

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

Beverly Boulevard between Doheny Drive and east city limit

This engineering and traffic survey (E&TS) was prepared for the segment of Beverly Boulevard between Doheny Drive and east city limit 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.

Beverly Boulevard is classified as an arterial in the City of West Hollywood General Plan. The adjacent land use is high-density commercial. The street has parallel on-street parking on both sides of the street.

The posted speed limit is 35 mph based on an E&TS performed in 2011. Speed data collected on April 11, 2016 revealed the 85th percentile speed to be 38 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 retaining the existing 35 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 4-lane or more undivided highway is 3.55 per million vehicle miles (MVM). With 26 collisions recorded over a two-year period and 30,303 average daily traffic, the collision rate has been 1.90 per MVM, which is below 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 35 mph should be retained.



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

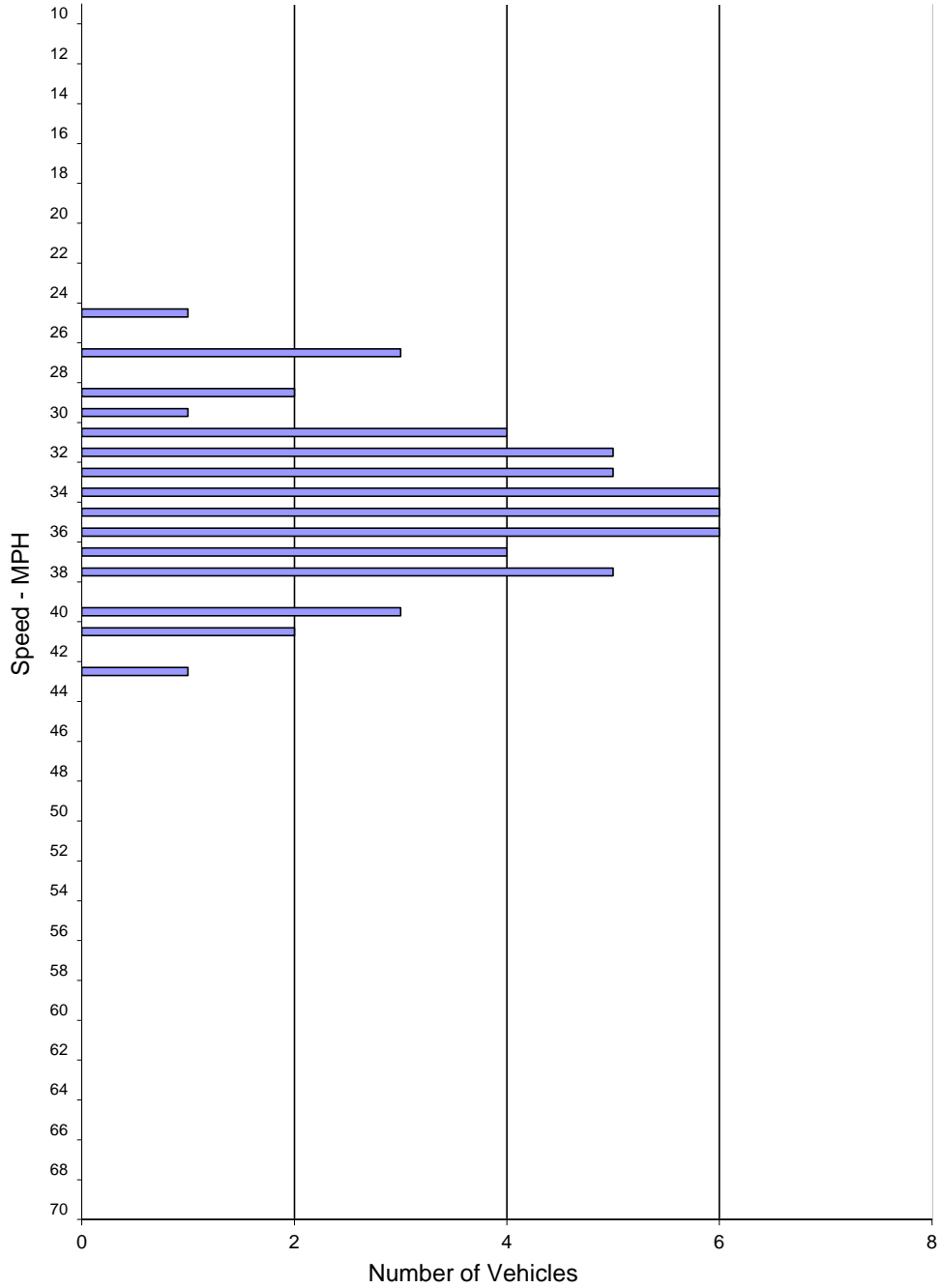
DATE: 4/11/2016
DAY: Monday

Location: Beverly Blvd W/O Clark Dr
Posted Speed: 35 MPH

Project #: 16-5198-001

Eastbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	
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27	3
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29	2
30	1
31	4
32	5
33	5
34	6
35	6
36	6
37	4
38	5
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40	3
41	2
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43	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	54	34.4	25 - 43	34 mph	38 mph	29 - 38	44	81%	7% / 4	12% / 6

Spot Speed Study

Prepared by: National Data & Surveying Services

City of West Hollywood

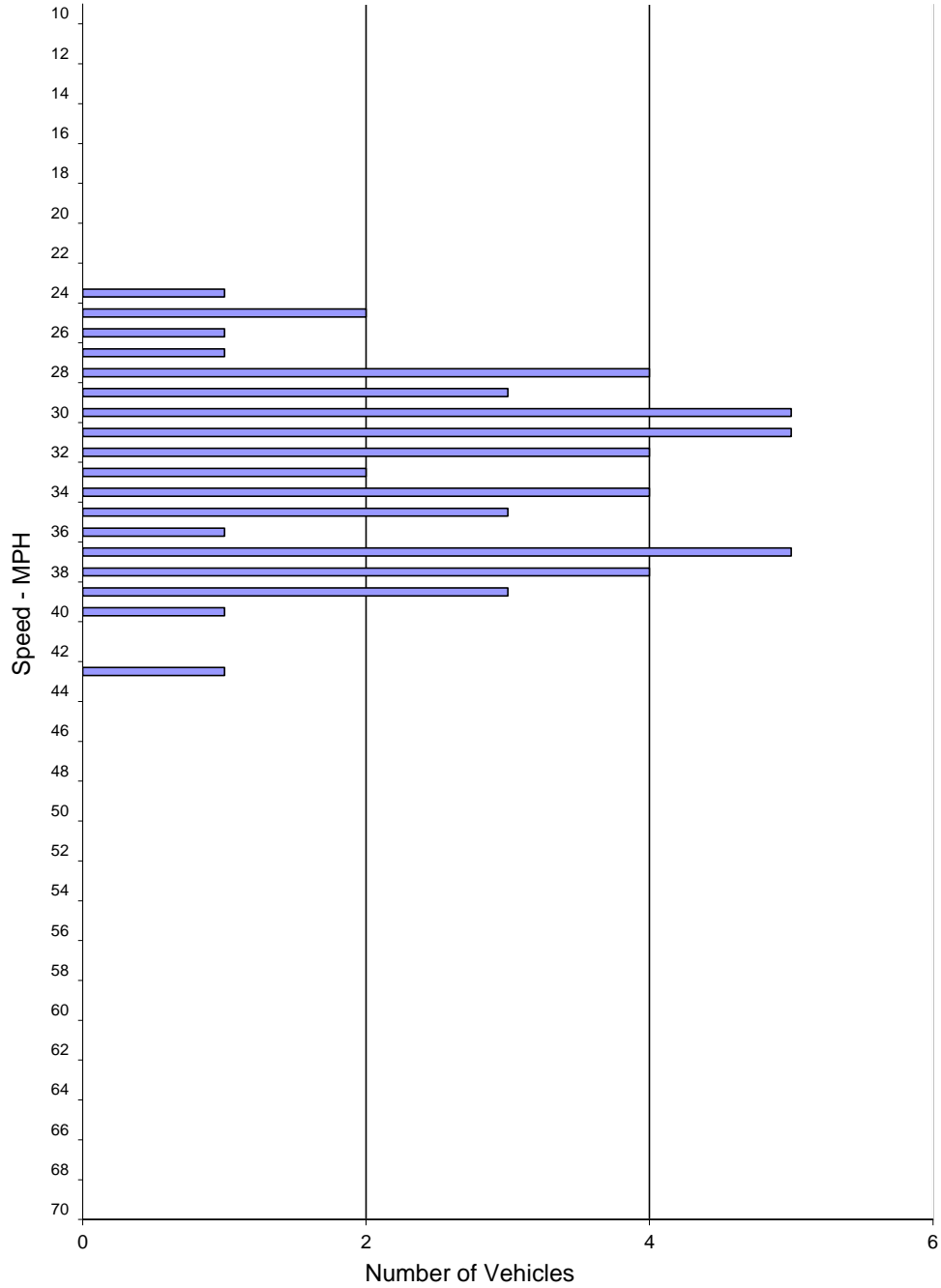
DATE: 4/11/2016
DAY: Monday

Location: Beverly Blvd W/O Clark Dr
Posted Speed: 35 MPH

Project #: 16-5198-001

Westbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	1
25	2
26	1
27	1
28	4
29	3
30	5
31	5
32	4
33	2
34	4
35	3
36	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	50	32.8	24 - 43	32 mph	38 mph	28 - 37	36	72%	10% / 5	18% / 9

Spot Speed Study

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City of West Hollywood

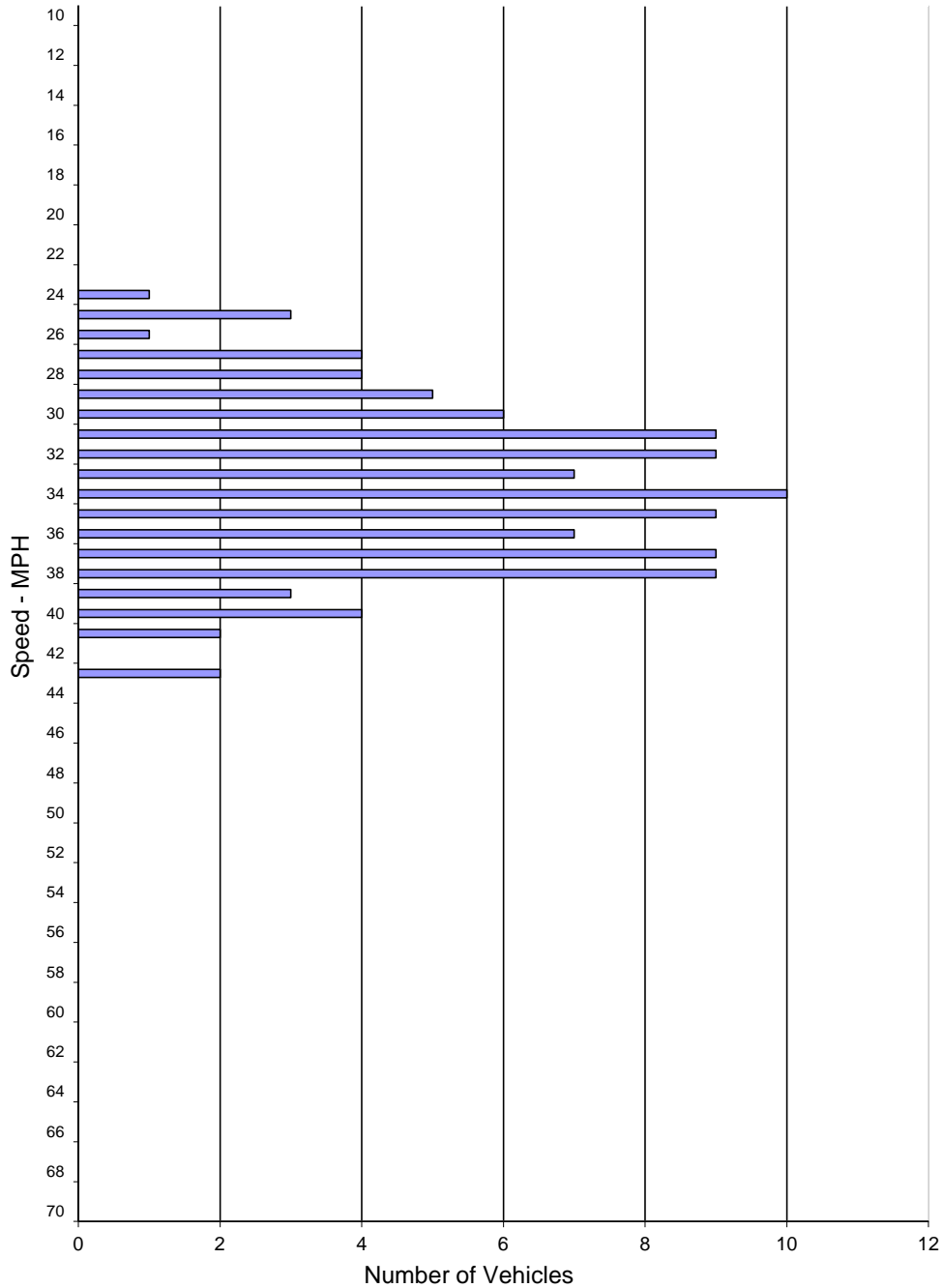
DATE: 4/11/2016
DAY: Monday

Location: Beverly Blvd W/O Clark Dr
Posted Speed: 35 MPH

Project #: 16-5198-001

Eastbound & Westbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
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28	4
29	5
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34	10
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38	9
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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	104	33.6	24 - 43	34 mph	38 mph	29 - 38	80	77%	12% / 13	11% / 11

APPENDIX E: 24-Hour Counts

VOLUME

Beverly Blvd W/O Clark Dr

Day: Tuesday
Date: 4/5/2016

City: West Hollywood
Project #: CA16_5199_001

DAILY TOTALS					NB	SB	EB	WB	Total			
					0	0	14,428	15,875	30,303			
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL	
00:00			57	32	89	12:00			239	243	482	
00:15			46	40	86	12:15			220	193	413	
00:30			39	26	65	12:30			216	229	445	
00:45			23	165	26	12:45			250	925	255	920
01:00			15	18	33	13:00			238	255	493	
01:15			19	13	32	13:15			219	246	465	
01:30			25	16	41	13:30			208	234	442	
01:45			12	71	11	13:45			198	863	234	969
02:00			18	15	33	14:00			221	241	462	
02:15			11	13	24	14:15			259	255	514	
02:30			13	9	22	14:30			240	261	501	
02:45			10	52	8	14:45			238	958	284	1041
03:00			8	9	17	15:00			217	228	445	
03:15			13	6	19	15:15			231	238	469	
03:30			6	6	12	15:30			273	234	507	
03:45			4	31	13	15:45			238	959	228	928
04:00			9	10	19	16:00			261	233	494	
04:15			9	13	22	16:15			261	252	513	
04:30			12	15	27	16:30			235	256	491	
04:45			11	41	24	16:45			266	1023	241	982
05:00			18	18	36	17:00			282	230	512	
05:15			17	23	40	17:15			268	236	504	
05:30			36	38	74	17:30			276	241	517	
05:45			43	114	55	17:45			257	1083	234	941
06:00			49	64	113	18:00			271	241	512	
06:15			54	99	153	18:15			287	241	528	
06:30			88	141	229	18:30			302	181	483	
06:45			123	314	172	18:45			327	1187	202	865
07:00			106	219	325	19:00			268	205	473	
07:15			135	304	439	19:15			263	171	434	
07:30			160	307	467	19:30			249	193	442	
07:45			176	577	370	19:45			206	986	183	752
08:00			180	324	504	20:00			215	184	399	
08:15			220	364	584	20:15			172	160	332	
08:30			213	376	589	20:30			153	143	296	
08:45			217	830	349	20:45			110	650	146	633
09:00			225	346	571	21:00			116	112	228	
09:15			218	362	580	21:15			108	109	217	
09:30			197	324	521	21:30			93	104	197	
09:45			216	856	293	21:45			102	419	93	418
10:00			198	268	466	22:00			94	101	195	
10:15			218	221	439	22:15			93	97	190	
10:30			209	262	471	22:30			103	80	183	
10:45			209	834	233	22:45			86	376	83	361
11:00			203	228	431	23:00			67	72	139	
11:15			213	242	455	23:15			65	63	128	
11:30			234	251	485	23:30			52	49	101	
11:45			221	871	248	23:45			59	243	57	241
TOTALS			4756	6824	11580	TOTALS			9672	9051	18723	
SPLIT %			41.1%	58.9%	38.2%	SPLIT %			51.7%	48.3%	61.8%	

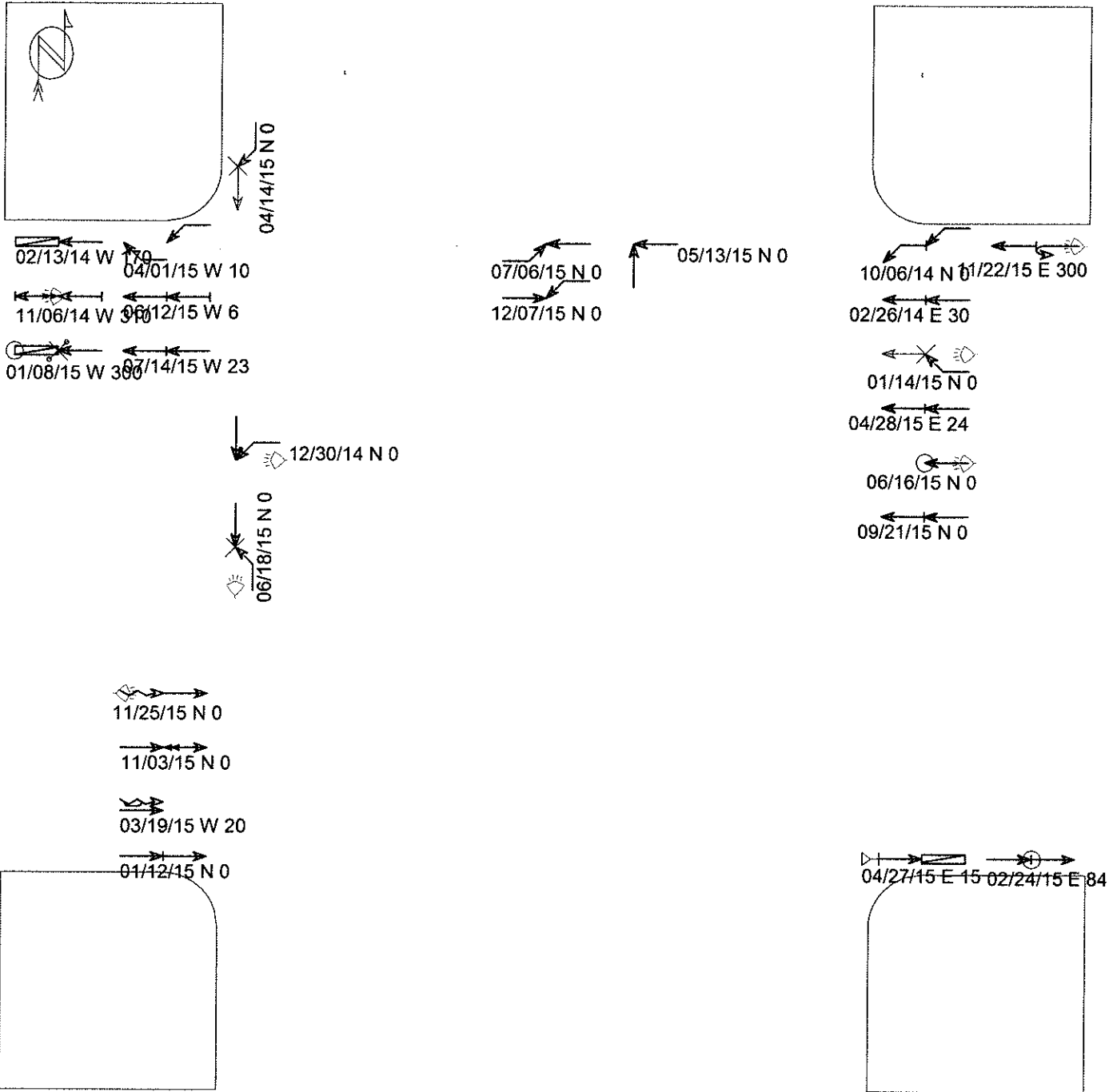
DAILY TOTALS					NB	SB	EB	WB	Total		
					0	0	14,428	15,875	30,303		
AM Peak Hour			11:30	08:15	08:15	PM Peak Hour			18:00	14:00	18:00
AM Pk Volume			914	1435	2310	PM Pk Volume			1187	1041	2052
Pk Hr Factor			0.956	0.954	0.980	Pk Hr Factor			0.907	0.916	0.970
7 - 9 Volume	0	0	1407	2613	4020	4 - 6 Volume	0	0	2106	1923	4029
7 - 9 Peak Hour			08:00	07:45	08:00	4 - 6 Peak Hour			16:45	16:00	16:45
7 - 9 Pk Volume	0	0	830	1434	2243	4 - 6 Pk Volume	0	0	1092	982	2040
Pk Hr Factor	0.000	0.000	0.943	0.953	0.952	Pk Hr Factor	0.000	0.000	0.968	0.959	0.986



APPENDIX F: Collision Data

Beverly Bl Doheny Dr to Beverly Pl

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



(clear filter), (1) accidents with insufficient data for display

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

Accident listing

01/01/2014 - 12/31/2015

Beverly Bl Doheny Dr to Beverly Pl

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
BEVERLY BL	02/13/14	15:00	Thu	170	West			0	0	WEST	Car	Straight	HNBD (not)	65
GEORGE BURNS	Daylight	Other	Coll	Improper	passing					WEST	Emergency v	Parked	HNBD (not)	0
Clear	Dry	No unusua	None	No ped	involved					Not stated	Not stated	Not stated	Not stated	0
BEVERLY BL	02/26/14	12:15	Wed	30	East			0	0	WEST	Not stated	Straight	IU (H&R)	0
DOHENY DR	Daylight	Rear end	Unsafe	speed						WEST	Not stated	Stopped	HNBD (not)	41
Clear	Dry	No unusua	None	No ped	involved					Not stated	Not stated	Not stated	Not stated	0
BEVERLY BL	10/06/14	8:20	Mon	0	Not stated			0	1	WEST	Car	Left turn	HNBD (not)	31
DOHENY DR	Not stat	Rear end	Unsafe	speed						WEST	Other bus	Left turn	HNBD (not)	55
Clear	Dry	No unusua	Function	No ped	involved					Not stated	Not stated	Not stated	Not stated	0
BEVERLY BL	11/06/14	21:17	Thu	310	West			0	0	WEST	Other bus	Backing	HNBD (not)	62
ROBERTSON BL	Dark-	st	Rear end	Unsafe	start/back					WEST	Car	Stopped	HNBD (not)	47
Clear	Dry	No unusua	None	No ped	involved					Not stated	Not stated	Not stated	Not stated	0
ROBERTSON BL	12/30/14	20:00	Tue	0	Not stated			0	2	WEST	Car	Left turn	HNBD (not)	60
BEVERLY BL	Dark-	st	Broadside	Improper	turning					SOUTH	Car	Straight	HNBD (not)	17
Clear	Wet	No unusua	Function	No ped	involved					Not stated	Not stated	Not stated	Not stated	0
BEVERLY BL	01/08/15	16:00	Thu	300	West			0	1	WEST	Car	Parked	HNBD (not)	29
ROBERTSON BL	Daylight	Other	Coll	Other	hazardous					WEST	Bicycle	Straight	HNBD (not)	41
Cloudy	Dry	No unusua	None	No ped	involved					Not stated	Not stated	Not stated	Not stated	0
BEVERLY BL	01/12/15	14:55	Mon	0	Not stated			0	0	EAST	Pickup	Straight	HNBD (not)	53
LA PEER DR	Daylight	Rear end	Unsafe	speed						EAST	Car	Straight	HNBD (not)	49
Clear	Dry	No unusua	None	No ped	involved					Not stated	Not stated	Not stated	Not stated	0
DOHENY DR	01/14/15	18:54	Wed	0	Not stated			0	1	WEST	Car	Right turn	HNBD (not)	51
BEVERLY BL	Dark-	st	Broadside	Ped	right-of-way					WEST	Pedestrian	Other VehM	HNBD (not)	59
Clear	Dry	No unusua	Function	In x-walk	at int					Not stated	Not stated	Not stated	Not stated	0
BEVERLY BL	02/24/15	14:00	Tue	84	East			0	1	EAST	Car	Straight	HNBD (not)	41
WETHERLY DR	Daylight	Rear end	Following	too close						EAST	Car	Stopped	HNBD (not)	54
Clear	Dry	Not state	None	No ped	involved					Not stated	Not stated	Not stated	Not stated	0
BEVERLY BL	03/19/15	11:00	Thu	20	West			0	0	EAST	Truck	Changing l	HNBD (not)	49
LA PEER DR	Daylight	Side swipe	Unsafe	lane change						EAST	Pickup	Straight	HNBD (not)	51
Clear	Dry	Obstructi	None	No ped	involved					Not stated	Not stated	Not stated	Not stated	0
BEVERLY BL	04/01/15	10:35	Wed	10	West			0	0	WEST	Car	Left turn	HNBD (not)	25
SAN VICENTE	Daylight	Broadside	Improper	turning						WEST	Car	Right turn	HNBD (not)	89
Cloudy	Dry	No unusua	Function	No ped	involved					Not stated	Not stated	Not stated	Not stated	0
BEVERLY BL	04/14/15	15:53	Tue	0	Not stated			0	1	SOUTH	Car	Right turn	HNBD (not)	82
ROBERTSON BL	Daylight	Broadside	Ped	right-of-way						SOUTH	Pedestrian	Not stated	HNBD (not)	84
Clear	Dry	No unusua	Function	In x-walk	at int					Not stated	Not stated	Not stated	Not stated	0
BEVERLY BL	04/27/15	18:00	Mon	15	East			0	0	EAST	Car	Straight	HBD (UI)	65
WETHERLY DR	Daylight	Head on	Unsafe	lane change						EAST	Car	Parked	N/A	0
Clear	Dry	No unusua	None	No ped	involved					EAST	Car	Parked	N/A	0
BEVERLY BL	04/28/15	7:25	Tue	24	East			0	0	WEST	Car	Straight	HNBD (not)	0
WETHERLY DR	Daylight	Rear end	Unsafe	speed						WEST	Car	Stopped	HNBD (not)	34
Clear	Dry	No unusua	Function	No ped	involved					Not stated	Not stated	Not stated	Not stated	0
BEVERLY BL	05/13/15	14:30	Wed	0	Not stated			0	1	NORTH	Car	Straight	N/A	22
ROBERTSON BL	Daylight	Broadside	Traffic	signals						WEST	Car	Straight	N/A	56
Clear	Dry	Not state	Function	No ped	involved					EAST	Car	Left turn	N/A	47
BEVERLY BL	06/12/15	17:30	Fri	6	West			0	1	WEST	Car	Stopped	HNBD (not)	28
SAN VICENTE	Daylight	Rear end	Unsafe	start/back						WEST	Car	Stopped	HNBD (not)	67
Clear	Dry	No unusua	Function	No ped	involved					Not stated	Not stated	Not stated	Not stated	0
BEVERLY BL	06/16/15	21:20	Tue	0	Not stated			0	1	WEST	Motor cycle	Straight	IU (H&R)	60
ROBERTSON BL	Dark-	st	Other	Coll	Unsafe	speed				Not stated	Not stated	Not stated	Not stated	0
Clear	Dry	No unusua	Function	No ped	involved					Not stated	Not stated	Not stated	Not stated	0
BEVERLY BL	06/18/15	21:15	Thu	0	Not stated			0	1	NORTH	Car	Left turn	HNBD (not)	27
ALMONT DR	Dark-	st	Head on	Ped	right-of-way					SOUTH	Pedestrian	Straight	HNBD (not)	59
Clear	Dry	No unusua	None	In x-walk	no int					Not stated	Not stated	Not stated	Not stated	0
BEVERLY BL	07/06/15	13:09	Mon	0	Not stated			0	0	WEST	Car	Straight	N/A	30
WETHERLY DR	Daylight	Head on	Auto	right-of-way						EAST	Car	Left turn	N/A	0

Clear	Dry	No unusua	Function	No ped	involved		Not stated	Not stated	Not stated	Not stated	0
BEVERLY BL	07/14/15	11:05	Tue 23	West	0	1	WEST	Car	Straight	HNBD (not)	23
GEORGE BURNS	Daylight	Rear end	Following too close				WEST	Car	Stopped	HNBD (not)	52
Cloudy	Dry	No unusua	None	No ped	involved		Not stated	Not stated	Not stated	Not stated	0
BEVERLY BL	09/21/15	11:35	Mon 0	Not stated	0	1	WEST	Car	Straight	HNBD (not)	34
WETHERLY DR	Daylight	Rear end	Following too close				WEST	Car	Stopped	HNBD (not)	58
Clear	Dry	No unusua	Function	No ped	involved		Not stated	Car	Stopped	HNBD (not)	24
BEVERLY BL	09/24/15	9:00	Thu 25	West	0	0	Not stated	Not stated	Straight	IU (H&R)	0
ALMONT DR	Daylight	Side swipe	Improper turning				Not stated	Truck	Parked	N/A	0
Clear	Dry	No unusua	None	No ped	involved		Not stated	Not stated	Not stated	Not stated	0
BEVERLY BL	11/03/15	12:14	Tue 0	Not stated	0	0	EAST	Not stated	Backing	IU (H&R)	0
SHERBOURNE D	Daylight	Other Coll	Unsafe start/back				EAST	Car	Straight	HNBD (not)	67
Cloudy	Dry	No unusua	None	No ped	involved		Not stated	Not stated	Not stated	Not stated	0
BEVERLY BL	11/22/15	0:10	Sun 300	East	0	0	WEST	Car	U turn	HNBD (not)	28
GEORGE BURNS	Dark- st	Rear end	Improper turning				WEST	Car	Straight	HNBD (not)	29
Cloudy	Dry	No unusua	None	No ped	involved		Not stated	Not stated	Not stated	Not stated	0
BEVERLY BL	11/25/15	17:05	Wed 0	Not stated	0	0	EAST	Car	Changing l	HNBD (not)	34
ROBERTSON BL	Dark- st	Broadside	Unsafe lane change				EAST	Not stated	Straight	HNBD (not)	39
Clear	Dry	No unusua	Function	No ped	involved		Not stated	Not stated	Not stated	Not stated	0
BEVERLY BL	12/07/15	11:09	Mon 0	Not stated	0	1	WEST	Car	Left turn	HNBD (not)	36
GEORGE BURNS	Daylight	Broadside	Auto right-of-way				EAST	Car	Straight	HNBD (not)	27
Cloudy	Dry	No unusua	Function	No ped	involved		Not stated	Not stated	Not stated	Not stated	0