

CITY OF WEST HOLLYWOOD
DEPARTMENT OF PUBLIC WORKS
Engineering and Traffic Survey, October 2016

Vista Street between Santa Monica Boulevard and Willoughby Avenue

This engineering and traffic survey (E&TS) was prepared for the segment of Vista Street between Santa Monica Boulevard and Willoughby Avenue in accordance with California Vehicle Code (CVC) Section 627, and is required under CVC 40802 if speed limits are to be enforced by radar or any other electronic device that measures the speed of moving objects. CVC 40802 requires speed zones to be evaluated on a recurring basis to avoid being a "speed trap". If the E&TS is more than 5 years old, courts may reject evidence of speeding obtained through radar or other electronic devices. Engineering and traffic surveys may be up to 7 years old if conditions under CVC 40802(c)(1) related to enforcement training and equipment certification have been met.

Vista Street is designated as a local street in the City of West Hollywood General Plan. The adjacent land-use is a high-density residential neighborhood with angle parking on both sides of the street.

The posted speed limit for this section of Vista Street is 25 mph based on a 2011 E&TS. Speed data collected on April 5, 2016 revealed the 85th percentile speed to be 34 mph.

CVC 21400(b) requires the local authority to round speed limits to the nearest five miles per hour of the 85th percentile of the free-flowing traffic. However, in cases in which the speed limit needs to be rounded up to the nearest five miles per hour increment of the 85th-percentile speed, the local authority may instead optionally round down the speed limit to the lower five miles per hour increment, but then the local authority shall not reduce the speed limit any further for any reason. This round-down option is described under Option 2 in the California Manual of Uniform Traffic Devices, Section 2B.13 Paragraph 12a. This engineering and traffic survey recommends applying the Option 2 round-down thereby setting the speed limit at 30 mph, which is higher than the existing 25 mph speed limit.

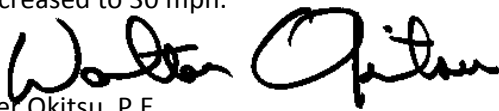
Application of the CVC 21400(b) Option 2 round-down precludes further reduction in the speed limit. Nevertheless, the following are provided to fulfill the requirements of CVC 627(b):

- Accident Records: The expected collision rate on a 2-lane highway is 1.98 per million vehicle miles (MVM). With 4 collisions recorded over a two-year period and 7,686 average daily traffic, the collision rate has been 5.48 per MVM, which exceeds the expected rate.

- Highway, traffic, and roadside conditions not readily apparent to the driver: No downward speed zoning is recommended based on highway, traffic, and roadside conditions not readily apparent to the driver.

Recommendation

Based on prevailing speeds rounded down per Option 2, the existing posted speed limit of 25 mph should be increased to 30 mph.



Walter Okitsu, P.E.

Registered Traffic Engineer, Calif. TE 1406

APPENDIX D: Spot Speed Studies

Spot Speed Study

Prepared by: National Data & Surveying Services

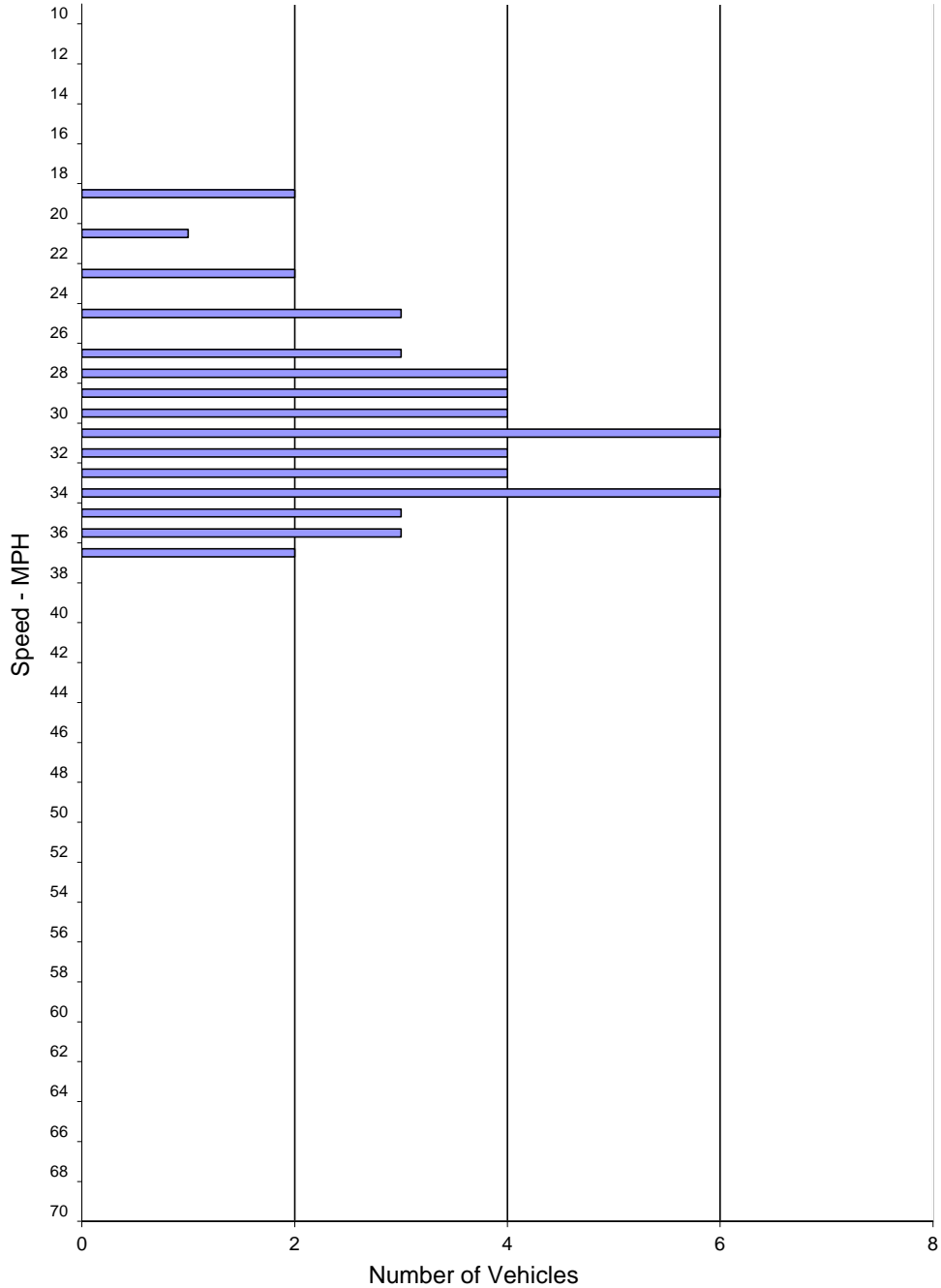
City of West Hollywood

DATE: 4/5/2016
DAY: Tuesday

Location: Gardner St/Vista St Bet. Fountain Ave & Romaine St
Posted Speed: 25 MPH Project #: 16-5198-012

Northbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	
12	
13	
14	
15	
16	
17	
18	
19	2
20	
21	1
22	
23	2
24	
25	3
26	
27	3
28	4
29	4
30	4
31	6
32	4
33	4
34	6
35	3
36	3
37	2
38	
39	
40	
41	
42	
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69	
>=70	



SPEED PARAMETERS										
Class	Count	Average Speed	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	51	30.3	19 - 37	31 mph	35 mph	27 - 36	41	80%	15% / 8	4% / 2

Spot Speed Study

Prepared by: National Data & Surveying Services

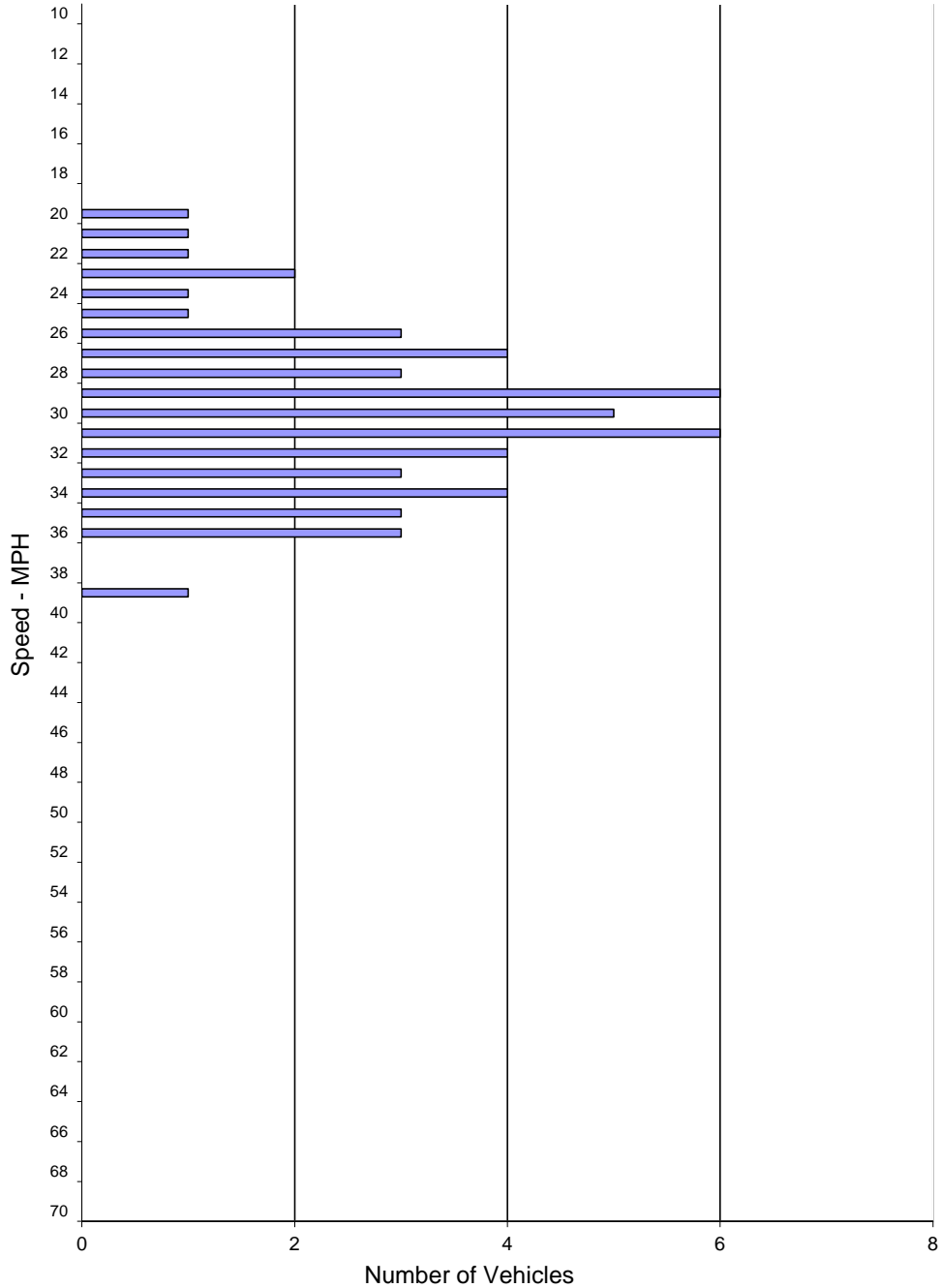
City of West Hollywood

DATE: 4/5/2016
DAY: Tuesday

Location: Gardner St/Vista St Bet. Fountain Ave & Romaine St
Posted Speed: 25 MPH Project #: 16-5198-012

Southbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	1
21	1
22	1
23	2
24	1
25	1
26	3
27	4
28	3
29	6
30	5
31	6
32	4
33	3
34	4
35	3
36	3
37	
38	
39	1
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>=70	



SPEED PARAMETERS										
Class	Count	Average Speed	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	52	29.9	20 - 39	30 mph	34 mph	26 - 35	41	79%	13% / 7	8% / 4

Spot Speed Study

Prepared by: National Data & Surveying Services

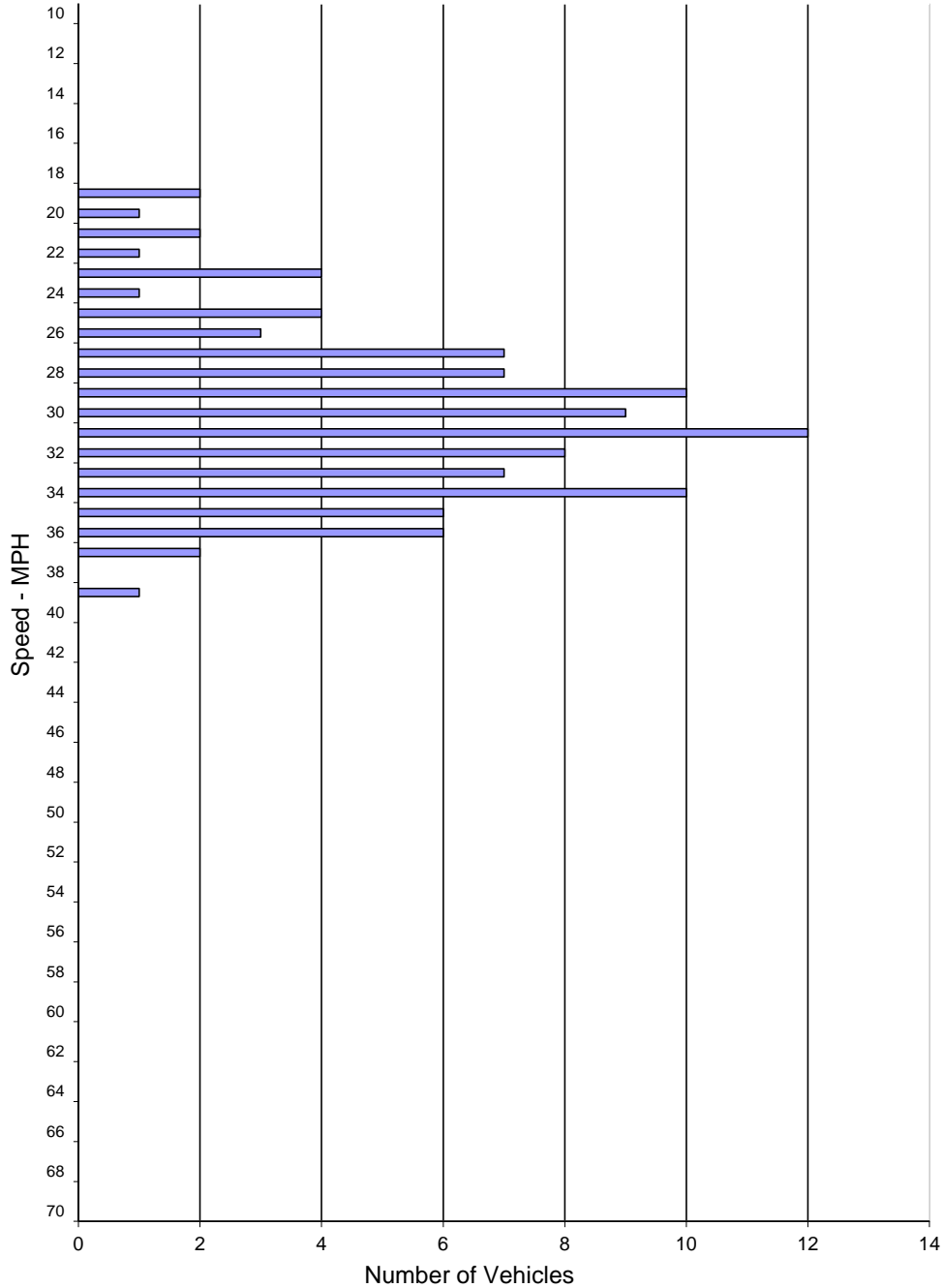
City of West Hollywood

DATE: 4/5/2016
DAY: Tuesday

Location: Gardner St/Vista St Bet. Fountain Ave & Romaine St
Posted Speed: 25 MPH Project #: 16-5198-012

Northbound & Southbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	
12	
13	
14	
15	
16	
17	
18	
19	2
20	1
21	2
22	1
23	4
24	1
25	4
26	3
27	7
28	7
29	10
30	9
31	12
32	8
33	7
34	10
35	6
36	6
37	2
38	
39	1
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>=70	



SPEED PARAMETERS										
Class	Count	Average Speed	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	103	30.1	19 - 39	31 mph	34 mph	27 - 36	82	80%	17% / 18	3% / 3

APPENDIX E: 24-Hour Counts

VOLUME

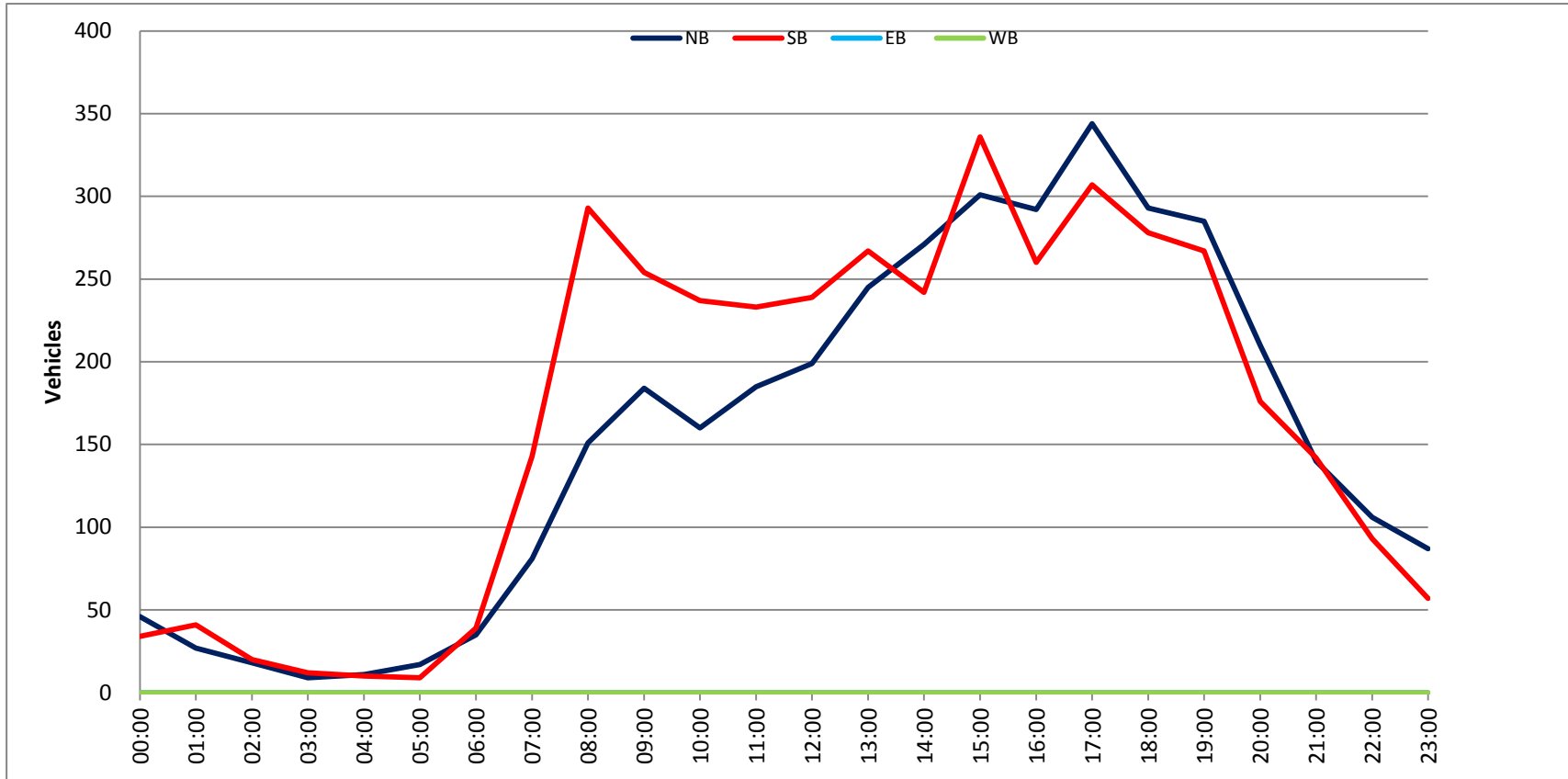
Gardner St/Vista St Bet. Fountain Ave & Romaine St

Day: Thursday
Date: 3/31/2016

City: West Hollywood
Project #: CA16_5199_012

DAILY TOTALS					NB	SB	EB	WB	Total		
					3,697	3,989	0	0	7,686		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
00:00	21	7			28	12:00	54	52			106
00:15	15	11			26	12:15	42	58			100
00:30	5	13			18	12:30	52	67			119
00:45	5	46	3	34	8	12:45	51	199	62	239	113
01:00	8	16			24	13:00	64	73			137
01:15	7	5			12	13:15	58	63			121
01:30	3	7			10	13:30	58	72			130
01:45	9	27	13	41	22	13:45	65	245	59	267	124
02:00	9	8			17	14:00	63	52			115
02:15	2	5			7	14:15	73	62			135
02:30	4	5			9	14:30	59	61			120
02:45	3	18	2	20	5	14:45	76	271	67	242	143
03:00	2	3			5	15:00	62	63			125
03:15	2	5			7	15:15	73	100			173
03:30	1	2			3	15:30	82	83			165
03:45	4	9	2	12	6	15:45	84	301	90	336	174
04:00	3	2			5	16:00	72	62			134
04:15	3	2			5	16:15	80	64			144
04:30	1	2			3	16:30	77	64			141
04:45	4	11	4	10	8	16:45	63	292	70	260	133
05:00	6	1			7	17:00	74	79			153
05:15	2	1			3	17:15	86	78			164
05:30	5	3			8	17:30	90	71			161
05:45	4	17	4	9	8	17:45	94	344	79	307	173
06:00	8	6			14	18:00	61	81			142
06:15	7	2			9	18:15	89	66			155
06:30	6	12			18	18:30	80	68			148
06:45	14	35	19	39	33	18:45	63	293	63	278	126
07:00	6	17			23	19:00	88	71			159
07:15	15	25			40	19:15	62	67			129
07:30	22	31			53	19:30	75	75			150
07:45	38	81	70	143	108	19:45	60	285	54	267	114
08:00	45	66			111	20:00	67	52			119
08:15	29	69			98	20:15	49	51			100
08:30	29	72			101	20:30	50	37			87
08:45	48	151	86	293	134	20:45	44	210	36	176	80
09:00	45	72			117	21:00	38	36			74
09:15	51	66			117	21:15	31	32			63
09:30	53	67			120	21:30	44	47			91
09:45	35	184	49	254	84	21:45	27	140	27	142	54
10:00	39	60			99	22:00	17	31			48
10:15	25	61			86	22:15	28	18			46
10:30	53	58			111	22:30	37	28			65
10:45	43	160	58	237	101	22:45	24	106	16	93	40
11:00	53	89			142	23:00	30	18			48
11:15	39	42			81	23:15	23	13			36
11:30	44	52			96	23:30	16	12			28
11:45	49	185	50	233	99	23:45	18	87	14	57	32
TOTALS	924	1325			2249	TOTALS	2773	2664			5437
SPLIT %	41.1%	58.9%			29.3%	SPLIT %	51.0%	49.0%			70.7%

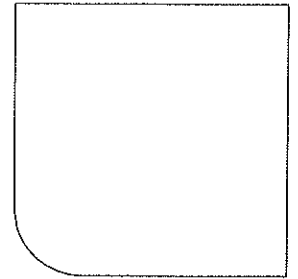
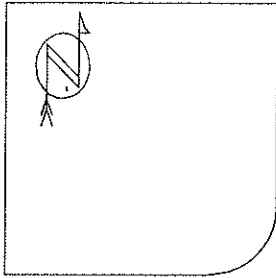
DAILY TOTALS					NB	SB	EB	WB	Total
					3,697	3,989	0	0	7,686
AM Peak Hour	08:45	08:15			08:45	PM Peak Hour	17:00	15:00	17:00
AM Pk Volume	197	299			488	PM Pk Volume	344	336	651
Pk Hr Factor	0.929	0.869			0.910	Pk Hr Factor	0.915	0.840	0.941
7 - 9 Volume	232	436	0	0	668	4 - 6 Volume	636	567	0
7 - 9 Peak Hour	08:00	08:00			08:00	4 - 6 Peak Hour	17:00	17:00	17:00
7 - 9 Pk Volume	151	293	0	0	444	4 - 6 Pk Volume	344	307	0
Pk Hr Factor	0.786	0.852	0.000	0.000	0.828	Pk Hr Factor	0.915	0.972	0.000



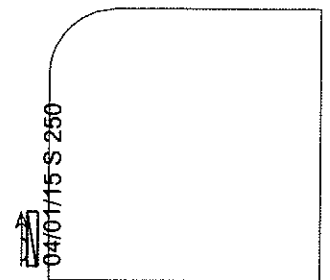
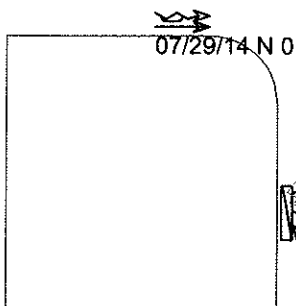
APPENDIX F: Collision Data

Vista St Santa Monica Bl to Romaine St

4 Accidents 01/01/14 - 12/31/15



02/13/15 S 130



(clear filter), (0) accidents with insufficient data for display

- | | | | |
|--------------|-------------------|--------------|---------------------|
| ← Straight | ▬ Parked | × Pedestrian | Fixed objects: |
| ← Stopped | ←~ Erratic | ⊗ Bicycle | □ General □ Pole |
| ← Unknown | ←~ Out of control | ○ Injury | ▣ Signal ▣ Curb |
| ↔ Backing | ↘ Right turn | ⊙ Fatality | ▣ Tree ☞ Animal |
| ↔ Overtaking | ↙ Left turn | ⊙ Nighttime | ◁ 3rd vehicle |
| ↔ Sideswipe | ↪ U-turn | ⊙ DUI | * Extra data |

Accident listing

01/01/2014 - 12/31/2015

Vista St Santa Monica Bl to Romaine St

Sorted by <DATE;TIME;ACC#>

STREET 1	DATE	TIME	DAY	DIST	DIR	FROM	INT	KILL	INJ	VEH 1 DIR	VEH 1 TYPE	VEH 1 MOV	VEH 1 SOBER	VE
STREET 2	LIGHTING	COLL	TYPE	VIOL	CAT					VEH 2 DIR	VEH 2 TYPE	VEH 2 MOV	VEH 2 SOBER	VE
WEATHER	ROAD SURF	ROAD COND	CONTROLS	PED	ACTION					VEH 3 DIR	VEH 3 TYPE	VEH 3 MOV	VEH 3 SOBER	VE
SANTA MONICA	07/29/14	9:30	Tue	0	Not stated	0	0	0	0	EAST	Car	Changing l	HNBD (not)	24
VISTA ST	Daylight	Side swipe	Improper turning							EAST	Car	Straight	HNBD (not)	48
Clear Dry	No unusua	Not func	No ped involved							Not stated	Not stated	Not stated	Not stated	0
VISTA ST	09/14/14	23:30	Sun	200	South	0	0	0	0	SOUTH	Car	Straight	Not stated	26
SANTA MONICA	Dark- st	Side swipe	Not stated							SOUTH	Car	Parked	N/A	0
Clear Dry	No unusua	None	No ped involved							SOUTH	Car	Parked	N/A	0
VISTA ST	02/13/15	11:20	Fri	130	South	0	0	0	0	WEST	Car	Left turn	HNBD (not)	47
SANTA MONICA	Daylight	Head on	Auto right-of-way							NORTH	Car	Straight	HNBD (not)	41
Clear Dry	No unusua	None	No ped involved							Not stated	Not stated	Not stated	Not stated	0
VISTA ST	04/01/15	25:00	Wed	250	South	0	0	0	0	NORTH	Not stated	Parking ma	IU (H&R)	0
SANTA MONICA	Daylight	Side swipe	Improper turning							NORTH	Car	Parked	N/A	0
Clear Dry	No unusua	None	No ped involved							Not stated	Not stated	Not stated	Not stated	0