



Shoreline Drive

Traffic & Engineering Survey Summary

From / To	Castillo Street to Loma Alta
FAU Classification	Minor Arterial
Width	64 Feet
Length	2467 Feet
Striping, Parking and Land Use	Island Median, Two-Way, Broken White Lanes, Bike Lanes, No Parking, School and Harbor
Existing Posted Speed Limit	35 miles per hour (mph)
85th Percentile Speed	38.7 mph
Pace	28.5 to 38.5 mph
Average Daily Traffic	12,476
Special Characteristics	Bicyclist safety
Engineer's Determination of Speed Limit	35 miles per hour (mph)
Speed Survey Expiry Date:	08/04/2021
Date prepared	08/04/2014

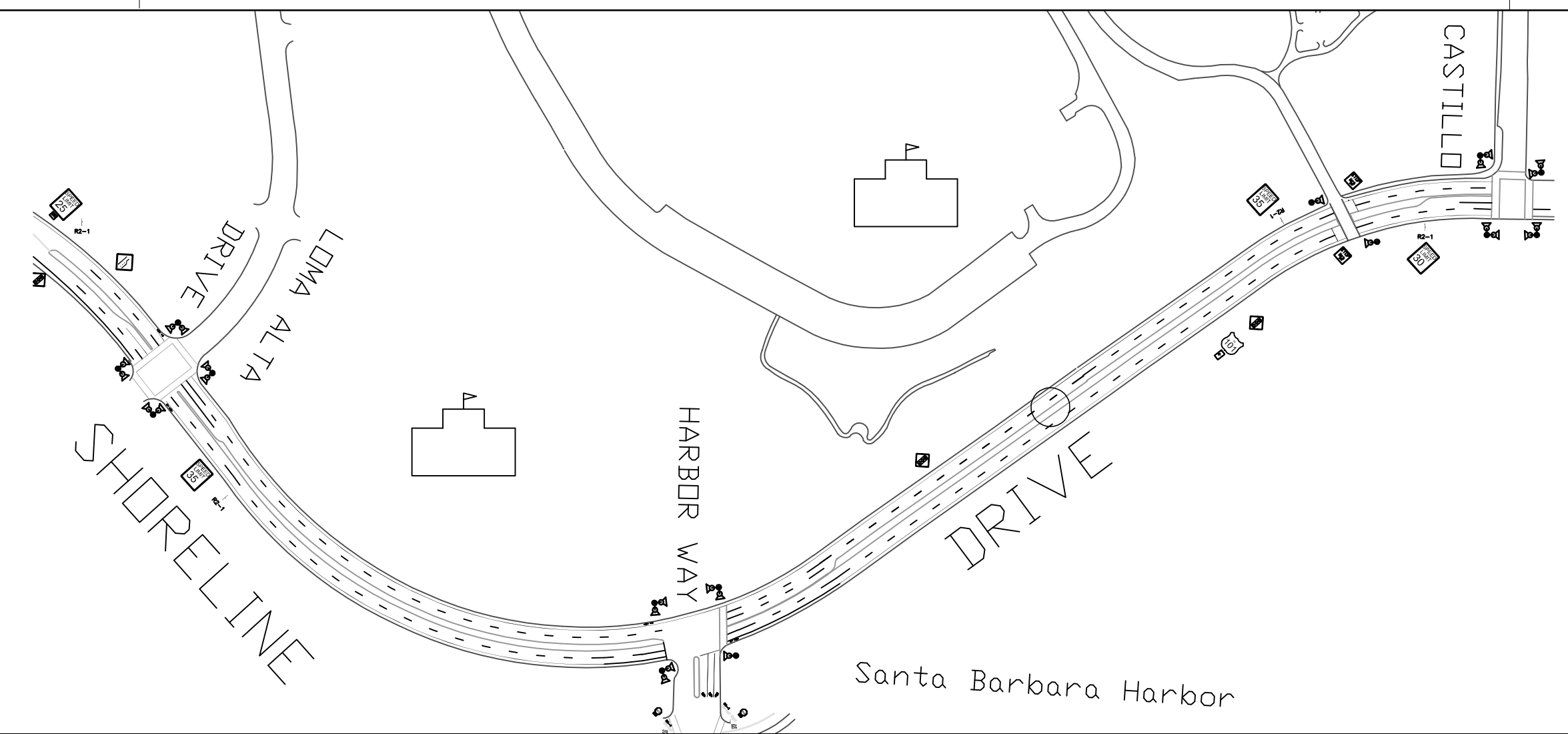
City of Santa Barbara
Derrick Bailey P.E., T.E.
Supervising Transportation Engineer
Registered Civil Engineer Number C 65726



10.9.14

GRADIENT
ROADSIDE DEVELOPMENT
REMARKS:

Santa Barbara City Collage and Harbor



CITY OF SANTA BARBARA



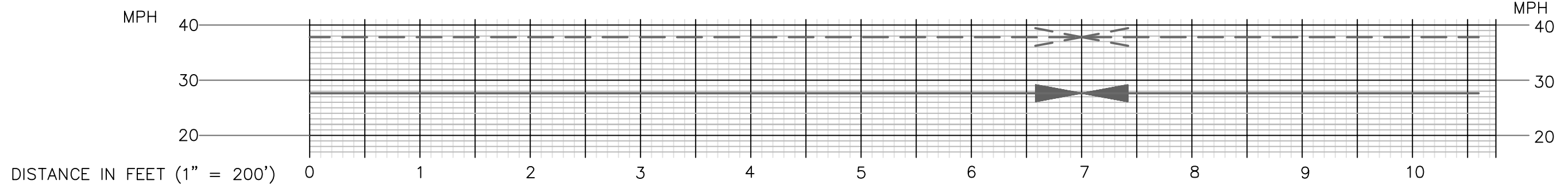
SPEED ZONE SURVEY
Shoreline Drive

FROM Castillo Street
TO Loma Alta Drive
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

ROADWAY WIDTH	64 FEET
AVERAGE DAILY TRAFFIC	12,476
NO. OF STRIPED LANES	FOUR
TYPE OF DIVISION STRIPE	Broken Lane Lines - Median Islands
OBSERVED SPEED CRITICAL	37.9 MPH - OBSERVED 85th PERCENTILE SPEED
OBSERVED SPEED 10 mph PACE	28.5 to 38.5 MPH OBSERVED 10mph PACE
EXISTING SIGNED ZONE	35 MPH - EXISTING SIGNED ZONE
PROPOSED SPEED LIMIT	35 MPH



SEGMENT COLLISION RATE	1.25 acc/MVM
2009 DISTRICT 5 URBAN 4+DIV	2.38 acc/MVM
2009 DISTRICT 3 yr 4 DIV	(1.60 acc/MVM)

CRITICAL SPEED - 85%
LOWER LIMIT OF 10mph PACE

City of Santa Barbara

Description 1: Shoreline Drive 401
 Description 2:
 Description 3: C7 Aug 2014

Site:
 Wednesday, 8/20/2014, 12:00:00 AM -
 Thursday, 8/21/2014, 12:00:00 AM

Speed Grand Totals WB

mph	Total	Hourly Averages												
		0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
12:00 AM	23.0	0.0	0.0	0.0	2.0	9.0	7.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
1:00 AM	11.0	0.0	1.0	0.0	3.0	2.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
2:00 AM	6.0	0.0	0.0	0.0	2.0	1.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
3:00 AM	10.0	0.0	0.0	0.0	2.0	4.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
4:00 AM	20.0	0.0	0.0	0.0	4.0	10.0	5.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
5:00 AM	47.0	0.0	0.0	0.0	5.0	23.0	10.0	8.0	0.0	1.0	0.0	0.0	0.0	0.0
6:00 AM	188.0	0.0	0.0	2.0	20.0	57.0	74.0	28.0	6.0	0.0	1.0	0.0	0.0	0.0
7:00 AM	223.0	1.0	1.0	5.0	24.0	82.0	82.0	23.0	3.0	2.0	0.0	0.0	0.0	0.0
8:00 AM	302.0	0.0	0.0	6.0	41.0	96.0	110.0	39.0	8.0	1.0	0.0	0.0	0.0	1.0
9:00 AM	344.0	0.0	0.0	2.0	49.0	138.0	111.0	30.0	9.0	0.0	0.0	0.0	2.0	3.0
10:00 AM	359.0	2.0	1.0	4.0	70.0	158.0	97.0	21.0	4.0	2.0	0.0	0.0	0.0	0.0
11:00 AM	499.0	1.0	6.0	7.0	81.0	188.0	154.0	46.0	10.0	3.0	0.0	0.0	1.0	2.0
12:00 PM	482.0	1.0	8.0	25.0	52.0	187.0	150.0	50.0	6.0	0.0	0.0	0.0	1.0	2.0
1:00 PM	528.0	3.0	7.0	15.0	84.0	209.0	153.0	49.0	6.0	1.0	0.0	0.0	0.0	1.0
2:00 PM	464.0	3.0	2.0	11.0	71.0	192.0	147.0	28.0	6.0	2.0	0.0	1.0	0.0	1.0
3:00 PM	515.0	2.0	2.0	10.0	55.0	219.0	168.0	49.0	5.0	3.0	0.0	0.0	0.0	2.0
4:00 PM	583.0	2.0	4.0	13.0	69.0	236.0	189.0	50.0	12.0	3.0	1.0	0.0	0.0	4.0
5:00 PM	647.0	4.0	4.0	9.0	110.0	275.0	182.0	49.0	7.0	1.0	3.0	1.0	0.0	2.0
6:00 PM	529.0	1.0	0.0	4.0	75.0	239.0	161.0	42.0	3.0	1.0	1.0	1.0	0.0	1.0
7:00 PM	350.0	2.0	2.0	10.0	54.0	146.0	98.0	23.0	10.0	1.0	0.0	2.0	1.0	1.0
8:00 PM	232.0	0.0	0.0	2.0	39.0	92.0	73.0	23.0	3.0	0.0	0.0	0.0	0.0	0.0
9:00 PM	131.0	0.0	0.0	1.0	19.0	47.0	39.0	21.0	3.0	1.0	0.0	0.0	0.0	0.0
10:00 PM	82.0	0.0	0.0	0.0	14.0	32.0	22.0	12.0	0.0	2.0	0.0	0.0	0.0	0.0
11:00 PM	49.0	0.0	0.0	4.0	2.0	17.0	18.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
ADT	6624.0	22.0	38.0	130.0	947.0	2659.0	2057.0	608.0	103.0	24.0	6.0	5.0	5.0	20.0

Percentile Speeds (mph)	<u>10%</u>	<u>15%</u>	<u>50%</u>	<u>85%</u>	<u>90%</u>
	28.7	29.7	34.3	39.3	40.5

10 mph Pace Speed	29.2 - 39.2	Average	34.6 mph
Number in Pace	9241 (72.5 %)	Minimum	5.5 mph
		Maximum	99.1 mph

Speeds Exceeded	<u>45 mph</u>	<u>55 mph</u>	<u>65 mph</u>
Count	2.6 % 326	0.6 % 77	0.5 % 60

mph	Total	Study Grand Totals												
		0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
WB	6624	22	38	130	947	2659	2057	608	103	24	6	5	5	20
		0.3%	0.6%	2.0%	14.3%	40.1%	31.1%	9.2%	1.6%	0.4%	0.1%	0.1%	0.1%	0.3%

City of Santa Barbara

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Site:
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Speed Grand Totals
 EB

mph	Total	Hourly Averages												
		0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
12:00 AM	19.0	0.0	0.0	2.0	2.0	12.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
1:00 AM	7.0	0.0	0.0	0.0	1.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2:00 AM	5.0	0.0	1.0	0.0	0.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
3:00 AM	4.0	0.0	0.0	0.0	1.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4:00 AM	10.0	0.0	0.0	2.0	2.0	2.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5:00 AM	27.0	0.0	0.0	1.0	7.0	8.0	10.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
6:00 AM	85.0	0.0	0.0	5.0	17.0	38.0	20.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0
7:00 AM	186.0	0.0	0.0	0.0	31.0	69.0	62.0	21.0	3.0	0.0	0.0	0.0	0.0	0.0
8:00 AM	289.0	0.0	1.0	8.0	35.0	111.0	108.0	24.0	2.0	0.0	0.0	0.0	0.0	0.0
9:00 AM	253.0	2.0	0.0	6.0	48.0	100.0	80.0	12.0	4.0	0.0	1.0	0.0	0.0	0.0
10:00 AM	304.0	0.0	2.0	6.0	58.0	125.0	89.0	22.0	0.0	1.0	0.0	0.0	1.0	0.0
11:00 AM	361.0	0.0	1.0	11.0	73.0	150.0	89.0	34.0	3.0	0.0	0.0	0.0	0.0	0.0
12:00 PM	433.0	0.0	2.0	14.0	89.0	178.0	109.0	33.0	5.0	1.0	0.0	0.0	0.0	2.0
1:00 PM	464.0	1.0	3.0	26.0	93.0	190.0	116.0	27.0	5.0	3.0	0.0	0.0	0.0	0.0
2:00 PM	452.0	1.0	1.0	23.0	112.0	192.0	93.0	24.0	2.0	2.0	0.0	0.0	1.0	1.0
3:00 PM	494.0	1.0	1.0	22.0	106.0	209.0	127.0	21.0	4.0	1.0	0.0	0.0	1.0	1.0
4:00 PM	441.0	1.0	3.0	23.0	115.0	173.0	94.0	24.0	4.0	1.0	0.0	0.0	2.0	1.0
5:00 PM	408.0	0.0	3.0	17.0	92.0	170.0	103.0	20.0	2.0	1.0	0.0	0.0	0.0	0.0
6:00 PM	342.0	0.0	3.0	12.0	67.0	137.0	96.0	22.0	3.0	1.0	0.0	0.0	1.0	0.0
7:00 PM	471.0	3.0	1.0	16.0	120.0	191.0	109.0	23.0	7.0	1.0	0.0	0.0	0.0	0.0
8:00 PM	431.0	0.0	2.0	12.0	113.0	192.0	93.0	13.0	4.0	1.0	0.0	0.0	0.0	1.0
9:00 PM	190.0	0.0	0.0	12.0	46.0	70.0	48.0	9.0	4.0	1.0	0.0	0.0	0.0	0.0
10:00 PM	114.0	0.0	3.0	6.0	24.0	44.0	29.0	7.0	1.0	0.0	0.0	0.0	0.0	0.0
11:00 PM	62.0	0.0	1.0	4.0	12.0	30.0	12.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
ADT	5852.0	9.0	28.0	228.0	1264.0	2399.0	1497.0	345.0	55.0	14.0	1.0	0.0	6.0	6.0

Percentile Speeds (mph)	<u>10%</u> 27.1	<u>15%</u> 28.2	<u>50%</u> 33.0	<u>85%</u> 37.9	<u>90%</u> 39.2
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10 mph Pace Speed	27.7 - 37.7	Average	33.2 mph
Number in Pace	8133 (71.3 %)	Minimum	5.2 mph
		Maximum	98.1 mph

Speeds Exceeded	<u>45 mph</u>	<u>55 mph</u>	<u>65 mph</u>
Count	1.4 % 154	0.3 % 30	0.2 % 27

mph	Total	Study Grand Totals												
		0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
EB	5852	9	28	228	1264	2399	1497	345	55	14	1	0	6	6
		0.2%	0.5%	3.9%	21.6%	41.0%	25.6%	5.9%	0.9%	0.2%	0.0%	0.0%	0.1%	0.1%

City of Santa Barbara

Description 1: Shoreline Drive 401
 Description 2:
 Description 3: C7 Aug 2014

Site:
 Wednesday, 8/20/2014, 12:00:00 AM -
 Thursday, 8/21/2014, 12:00:00 AM

Volume Grand Totals

Average Interval Volumes

	WB		EB		Combined			WB		EB		Combined	
12:00 AM	8.0	23.0	7.0	19.0	15.0	42.0	12:00 PM	122.0	482.0	116.0	433.0	238.0	915.0
12:15 AM	8.0		7.0		15.0		12:15 PM	125.0		102.0		227.0	
12:30 AM	4.0		4.0		8.0		12:30 PM	123.0		95.0		218.0	
12:45 AM	3.0		1.0		4.0		12:45 PM	112.0		120.0		232.0	
1:00 AM	5.0	11.0	3.0	7.0	8.0	18.0	1:00 PM	154.0	528.0	136.0	464.0	290.0	992.0
1:15 AM	1.0		0.0		1.0		1:15 PM	126.0		96.0		222.0	
1:30 AM	1.0		4.0		5.0		1:30 PM	129.0		106.0		235.0	
1:45 AM	4.0		0.0		4.0		1:45 PM	119.0		126.0		245.0	
2:00 AM	0.0	6.0	1.0	5.0	1.0	11.0	2:00 PM	118.0	464.0	122.0	452.0	240.0	916.0
2:15 AM	2.0		3.0		5.0		2:15 PM	117.0		108.0		225.0	
2:30 AM	2.0		0.0		2.0		2:30 PM	113.0		116.0		229.0	
2:45 AM	2.0		1.0		3.0		2:45 PM	116.0		106.0		222.0	
3:00 AM	2.0	10.0	0.0	4.0	2.0	14.0	3:00 PM	119.0	515.0	133.0	494.0	252.0	1009.0
3:15 AM	3.0		2.0		5.0		3:15 PM	113.0		117.0		230.0	
3:30 AM	2.0		1.0		3.0		3:30 PM	148.0		123.0		271.0	
3:45 AM	3.0		1.0		4.0		3:45 PM	135.0		121.0		256.0	
4:00 AM	2.0	20.0	3.0	10.0	5.0	30.0	4:00 PM	164.0	583.0	137.0	441.0	301.0	1024.0
4:15 AM	2.0		1.0		3.0		4:15 PM	162.0		104.0		266.0	
4:30 AM	5.0		3.0		8.0		4:30 PM	127.0		105.0		232.0	
4:45 AM	11.0		3.0		14.0		4:45 PM	130.0		95.0		225.0	
5:00 AM	3.0	47.0	3.0	27.0	6.0	74.0	5:00 PM	152.0	647.0	95.0	408.0	247.0	1055.0
5:15 AM	10.0		3.0		13.0		5:15 PM	174.0		90.0		264.0	
5:30 AM	9.0		9.0		18.0		5:30 PM	174.0		114.0		288.0	
5:45 AM	25.0		12.0		37.0		5:45 PM	147.0		109.0		256.0	
6:00 AM	26.0	188.0	16.0	85.0	42.0	273.0	6:00 PM	175.0	529.0	108.0	342.0	283.0	871.0
6:15 AM	35.0		10.0		45.0		6:15 PM	135.0		78.0		213.0	
6:30 AM	62.0		19.0		81.0		6:30 PM	113.0		77.0		190.0	
6:45 AM	65.0		40.0		105.0		6:45 PM	106.0		79.0		185.0	
7:00 AM	40.0	223.0	33.0	186.0	73.0	409.0	7:00 PM	108.0	350.0	100.0	471.0	208.0	821.0
7:15 AM	53.0		30.0		83.0		7:15 PM	85.0		115.0		200.0	
7:30 AM	61.0		52.0		113.0		7:30 PM	80.0		126.0		206.0	
7:45 AM	69.0		71.0		140.0		7:45 PM	77.0		130.0		207.0	
8:00 AM	68.0	302.0	72.0	289.0	140.0	591.0	8:00 PM	77.0	232.0	136.0	431.0	213.0	663.0
8:15 AM	71.0		67.0		138.0		8:15 PM	52.0		128.0		180.0	
8:30 AM	74.0		69.0		143.0		8:30 PM	49.0		102.0		151.0	
8:45 AM	89.0		81.0		170.0		8:45 PM	54.0		65.0		119.0	
9:00 AM	95.0	344.0	56.0	253.0	151.0	597.0	9:00 PM	37.0	131.0	69.0	190.0	106.0	321.0
9:15 AM	78.0		64.0		142.0		9:15 PM	35.0		45.0		80.0	
9:30 AM	83.0		61.0		144.0		9:30 PM	27.0		34.0		61.0	
9:45 AM	88.0		72.0		160.0		9:45 PM	32.0		42.0		74.0	
10:00 AM	81.0	359.0	67.0	304.0	148.0	663.0	10:00 PM	25.0	82.0	40.0	114.0	65.0	196.0
10:15 AM	86.0		73.0		159.0		10:15 PM	25.0		28.0		53.0	
10:30 AM	87.0		80.0		167.0		10:30 PM	23.0		27.0		50.0	
10:45 AM	105.0		84.0		189.0		10:45 PM	9.0		19.0		28.0	
11:00 AM	127.0	499.0	84.0	361.0	211.0	860.0	11:00 PM	20.0	49.0	18.0	62.0	38.0	111.0
11:15 AM	119.0		78.0		197.0		11:15 PM	11.0		11.0		22.0	
11:30 AM	127.0		96.0		223.0		11:30 PM	8.0		22.0		30.0	
11:45 AM	126.0		103.0		229.0		11:45 PM	10.0		11.0		21.0	

	ADT	WB	EB	Combined
Study Volume Totals		6624.0	5852.0	12476.0
		6624	5852	12476
		53.1 %	46.9 %	

Shoreline Drive

From: Castillo to Loma Alta

Segment length in feet	2,467	
Number of collisions =	8	See below.
AADT	12,476	
Time period in years =	3	01/01/10-12/31/12
Segment Collision rate =	1.25	ACC/MVM
2009 District 5 Urban 4+DIV =	2.38	ACC/MVM
2009 Statewide 3 yr 4+DIV =	1.60	ACC/MVM

	CASE ID	STREET 1	STREET 2	COLL TYPE	DATE	TIME
1	4562649	SHORELINE DR	CASTILLO ST	Rear end	1/16/2010	8:25
2	4679554	SHORELINE DR	HARBOR WAY	Hit object	4/30/2010	15:13
3	5081198	SHORELINE DR	LOMA ALTA DR	Auto-ped	1/19/2011	10:17
4	5275235	SHORELINE DR	HARBOR WAY	Side swipe	8/7/2011	17:33
5	5371381	SHORELINE DR	CASTILLO ST	Rear end	9/28/2011	19:15
6	5532091	SHORELINE DR	HARBOR WAY	Hit object	2/24/2012	14:51
7	5738144	SHORELINE DR	LOMA ALTA DR	Rear end	7/3/2012	13:57
8	5867332	SHORELINE DR	CASTILLO ST	Side swipe	10/19/2012	15:30