

# CITY OF OAKLAND

## ENGINEERING AND TRAFFIC SURVEY

75

**STREET:** Grand Avenue  
**FROM:** Lake Park Avenue

**SURVEY DATE:** 10/4/2013  
**TO:** Wildwood Avenue

### SPEED DATA

<b>Location of Speed Survey</b>	3655 Grand Ave	<b>Posted Speed Limit</b>	25 mph
<b>Time of Speed Survey</b>	10:45 AM - 11:35 AM	<b>Recommended Speed Limit</b>	25 mph
<b>50th Percentile Speed (Mean Speed)</b>	27.8 mph	<b>Speed Limit Change</b>	No
<b>85th Percentile Speed</b>	31.8 mph	<b>Speed Justification</b>	85th Percentile speed, downgraded 5 mph due to high collision rate
<b>10 mph Pace Speed</b>	24 - 33 mph		
<b>Percentage of Vehicles in Pace</b>	80.9%		
<b>Number of Survey Samples</b>	215		

### COLLISION HISTORY

<b>Number of Years Studied</b>	2
<b>Total Collisions</b>	22
<b>Collision Rate (ACC/MVM)</b>	3.46
<b>Expected Collisions (ACC/MVM)</b>	1.99

### TRAFFIC FACTORS

<b>Average Daily Traffic</b>	16,125
<b>Type of Traffic Control</b>	Traffic Signals at Lake Park Ave, Elwood Ave, Mandana, Blvd, and Wildwood Ave; PED XING btw Lake Park Ave and Elwood Ave
<b>Pedestrian Traffic</b>	High
<b>Truck Traffic</b>	Low

### ROADWAY CHARACTERISTICS

<b>Length of Segment</b>	2850'
<b>Width</b>	78'
<b>Number of Lanes</b>	NB - 2      SB - 2
<b>Street Classification</b>	Collector
<b>Divided Median?</b>	No
<b>Designated Bike Route?</b>	No
<b>Bike Lanes?</b>	No
<b>Proposed Bike Route?</b>	No
<b>Proposed Bike Lane?</b>	No
<b>Mid-block Crosswalks?</b>	At Weldon Ave, Sunnyslope Ave; Mid-block btw Mandana Ave and Weldon Ave and btw Weldon Ave and Sunnyslope
<b>On-Street Parking?</b>	Yes
<b>Sidewalks?</b>	Yes - Continuous
<b>Driveways?</b>	Many
<b>Vertical Curve</b>	None
<b>Horizontal Curve</b>	None
<b>Visibility</b>	Good
<b>Pavement Condition</b>	Good
<b>Adjacent Land Use</b>	Commercial and Fronting Residential

### COMMENTS

The 85th Percentile speed of 31.8 mph indicates a 30 mph speed limit. The 10 mph pace ranges from 24 mph to 33 mph and the suggested speed limit falls within this range. The collision rate for this segment is above the expected rate. Based on the collision rate, a downgrading of the speed limit by 5 mph is justified. Therefore, it is recommended that the speed limit remains at 25 mph.

Approved and Authorized for release by City of Oakland Transportation Services Division:

Date

Loc.#

Volumes for: Wednesday, September 18, 2013

City: Oakland

Project #: 13-7447-080

Location: Grand Avenue south of Weldon Avenue.

Start Time	Northbound		Hour Totals		Southbound		Hour Totals		Combined Totals	
	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00	4	111			8	129				
12:15	10	112			5	138				
12:30	5	113			3	120				
12:45	6	143	25	479	6	137	22	524	47	1003
1:00	5	131			2	119				
1:15	6	115			2	129				
1:30	0	122			3	138				
1:45	5	132	16	500	4	118	11	504	27	1004
2:00	0	123			1	135				
2:15	3	138			1	162				
2:30	7	128			4	138				
2:45	2	139	12	528	2	134	8	569	20	1097
3:00	0	126			1	154				
3:15	3	151			3	134				
3:30	2	123			2	197				
3:45	3	137	8	537	0	169	6	654	14	1191
4:00	4	141			1	161				
4:15	4	148			3	178				
4:30	2	154			4	219				
4:45	6	152	16	595	2	190	10	748	26	1343
5:00	6	149			9	217				
5:15	7	161			11	209				
5:30	9	162			20	222				
5:45	15	166	37	638	22	242	62	890	99	1528
6:00	13	176			14	230				
6:15	13	142			30	182				
6:30	33	132			30	179				
6:45	41	147	100	597	45	171	119	762	219	1359
7:00	49	122			51	185				
7:15	64	109			61	161				
7:30	84	101			91	131				
7:45	143	109	340	441	106	100	309	577	649	1018
8:00	144	88			119	104				
8:15	132	65			139	96				
8:30	118	72			148	109				
8:45	141	80	535	305	126	90	532	399	1067	704
9:00	96	67			135	80				
9:15	123	63			137	67				
9:30	93	45			127	62	0			
9:45	117	39	429	214	104	52	503	261	932	475
10:00	110	46			113	53				
10:15	114	41			118	39				
10:30	124	35			138	46				
10:45	115	22	463	144	132	31	501	169	964	313
11:00	99	23			124	30				
11:15	110	20			149	14				
11:30	99	14			119	17				
11:45	129	9	437	66	128	12	520	73	957	139
<b>Total</b>	<b>2418</b>	<b>5044</b>	<b>2418</b>	<b>5044</b>	<b>2603</b>	<b>6130</b>	<b>2603</b>	<b>6130</b>	<b>5021</b>	<b>11174</b>
<b>Combined Total</b>	<b>7462</b>		<b>7462</b>		<b>8733</b>		<b>8733</b>		<b>16195</b>	
AM Peak	7:45 AM				8:15 AM					
Vol.	537				548					
P.H.F.	0.932				0.926					
PM Peak	5:15 PM				5:15 PM					
Vol.	665				903					
P.H.F.	0.986				0.933					
Percentage	32.4%	67.6%			29.8%	70.2%				

Volumes for: Thursday, September 19, 2013

City: Oakland

Project #: 13-7447-080

Location: Grand Avenue south of Weldon Avenue.

Start Time	Northbound		Hour Totals		Southbound		Hour Totals		Combined Totals	
	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00	9	119			11	139				
12:15	7	109			8	127				
12:30	6	111			9	160				
12:45	2	119	24	458	2	124	30	550	54	1008
1:00	1	115			3	136				
1:15	6	118			5	136				
1:30	5	119			3	123				
1:45	2	136	14	488	2	147	13	542	27	1030
2:00	4	126			4	127				
2:15	3	109			1	131				
2:30	1	124			2	156				
2:45	1	132	9	491	3	124	10	538	19	1029
3:00	0	153			4	167				
3:15	3	143			2	152				
3:30	2	132			1	166				
3:45	4	168	9	596	2	238	9	723	18	1319
4:00	4	145			3	187				
4:15	2	153			0	171				
4:30	2	161			1	225				
4:45	6	146	14	605	3	193	7	776	21	1381
5:00	5	173			8	209				
5:15	9	161			14	203				
5:30	7	171			21	229				
5:45	10	148	31	653	26	219	69	860	100	1513
6:00	10	153			16	225				
6:15	24	153			35	176				
6:30	32	128			31	177				
6:45	45	126	111	560	39	163	121	741	232	1301
7:00	67	107			46	150				
7:15	73	128			59	156				
7:30	90	95			69	130				
7:45	102	89	332	419	111	99	285	535	617	954
8:00	129	96			126	115				
8:15	127	85			146	107				
8:30	123	73			154	84				
8:45	125	81	504	335	138	80	564	386	1068	721
9:00	110	69			127	69				
9:15	127	47			129	63				
9:30	89	41			131	56	0			
9:45	101	52	427	209	117	56	504	244	931	453
10:00	97	39			116	35				
10:15	102	28			114	40				
10:30	101	29			140	36				
10:45	94	20	394	116	132	25	502	136	896	252
11:00	112	26			128	16				
11:15	104	17			136	16				
11:30	115	22			135	18				
11:45	115	16	446	81	124	11	523	61	969	142
<b>Total</b>	<b>2315</b>	<b>5011</b>	<b>2315</b>	<b>5011</b>	<b>2637</b>	<b>6092</b>	<b>2637</b>	<b>6092</b>	<b>4952</b>	<b>11103</b>
<b>Combined Total</b>	<b>7326</b>		<b>7326</b>		<b>8729</b>		<b>8729</b>		<b>16055</b>	
AM Peak	8:00 AM				8:15 AM					
Vol.	504				565					
P.H.F.	0.977				0.917					
PM Peak	5:00 PM				5:15 PM					
Vol.	653				876					
P.H.F.	0.977				0.956					
Percentage	31.6%	68.4%			30.2%	69.8%				