Yanonali Street

Engineering & Traffic Survey (E&TS) Summary

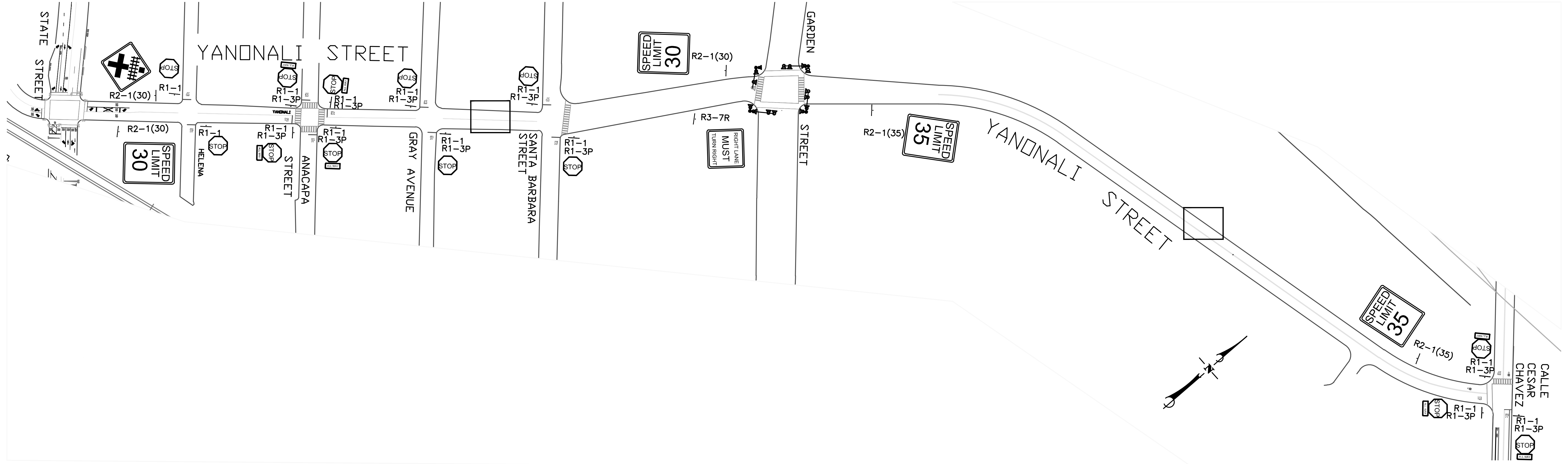
From / To	Calle Cesar Chavez to Garden Street
FAU Classification	Collector
Width	36 Feet
Length	1,730 Feet
Striping, Parking and Land Use	Double yellow center lines, parking on both sides, Commercial
Existing Posted Speed Limit	35 miles per hour (mph)
85th Percentile Speed	30 mph
Pace	21 to 31 mph
Average Daily Traffic	8,552
Engineer's Determination of Speed Limit	30 mph
Speed Survey Expiry Date	07/01/2023
Date Prepared	07/01/2016

Justification: The 85th percentile speed for this segments of Yanonali Street justifies a posted speed limit of 30 mph.

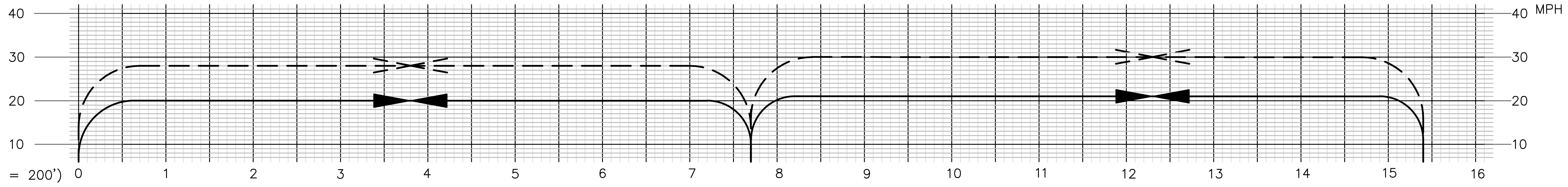
City of Santa Barbara
Behdad Gharagozli, P.E.
Project Engineer II
Registered Civil Engineer Number C 82051

REGISTERED PROFESSIONAL ENGINEER
BEHDAD GHARAGOZLI
C 82051
EXP. 3/31/18
CIVIL
STATE OF CALIFORNIA

GRADIENT		
ROADSIDE DEVELOPMENT	BUSINESS\RESIDENTIAL	COMMERCIAL
REMARKS:		



ROADWAY WIDTH	36 FEET	36 FEET
AVERAGE DAILY TRAFFIC	4,551	8,552
NO. OF STRIPED LANES	TWO LANES	TWO LANES
TYPE OF DIVISION STRIPE	DOUBLE YELLOW CENTER LINE	DOUBLE YELLOW CENTER LINE
OBSERVED SPEED CRITICAL	28 MPH– OBSERVED 85th PERCENTILE SPEED	30 MPH– OBSERVED 85th PERCENTILE SPEED
OBSERVED SPEED 10 mph PACE	20 to 30 MPH – OBSERVED 10mph PACE	21 to 31 MPH – OBSERVED 10mph PACE
EXISTING SIGNED ZONE	30 MPH – EXISTING SIGNED ZONE	35 MPH – EXISTING SIGNED ZONE
PROPOSED SPEED LIMIT	25 MPH	30 MPH



SEGMENT COLLISION RATE	2.77 acc/MVM	0.98 acc/MVM
2009 DISTRICT 5 URBAN 2 and 3LN	(1.59 acc/MVM)	
STATEWIDE–3yr–Urban–2 and 3 LN	(1.42 acc/MVM)	

CITY OF SANTA BARBARA

SEAL OF THE CITY OF SANTA BARBARA = CALIFORNIA =

SPEED ZONE SURVEY
YANONALI STREET

FROM: Calle Cesar Chavez

TO: Garden Street

SCALE: SCALE – 1" = 200'

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: 500 E Yanonali Street Date: June 14, 2016

Weather: Overcast Posted Speed: 35 Recorded By: jr

Start Time: 9am End Time: 9:40am Checked By: bg

MPH	Number of Vehicles				5					10					15					20					25					30	Total	Cumalative Total
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																															0	-
40																															0	-
39																															0	-
38	x																														1	100
37																															0	-
36																															0	-
35																															0	-
34	x	x	x																												3	99
33	x	x																													2	96
32	x	x	x	x	x																										5	94
31	x	x	x																												3	89
30	x	x	x	x	x																										5	86
29	x	x	x	x	x																										5	81
28	x	x	x	x	x	x	x	x	x																						9	76
27	x	x	x	x	x	x	x	x	x																						9	67
26	x	x	x	x	x	x																									6	58
25	x	x	x	x	x	x	x	x	x	x	x	x	x	x																	14	52
24	x	x	x	x	x	x	x	x	x																						9	38
23	x	x	x	x	x	x																									6	29
22	x	x	x	x	x	x	x	x																							8	23
21	x	x	x	x	x	x																									6	15
20	x	x	x	x	x																										5	9
19	x																														1	4
18	x	x	x																												3	3
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 30 mph **Average Speed** 25.8 mph **10 MPH Pace Speed** 21 to 31 mph

Prepared by NDS/ATD

VOLUME

500 Yanonali St Bet. Between Calle Cesar Chavez & Garden St

Day: Thursday
Date: 10/8/2015

City: Santa Barbara
Project #: CA15_8108_087

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	5,008	3,544	8,552

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			10		8		18		12:00			103		82		185	
00:15			4		3		7		12:15			78		89		167	
00:30			4		1		5		12:30			69		67		136	
00:45			1	19	0	12	1	31	12:45			72	322	60	298	132	620
01:00			4		1		5		13:00			102		71		173	
01:15			1		0		1		13:15			79		65		144	
01:30			0		2		2		13:30			103		55		158	
01:45			0	5	0	3	0	8	13:45			92	376	68	259	160	635
02:00			2		1		3		14:00			78		74		152	
02:15			1		0		1		14:15			86		62		148	
02:30			1		2		3		14:30			86		62		148	
02:45			0	4	0	3	0	7	14:45			87	337	56	254	143	591
03:00			0		1		1		15:00			85		58		143	
03:15			0		1		1		15:15			83		70		153	
03:30			3		5		8		15:30			93		63		156	
03:45			3	6	1	8	4	14	15:45			109	370	57	248	166	618
04:00			1		1		2		16:00			115		101		216	
04:15			5		0		5		16:15			85		80		165	
04:30			1		1		2		16:30			93		101		194	
04:45			11	18	3	5	14	23	16:45			99	392	83	365	182	757
05:00			10		3		13		17:00			90		115		205	
05:15			9		8		17		17:15			90		73		163	
05:30			18		7		25		17:30			84		86		170	
05:45			25	62	19	37	44	99	17:45			67	331	62	336	129	667
06:00			32		9		41		18:00			73		51		124	
06:15			61		19		80		18:15			50		33		83	
06:30			51		40		91		18:30			61		33		94	
06:45			86	230	47	115	133	345	18:45			42	226	28	145	70	371
07:00			77		53		130		19:00			45		16		61	
07:15			110		55		165		19:15			34		20		54	
07:30			109		71		180		19:30			32		20		52	
07:45			133	429	61	240	194	669	19:45			28	139	11	67	39	206
08:00			137		84		221		20:00			21		28		49	
08:15			129		70		199		20:15			20		15		35	
08:30			133		72		205		20:30			28		20		48	
08:45			88	487	60	286	148	773	20:45			20	89	8	71	28	160
09:00			114		59		173		21:00			16		11		27	
09:15			126		59		185		21:15			17		11		28	
09:30			70		61		131		21:30			13		6		19	
09:45			92	402	47	226	139	628	21:45			13	59	5	33	18	92
10:00			73		69		142		22:00			13		7		20	
10:15			68		49		117		22:15			9		8		17	
10:30			73		62		135		22:30			8		3		11	
10:45			77	291	61	241	138	532	22:45			11	41	4	22	15	63
11:00			80		66		146		23:00			14		6		20	
11:15			84		56		140		23:15			4		2		6	
11:30			92		67		159		23:30			11		4		15	
11:45			82	338	67	256	149	594	23:45			6	35	2	14	8	49
TOTALS				2291		1432		3723	TOTALS				2717		2112		4829
SPLIT %				61.5%		38.5%		43.5%	SPLIT %				56.3%		43.7%		56.5%

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	5,008	3,544	8,552

AM Peak Hour			07:45	11:30	07:45	PM Peak Hour			15:30	16:15	16:00
AM Pk Volume			532	305	819	PM Pk Volume			402	379	757
Pk Hr Factor			0.971	0.857	0.926	Pk Hr Factor			0.874	0.824	0.876
7 - 9 Volume	0	0	916	526	1442	4 - 6 Volume	0	0	723	701	1424
7 - 9 Peak Hour			07:45	07:45	07:45	4 - 6 Peak Hour			16:00	16:15	16:00
7 - 9 Pk Volume	0	0	532	287	819	4 - 6 Pk Volume	0	0	392	379	757
Pk Hr Factor	0.000	0.000	0.971	0.854	0.926	Pk Hr Factor	0.000	0.000	0.852	0.824	0.876

Yanonali St

Garden St to Calle Cesar Chavez

1/1/2013 to 12/31/2015

Segement length in feet	1,730	
Number of collisions =	3	
AADT	8,552	
Time period in years =	3	
Segment Collision Rate =	**0.98**	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	Date	Distance From Intersection	Direction From Intersection
6184924	YANONALI ST	CALLE CESAR CHAVEZ	7/23/2013	0	Not stated
~~6353567~~	~~CALLE CESAR CHAVEZ~~	~~YANONALI ST~~	~~1/8/2014~~	~~0~~	~~Not stated~~
6753678	YANONALI ST	GARDEN ST	12/22/2014	588	East
7138250	YANONALI ST	CALLE CESAR CHAVEZ	12/9/2015	0	Not stated