF DR	MESA LN	Rear end	6/11/2010	16:08
5190645	CLIFF DR	LAS POSITAS RD	Hit object	5/20/2011	:27
5292980	CLIFF DR	YANKEE FARM RD	Side swipe	6/10/2011	8:34
5404499	CLIFF DR	LAS POSITAS RD	Head on	10/12/2011	19:00
5487330	CLIFF DR	MESA LN	Rear end	1/30/2012	7:48
5574310	CLIFF DR	MESA LN	Head on	3/24/2012	21:53
5574217	CLIFF DR	MARINA DR	Broadside	3/27/2012	10:45
5684676	CLIFF DR	MESA LN	Side swipe	6/15/2012	12:49
5754050	CLIFF DR	YANKEE FARM RD	Side swipe	7/15/2012	13:09
5797010	CLIFF DR	FLORA VISTA DR	Side swipe	8/1/2012	16:13
5800079	CLIFF DR	LAS POSITAS RD	Broadside	9/26/2012	18:00

Location: 3300 CLIFF DRIVE Posted Speed Limit: 35 MPH

Direction: BOTH Time: _____ to _____ Date: 9/3/2014

Pace: _____ 85 % 35 MPH Average: _____ MPH Day: WEDNESDAY

EB

WB

	1	2	3	4	5	6	7	8	9	10	11	12	12	13	14	15	16	17	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1		
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HHH HHH HHH HHH

John Rousseau

BEHDAD GHARAGOZLI

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