

5175 BROADWAY PROJECT

Traffic Analysis Technical Data

Prepared for Initial Study / Environmental Review Checklist and
Negative Declaration

Prepared for
City of Oakland File No. ER07-004

December 2007

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207130



Appendix

Peak Hour Turning Movement Counts

Trip Generation Worksheet

Cumulative Volume Data

Level of Service Calculations

MARKS TRAFFIC DATA

CITY OF OAKLAND

ESA
Mietek 916-806-0250

File Name : broadway-51st-a
Site Code : 3
Start Date : 3/7/2007
Page No : 1

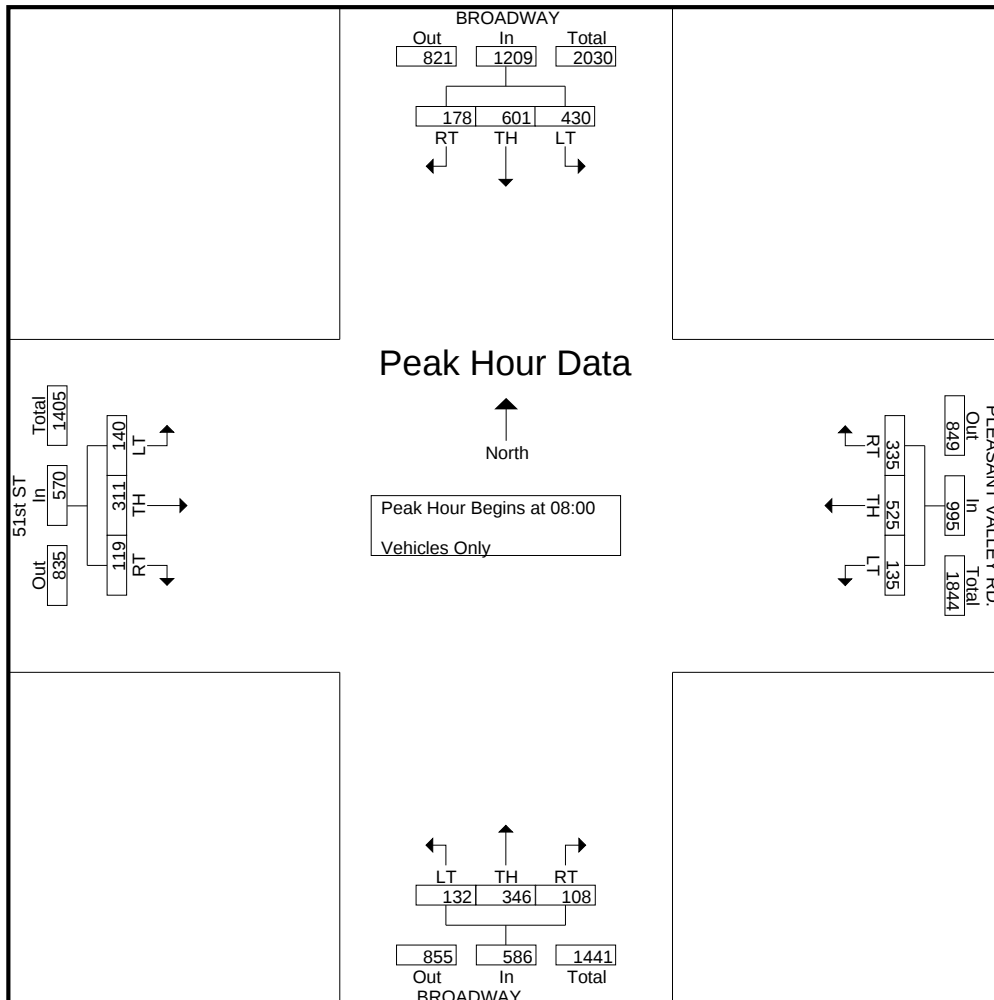
Groups Printed- Vehicles Only

	BROADWAY Southbound				PLEASANT VALLEY RD. Westbound				BROADWAY Northbound				51st ST Eastbound				
Start Time	RT	TH	LT	App. Total	RT	TH	LT	App. Total	RT	TH	LT	App. Total	RT	TH	LT	App. Total	Int. Total
07:00	11	68	49	128	49	46	15	110	10	41	9	60	9	21	17	47	345
07:15	16	82	51	149	47	53	3	103	11	59	16	86	17	33	14	64	402
07:30	23	81	63	167	52	75	21	148	14	57	17	88	17	36	23	76	479
07:45	21	135	81	237	67	102	20	189	13	54	17	84	24	68	27	119	629
Total	71	366	244	681	215	276	59	550	48	211	59	318	67	158	81	306	1855
08:00	31	142	93	266	101	114	26	241	26	84	19	129	34	76	37	147	783
08:15	51	182	107	340	86	123	42	251	30	96	40	166	30	79	35	144	901
08:30	36	143	95	274	80	140	39	259	23	98	43	164	30	76	29	135	832
08:45	60	134	135	329	68	148	28	244	29	68	30	127	25	80	39	144	844
Total	178	601	430	1209	335	525	135	995	108	346	132	586	119	311	140	570	3360
Grand Total	249	967	674	1890	550	801	194	1545	156	557	191	904	186	469	221	876	5215
Apprch %	13.2	51.2	35.7		35.6	51.8	12.6		17.3	61.6	21.1		21.2	53.5	25.2		
Total %	4.8	18.5	12.9	36.2	10.5	15.4	3.7	29.6	3	10.7	3.7	17.3	3.6	9	4.2	16.8	

	BROADWAY Southbound				PLEASANT VALLEY RD. Westbound				BROADWAY Northbound				51st ST Eastbound				
Start Time	RT	TH	LT	App. Total	RT	TH	LT	App. Total	RT	TH	LT	App. Total	RT	TH	LT	App. Total	Int. Total
08:00	31	142	93	266	101	114	26	241	26	84	19	129	34	76	37	147	783
08:15	51	182	107	340	86	123	42	251	30	96	40	166	30	79	35	144	901
08:30	36	143	95	274	80	140	39	259	23	98	43	164	30	76	29	135	832
08:45	60	134	135	329	68	148	28	244	29	68	30	127	25	80	39	144	844
Total Volume	178	601	430	1209	335	525	135	995	108	346	132	586	119	311	140	570	3360
% App. Total	14.7	49.7	35.6		33.7	52.8	13.6		18.4	59	22.5		20.9	54.6	24.6		
PHF	.742	.826	.796	.889	.829	.887	.804	.960	.900	.883	.767	.883	.875	.972	.897	.969	.932

Peak Hour Analysis From 07:00 to 08:45 - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 08:00



MARKS TRAFFIC DATA

CITY OF OAKLAND

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File Name : broadway-51st-p

Site Code : 3

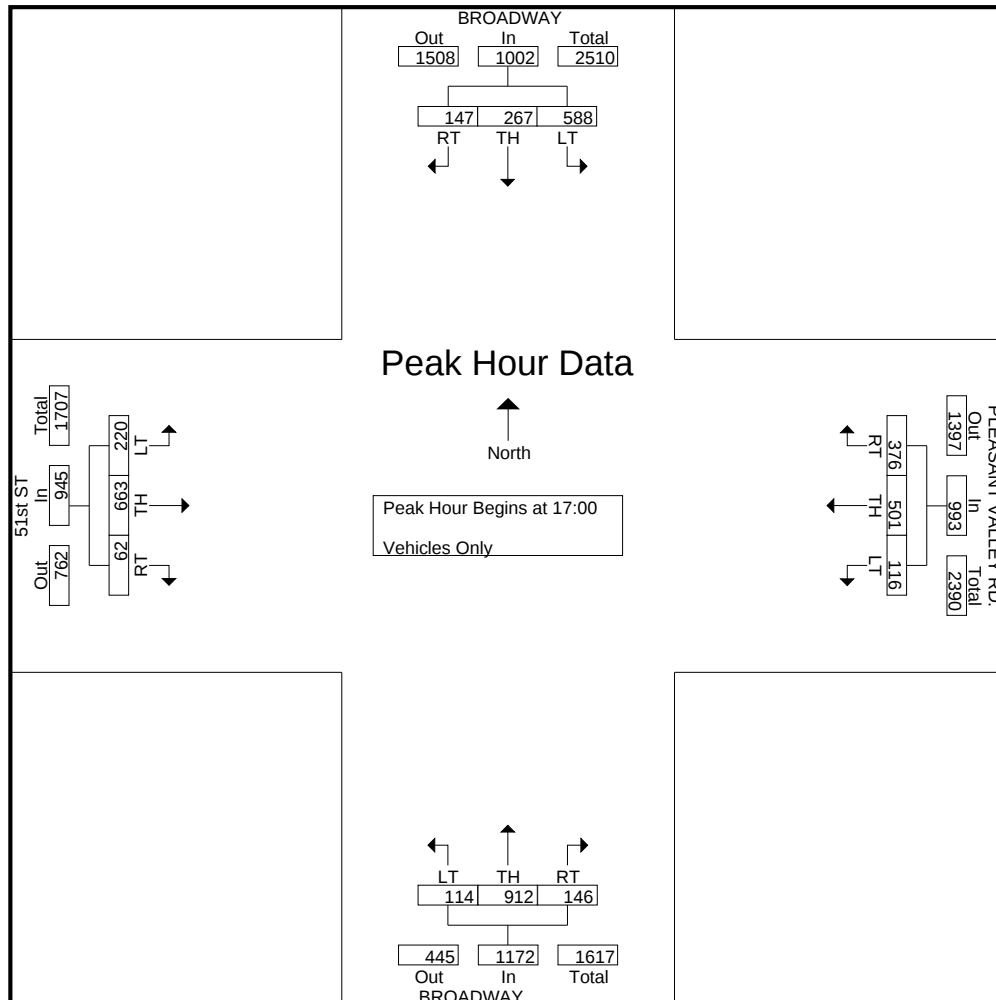
Start Date : 3/7/2007

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	BROADWAY Southbound				PLEASANT VALLEY RD. Westbound				BROADWAY Northbound				51st ST Eastbound				
Start Time	RT	TH	LT	App. Total	RT	TH	LT	App. Total	RT	TH	LT	App. Total	RT	TH	LT	App. Total	Int. Total
16:00	38	60	105	203	83	123	28	234	23	161	42	226	18	114	49	181	844
16:15	34	87	131	252	100	95	33	228	44	141	41	226	15	124	54	193	899
16:30	42	70	144	256	84	96	31	211	33	198	41	272	12	125	51	188	927
16:45	45	54	128	227	85	115	38	238	37	188	35	260	13	128	46	187	912
Total	159	271	508	938	352	429	130	911	137	688	159	984	58	491	200	749	3582
17:00	40	62	126	228	94	120	21	235	34	209	34	277	18	147	41	206	946
17:15	42	68	148	258	101	121	39	261	30	230	27	287	20	177	59	256	1062
17:30	30	63	169	262	85	123	29	237	47	226	27	300	11	154	61	226	1025
17:45	35	74	145	254	96	137	27	260	35	247	26	308	13	185	59	257	1079
Total	147	267	588	1002	376	501	116	993	146	912	114	1172	62	663	220	945	4112
Grand Total	306	538	1096	1940	728	930	246	1904	283	1600	273	2156	120	1154	420	1694	7694
Apprch %	15.8	27.7	56.5		38.2	48.8	12.9		13.1	74.2	12.7		7.1	68.1	24.8		
Total %	4	7	14.2	25.2	9.5	12.1	3.2	24.7	3.7	20.8	3.5	28	1.6	15	5.5	22	

	BROADWAY Southbound				PLEASANT VALLEY RD. Westbound				BROADWAY Northbound				51st ST Eastbound				
Start Time	RT	TH	LT	App. Total	RT	TH	LT	App. Total	RT	TH	LT	App. Total	RT	TH	LT	App. Total	Int. Total
Peak Hour Analysis From 16:00 to 17:45 - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 17:00																	
17:00	40	62	126	228	94	120	21	235	34	209	34	277	18	147	41	206	946
17:15	42	68	148	258	101	121	39	261	30	230	27	287	20	177	59	256	1062
17:30	30	63	169	262	85	123	29	237	47	226	27	300	11	154	61	226	1025
17:45	35	74	145	254	96	137	27	260	35	247	26	308	13	185	59	257	1079
Total Volume	147	267	588	1002	376	501	116	993	146	912	114	1172	62	663	220	945	4112
% App. Total	14.7	26.6	58.7		37.9	50.5	11.7		12.5	77.8	9.7		6.6	70.2	23.3		
PHF	.875	.902	.870	.956	.931	.914	.744	.951	.777	.923	.838	.951	.775	.896	.902	.919	.953



MARKS TRAFFIC DATA

CITY OF OAKLAND

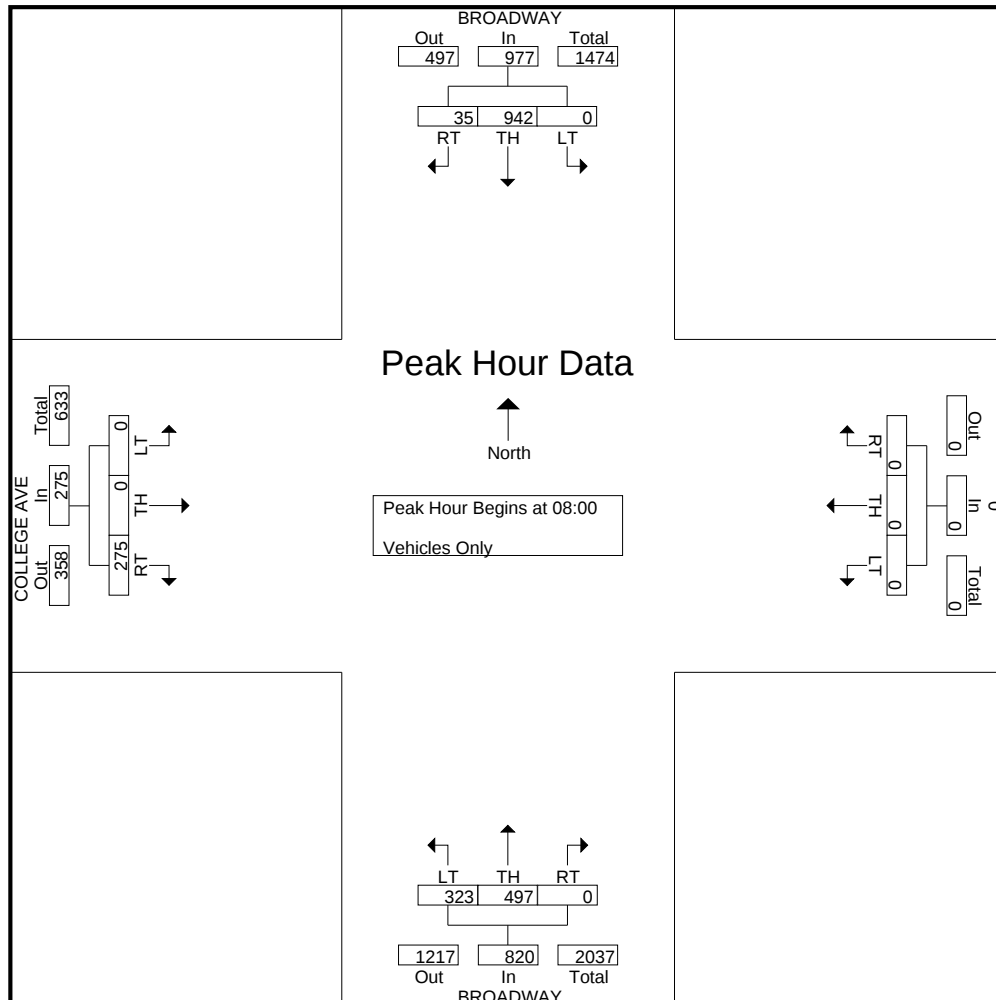
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File Name : broadway-college-a
Site Code : 1
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Groups Printed- Vehicles Only

	BROADWAY Southbound				0 Westbound				BROADWAY Northbound				COLLEGE AVE Eastbound				
Start Time	RT	TH	LT	App. Total	RT	TH	LT	App. Total	RT	TH	LT	App. Total	RT	TH	LT	App. Total	Int. Total
07:00	6	103	0	109	0	0	0	0	0	68	45	113	25	0	0	25	247
07:15	11	130	0	141	0	0	0	0	0	69	48	117	27	0	0	27	285
07:30	11	128	0	139	0	0	0	0	0	85	50	135	40	0	0	40	314
07:45	15	205	0	220	0	0	0	0	0	92	57	149	43	0	0	43	412
Total	43	566	0	609	0	0	0	0	0	314	200	514	135	0	0	135	1258
08:00	5	209	0	214	0	0	0	0	0	132	98	230	61	0	0	61	505
08:15	9	261	0	270	0	0	0	0	0	145	73	218	76	0	0	76	564
08:30	9	227	0	236	0	0	0	0	0	121	87	208	59	0	0	59	503
08:45	12	245	0	257	0	0	0	0	0	99	65	164	79	0	0	79	500
Total	35	942	0	977	0	0	0	0	0	497	323	820	275	0	0	275	2072
Grand Total	78	1508	0	1586	0	0	0	0	0	811	523	1334	410	0	0	410	3330
Apprch %	4.9	95.1	0		0	0	0		0	60.8	39.2		100	0	0		
Total %	2.3	45.3	0	47.6	0	0	0	0	0	24.4	15.7	40.1	12.3	0	0	12.3	

	BROADWAY Southbound				0 Westbound				BROADWAY Northbound				COLLEGE AVE Eastbound				
Start Time	RT	TH	LT	App. Total	RT	TH	LT	App. Total	RT	TH	LT	App. Total	RT	TH	LT	App. Total	Int. Total
Peak Hour Analysis From 07:00 to 08:45 - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00																	
08:00	5	209	0	214	0	0	0	0	0	132	98	230	61	0	0	61	505
08:15	9	261	0	270	0	0	0	0	0	145	73	218	76	0	0	76	564
08:30	9	227	0	236	0	0	0	0	0	121	87	208	59	0	0	59	503
08:45	12	245	0	257	0	0	0	0	0	99	65	164	79	0	0	79	500
Total Volume	35	942	0	977	0	0	0	0	0	497	323	820	275	0	0	275	2072
% App. Total	3.6	96.4	0		0	0	0		0	60.6	39.4		100	0	0		
PHF	.729	.902	.000	.905	.000	.000	.000	.000	.000	.857	.824	.891	.870	.000	.000	.870	.918



MARKS TRAFFIC DATA

CITY OF OAKLAND

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File Name : broadway-college-p
Site Code : 1
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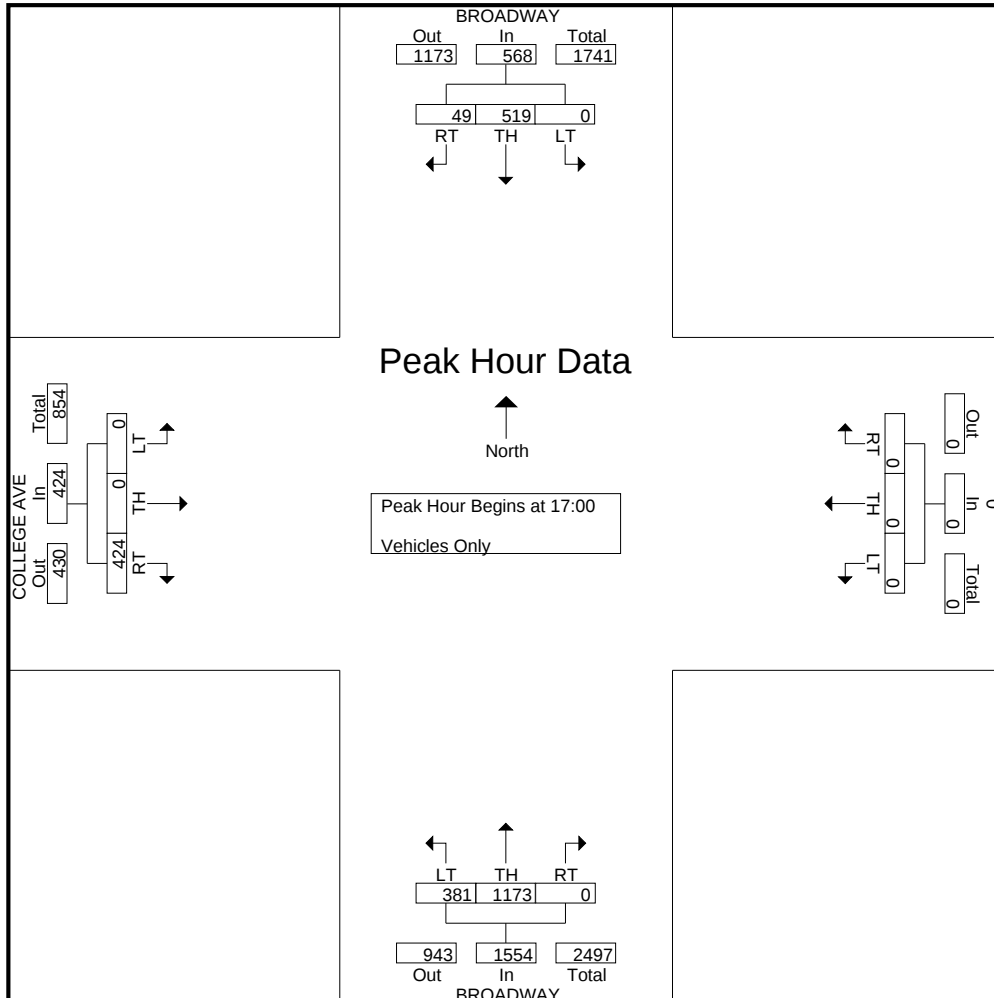
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	BROADWAY Southbound				0 Westbound				BROADWAY Northbound				COLLEGE AVE Eastbound				
Start Time	RT	TH	LT	App. Total	RT	TH	LT	App. Total	RT	TH	LT	App. Total	RT	TH	LT	App. Total	Int. Total
16:00	20	131	0	151	0	0	0	0	0	196	98	294	91	0	0	91	536
16:15	15	142	0	157	0	0	0	0	0	192	98	290	86	0	0	86	533
16:30	13	140	0	153	0	0	0	0	0	237	95	332	105	0	0	105	590
16:45	29	117	0	146	0	0	0	0	0	236	80	316	102	0	0	102	564
Total	77	530	0	607	0	0	0	0	0	861	371	1232	384	0	0	384	2223
17:00	15	130	0	145	0	0	0	0	0	253	95	348	104	0	0	104	597
17:15	9	138	0	147	0	0	0	0	0	298	103	401	110	0	0	110	658
17:30	8	127	0	135	0	0	0	0	0	314	83	397	95	0	0	95	627
17:45	17	124	0	141	0	0	0	0	0	308	100	408	115	0	0	115	664
Total	49	519	0	568	0	0	0	0	0	1173	381	1554	424	0	0	424	2546
Grand Total	126	1049	0	1175	0	0	0	0	0	2034	752	2786	808	0	0	808	4769
Apprch %	10.7	89.3	0		0	0	0	0	0	73	27		100	0	0		
Total %	2.6	22	0	24.6	0	0	0	0	0	42.7	15.8	58.4	16.9	0	0	16.9	

	BROADWAY Southbound				0 Westbound				BROADWAY Northbound				COLLEGE AVE Eastbound				
Start Time	RT	TH	LT	App. Total	RT	TH	LT	App. Total	RT	TH	LT	App. Total	RT	TH	LT	App. Total	Int. Total
17:00	15	130	0	145	0	0	0	0	0	253	95	348	104	0	0	104	597
17:15	9	138	0	147	0	0	0	0	0	298	103	401	110	0	0	110	658
17:30	8	127	0	135	0	0	0	0	0	314	83	397	95	0	0	95	627
17:45	17	124	0	141	0	0	0	0	0	308	100	408	115	0	0	115	664
Total Volume	49	519	0	568	0	0	0	0	0	1173	381	1554	424	0	0	424	2546
% App. Total	8.6	91.4	0		0	0	0	0	0	75.5	24.5		100	0	0		
PHF	.721	.940	.000	.966	.000	.000	.000	.000	.000	.934	.925	.952	.922	.000	.000	.922	.959

Peak Hour Analysis From 16:00 to 17:45 - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 17:00



MARKS TRAFFIC DATA

CITY OF OAKLAND

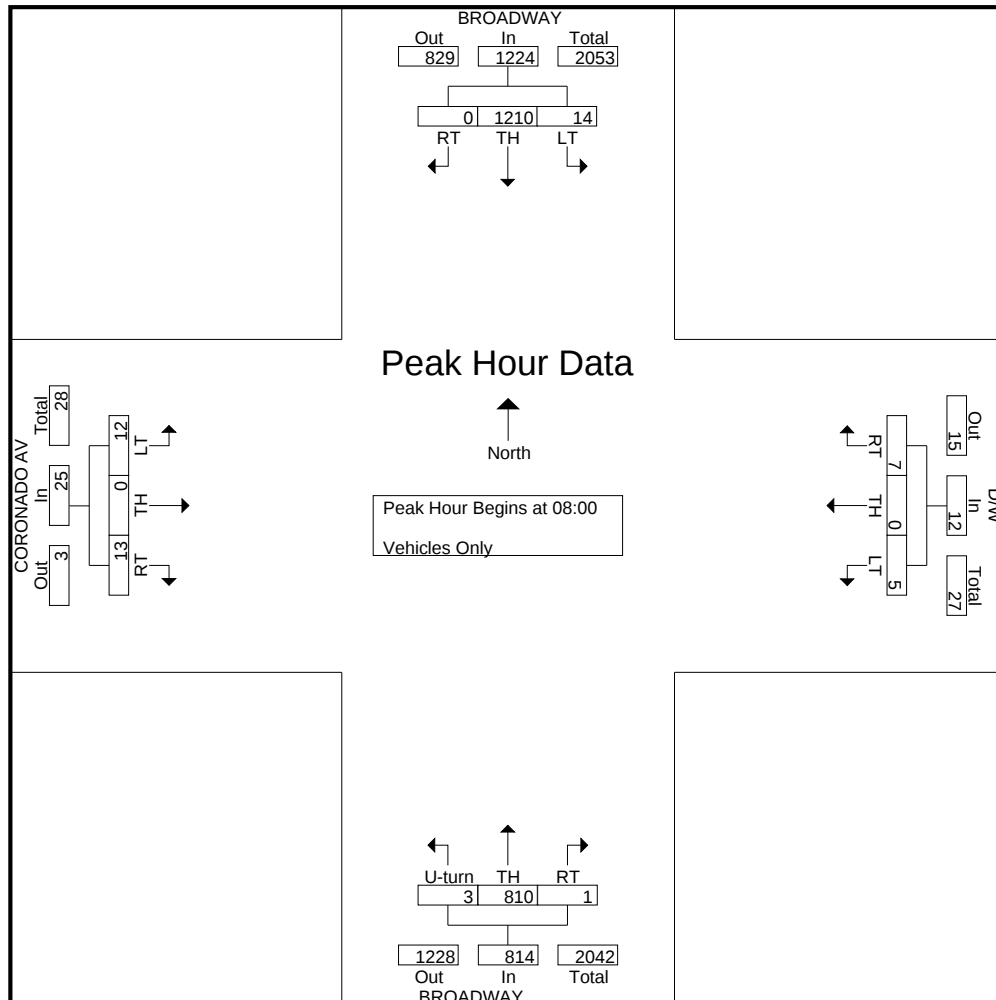
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Mietek 916-806-0250

File Name : broadway-coronado-a
Site Code : 2
Start Date : 3/7/2007
Page No : 1

Groups Printed- Vehicles Only

	BROADWAY Southbound				D/W Westbound				BROADWAY Northbound				CORONADO AV Eastbound				
Start Time	RT	TH	LT	App. Total	RT	TH	LT	App. Total	RT	TH	U-turn	App. Total	RT	TH	LT	App. Total	Int. Total
07:00	0	122	5	127	1	0	1	2	0	112	1	113	1	0	3	4	246
07:15	0	152	4	156	1	0	0	1	0	117	2	119	0	0	0	0	276
07:30	0	164	3	167	0	0	0	0	0	135	1	136	4	1	1	6	309
07:45	0	237	8	245	1	0	1	2	0	145	2	147	3	0	3	6	400
Total	0	675	20	695	3	0	2	5	0	509	6	515	8	1	7	16	1231
08:00	0	264	4	268	2	0	1	3	0	220	1	221	5	0	6	11	503
08:15	0	340	3	343	1	0	1	2	1	216	0	217	4	0	2	6	568
08:30	0	278	5	283	3	0	0	3	0	206	1	207	1	0	1	2	495
08:45	0	328	2	330	1	0	3	4	0	168	1	169	3	0	3	6	509
Total	0	1210	14	1224	7	0	5	12	1	810	3	814	13	0	12	25	2075
Grand Total	0	1885	34	1919	10	0	7	17	1	1319	9	1329	21	1	19	41	3306
Apprch %	0	98.2	1.8		58.8	0	41.2		0.1	99.2	0.7		51.2	2.4	46.3		
Total %	0	57	1	58	0.3	0	0.2	0.5	0	39.9	0.3	40.2	0.6	0	0.6	1.2	

	BROADWAY Southbound				D/W Westbound				BROADWAY Northbound				CORONADO AV Eastbound				
Start Time	RT	TH	LT	App. Total	RT	TH	LT	App. Total	RT	TH	U-turn	App. Total	RT	TH	LT	App. Total	Int. Total
Peak Hour Analysis From 07:00 to 08:45 - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00																	
08:00	0	264	4	268	2	0	1	3	0	220	1	221	5	0	6	11	503
08:15	0	340	3	343	1	0	1	2	1	216	0	217	4	0	2	6	568
08:30	0	278	5	283	3	0	0	3	0	206	1	207	1	0	1	2	495
08:45	0	328	2	330	1	0	3	4	0	168	1	169	3	0	3	6	509
Total Volume	0	1210	14	1224	7	0	5	12	1	810	3	814	13	0	12	25	2075
% App. Total	0	98.9	1.1		58.3	0	41.7		0.1	99.5	0.4		52	0	48		
PHF	.000	.890	.700	.892	.583	.000	.417	.750	.250	.920	.750	.921	.650	.000	.500	.568	.913



MARKS TRAFFIC DATA

CITY OF OAKLAND

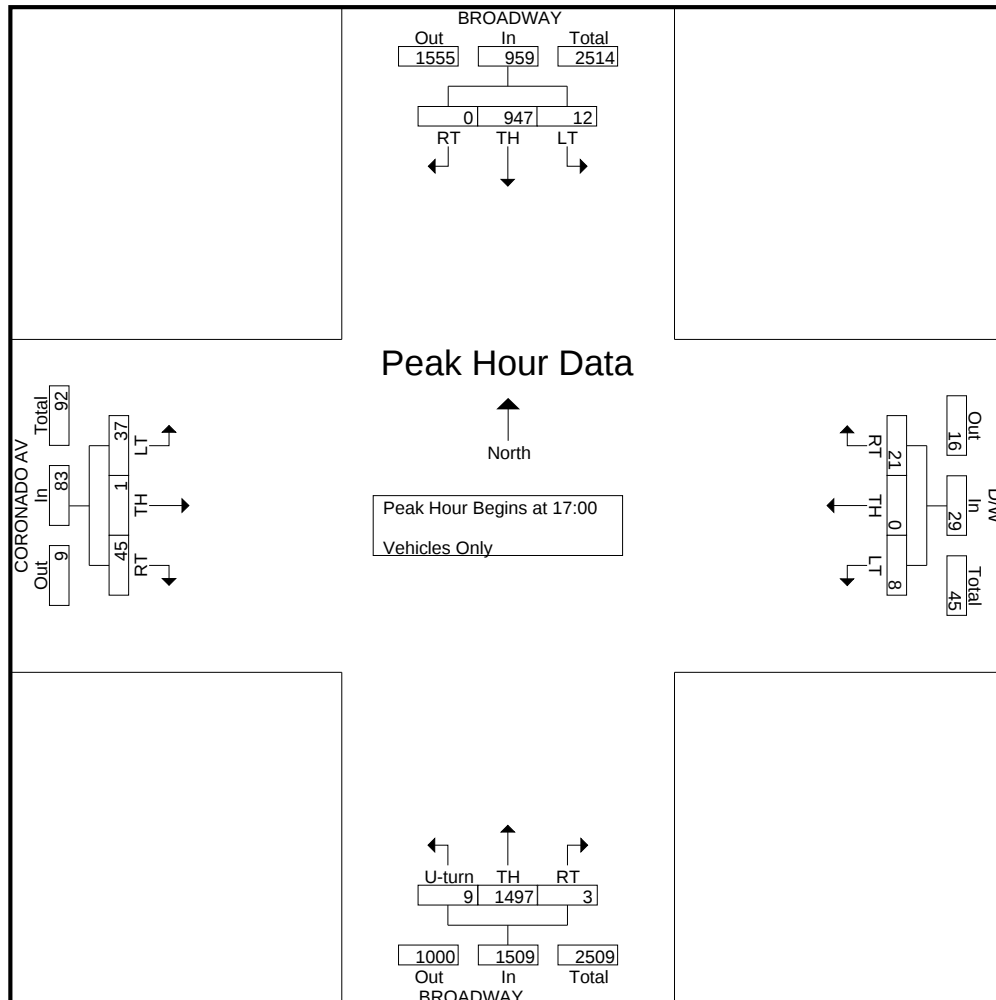
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Start Date : 3/7/2007
Page No : 1

Groups Printed- Vehicles Only

	BROADWAY Southbound				D/W Westbound				BROADWAY Northbound				CORONADO AV Eastbound				
Start Time	RT	TH	LT	App. Total	RT	TH	LT	App. Total	RT	TH	U-turn	App. Total	RT	TH	LT	App. Total	Int. Total
16:00	0	215	4	219	4	0	0	4	1	291	3	295	10	0	4	14	532
16:15	0	228	6	234	5	0	1	6	0	283	4	287	12	0	3	15	542
16:30	0	244	2	246	5	0	3	8	1	322	7	330	22	0	3	25	609
16:45	0	216	3	219	1	0	0	1	0	314	2	316	12	0	4	16	552
Total	0	903	15	918	15	0	4	19	2	1210	16	1228	56	0	14	70	2235
17:00	0	240	2	242	3	0	1	4	0	343	3	346	7	0	3	10	602
17:15	0	243	4	247	4	0	0	4	0	390	3	393	13	0	5	18	662
17:30	0	219	4	223	4	0	4	8	0	374	1	375	15	0	17	32	638
17:45	0	245	2	247	10	0	3	13	3	390	2	395	10	1	12	23	678
Total	0	947	12	959	21	0	8	29	3	1497	9	1509	45	1	37	83	2580
Grand Total	0	1850	27	1877	36	0	12	48	5	2707	25	2737	101	1	51	153	4815
Apprch %	0	98.6	1.4		75	0	25		0.2	98.9	0.9		66	0.7	33.3		
Total %	0	38.4	0.6	39	0.7	0	0.2	1	0.1	56.2	0.5	56.8	2.1	0	1.1	3.2	

	BROADWAY Southbound				D/W Westbound				BROADWAY Northbound				CORONADO AV Eastbound				
Start Time	RT	TH	LT	App. Total	RT	TH	LT	App. Total	RT	TH	U-turn	App. Total	RT	TH	LT	App. Total	Int. Total
Peak Hour Analysis From 16:00 to 17:45 - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 17:00																	
17:00	0	240	2	242	3	0	1	4	0	343	3	346	7	0	3	10	602
17:15	0	243	4	247	4	0	0	4	0	390	3	393	13	0	5	18	662
17:30	0	219	4	223	4	0	4	8	0	374	1	375	15	0	17	32	638
17:45	0	245	2	247	10	0	3	13	3	390	2	395	10	1	12	23	678
Total Volume	0	947	12	959	21	0	8	29	3	1497	9	1509	45	1	37	83	2580
% App. Total	0	98.7	1.3		72.4	0	27.6		0.2	99.2	0.6		54.2	1.2	44.6		
PHF	.000	.966	.750	.971	.525	.000	.500	.558	.250	.960	.750	.955	.750	.250	.544	.648	.951



Trip Generation

5175 Broadway

Proposed Project

Land Use	Unit	AM Weekday			AM Weekday			PM Weekday			PM Weekday			Daily	Daily
		In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total		
Retail	2,995 sqft	3.28	3.56	6.84	10	11	20	2.81	2.21	5.02	8	7	15	44.32	133
Residential	28 unit	0.10	0.41	0.51	3	11	14	0.35	0.17	0.52	10	5	15	5.86	164
					13	22	35				18	11	30		297

NOTES:

ITE Trip Generation, 7th addition used to estimate trip generation for the project.

Rates based on square footage are per 1,000 square feet of development.

Commercial peak hour and daily rates based on Specialty Retail

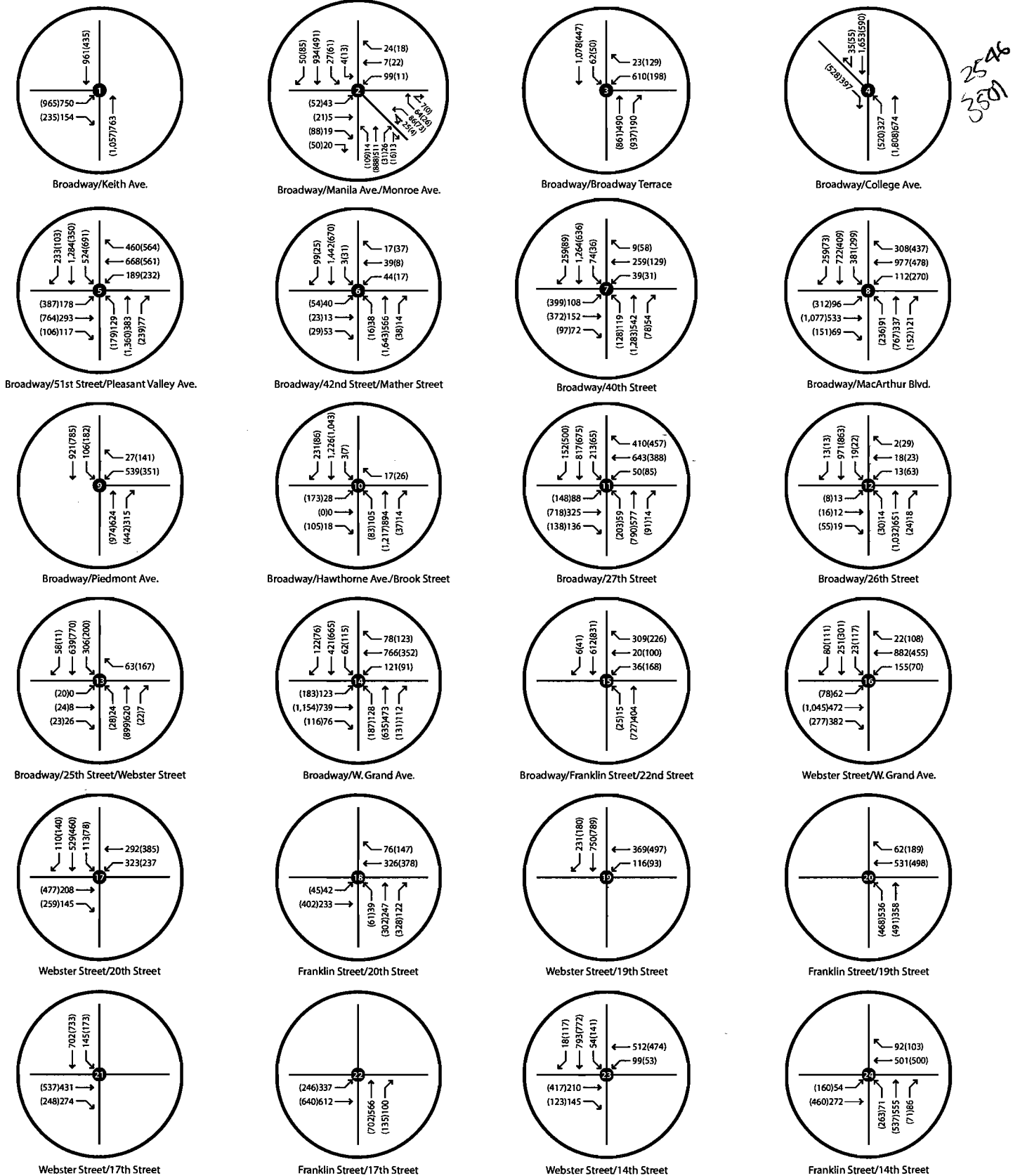


Figure 4-1

AM/PM PEAK HOUR INTERSECTION VOLUMES - YEAR 2025 CONDITIONS

529370/BdwyFeas/Volumes - 12/02/06

HCM Signalized Intersection Capacity Analysis

5: 51st St & Broadway

Year 2025 PM Peak

	↖	→	↗	↖	←	↗	↖	↑	↗	↘	↓	↖
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↖↗		↖	↖↗			↖↗↘		↖	↖↗	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0			4.0		4.0	4.0	
Lane Util. Factor	1.00	0.95		1.00	0.95			0.91		0.86	0.86	
Fr _t	1.00	0.98		1.00	0.92			0.98		1.00	0.98	
Flt Protected	0.95	1.00		0.95	1.00			0.99		0.95	0.98	
Satd. Flow (prot)	1770	3475		1770	3273			4958		1522	4613	
Flt Permitted	0.95	1.00		0.95	1.00			0.99		0.95	0.98	
Satd. Flow (perm)	1770	3475		1770	3273			4958		1522	4613	
Volume (vph)	387	764	106	232	561	564	179	1360	239	691	350	103
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	421	830	115	252	610	613	195	1478	260	751	380	112
RTOR Reduction (vph)	0	9	0	0	151	0	0	18	0	0	15	0
Lane Group Flow (vph)	421	936	0	252	1072	0	0	1915	0	376	852	0
Turn Type	Prot			Prot			Split			Split		
Protected Phases	5	2		1	6		8	8		4	4	
Permitted Phases												
Actuated Green, G (s)	14.0	36.5		9.0	31.5			32.0		26.5	26.5	
Effective Green, g (s)	13.0	37.0		8.0	32.0			32.0		27.0	27.0	
Actuated g/C Ratio	0.11	0.31		0.07	0.27			0.27		0.22	0.22	
Clearance Time (s)	3.0	4.5		3.0	4.5			4.0		4.5	4.5	
Vehicle Extension (s)	3.0	3.0		3.0	3.0			3.0		3.0	3.0	
Lane Grp Cap (vph)	192	1071		118	873			1322		342	1038	
v/s Ratio Prot	c0.24	0.27		c0.14	c0.33			c0.39		c0.25	0.18	
v/s Ratio Perm												
v/c Ratio	2.19	0.87		2.14	1.23			1.45		1.10	0.95dl	
Uniform Delay, d1	53.5	39.3		56.0	44.0			44.0		46.5	44.2	
Progression Factor	1.00	1.00		1.00	1.00			1.00		0.78	0.78	
Incremental Delay, d2	553.4	8.1		538.3	112.7			206.3		75.3	6.5	
Delay (s)	606.9	47.4		594.3	156.7			250.3		111.6	40.9	
Level of Service	F	D		F	F			F		F	D	
Approach Delay (s)		219.8			231.4			250.3			62.3	
Approach LOS		F			F			F			E	

Intersection Summary			
HCM Average Control Delay	199.9	HCM Level of Service	F
HCM Volume to Capacity ratio	1.44		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	16.0
Intersection Capacity Utilization	122.8%	ICU Level of Service	H
Analysis Period (min)	15		
dl = Defacto Left Lane. Recode with 1 though lane as a left lane.			
c = Critical Lane Group			

HCM Signalized Intersection Capacity Analysis 4: College Ave & Broadway

Year 2025 PM Peak

	↙	↓	↗	↘	↖	↗
Movement	SBL	SBR	NBL	NEB	SWT	SWR
Lane Configurations		↗	↖	↗	↗	↗
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.0	4.0	4.0	4.0	
Lane Util. Factor		1.00	1.00	0.95	0.91	
Fr't		0.86	1.00	1.00	0.99	
Flt Protected		1.00	0.95	1.00	1.00	
Satd. Flow (prot)		1611	1770	3539	5020	
Flt Permitted		1.00	0.95	1.00	1.00	
Satd. Flow (perm)		1611	1770	3539	5020	
Volume (vph)	0	528	520	1808	590	55
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	574	565	1965	641	60
RTOR Reduction (vph)	0	178	0	0	9	0
Lane Group Flow (vph)	0	396	565	1965	692	0
Turn Type		custom	Prot			
Protected Phases			3	2	6	
Permitted Phases		3				
Actuated Green, G (s)		40.7	40.7	71.8	71.8	
Effective Green, g (s)		39.7	39.7	72.3	72.3	
Actuated g/C Ratio		0.33	0.33	0.60	0.60	
Clearance Time (s)		3.0	3.0	4.5	4.5	
Vehicle Extension (s)		3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)		533	586	2132	3025	
v/s Ratio Prot			c0.32	c0.56	0.14	
v/s Ratio Perm		0.25				
v/c Ratio		0.74	0.96	0.92	0.23	
Uniform Delay, d1		35.6	39.5	21.3	11.0	
Progression Factor		1.00	0.88	1.27	1.00	
Incremental Delay, d2		5.6	5.3	0.9	0.2	
Delay (s)		41.2	39.8	27.9	11.2	
Level of Service		D	D	C	B	
Approach Delay (s)	41.2			30.6	11.2	
Approach LOS	D			C	B	
Intersection Summary						
HCM Average Control Delay		28.6		HCM Level of Service		C
HCM Volume to Capacity ratio		0.94				
Actuated Cycle Length (s)		120.0		Sum of lost time (s)		8.0
Intersection Capacity Utilization		53.3%		ICU Level of Service		A
Analysis Period (min)		15				
c Critical Lane Group						

HCM Signalized Intersection Capacity Analysis

4: College Ave & Broadway

Year 2025 AM Peak

Movement	SBL	SBR	NEL	NET	SWT	SWR
Lane Configurations		↗	↖	↗↗	↗↗↗	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.0	4.0	4.0	4.0	
Lane Util. Factor		1.00	1.00	0.95	0.91	
Fr _t		0.86	1.00	1.00	1.00	
Flt Protected		1.00	0.95	1.00	1.00	
Satd. Flow (prot)		1611	1770	3539	5069	
Flt Permitted		1.00	0.95	1.00	1.00	
Satd. Flow (perm)		1611	1770	3539	5069	
Volume (vph)	0	397	327	674	1653	35
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	432	355	733	1797	38
RTOR Reduction (vph)	0	5	0	0	1	0
Lane Group Flow (vph)	0	427	355	733	1834	0
Turn Type	custom		Prot			
Protected Phases			3	2	6	
Permitted Phases	3					
Actuated Green, G (s)		37.3	37.3	75.2	75.2	
Effective Green, g (s)		36.3	36.3	75.7	75.7	
Actuated g/C Ratio		0.30	0.30	0.63	0.63	
Clearance Time (s)		3.0	3.0	4.5	4.5	
Vehicle Extension (s)		3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)		487	535	2233	3198	
v/s Ratio Prot			0.20	0.21	0.36	
v/s Ratio Perm		c0.27				
v/c Ratio		0.88	0.66	0.33	0.57	
Uniform Delay, d1		39.7	36.5	10.3	12.8	
Progression Factor		1.00	1.09	0.66	1.00	
Incremental Delay, d2		16.2	0.3	0.0	0.8	
Delay (s)		55.9	40.2	6.8	13.6	
Level of Service		E	D	A	B	
Approach Delay (s)	55.9			17.7	13.6	
Approach LOS	E			B	B	
Intersection Summary						
HCM Average Control Delay	20.4			HCM Level of Service		C
HCM Volume to Capacity ratio	0.67					
Actuated Cycle Length (s)	120.0			Sum of lost time (s)		8.0
Intersection Capacity Utilization	64.0%			ICU Level of Service		B
Analysis Period (min)	15					
c Critical Lane Group						

HCM Signalized Intersection Capacity Analysis

5: 51st St & Broadway

Year 2025 AM Peak

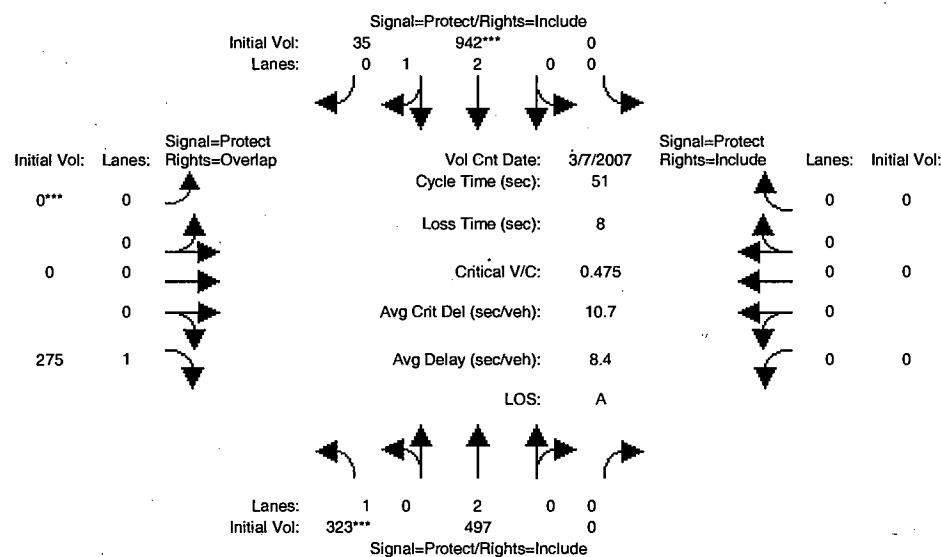
												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SPR
Lane Configurations												
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0			4.0		4.0	4.0	
Lane Util. Factor	1.00	0.95		1.00	0.95			0.91		0.86	0.86	
Frt	1.00	0.96		1.00	0.94			0.98		1.00	0.98	
Flt Protected	0.95	1.00		0.95	1.00			0.99		0.95	1.00	
Satd. Flow (prot)	1770	3388		1770	3323			4931		1522	4693	
Flt Permitted	0.95	1.00		0.95	1.00			0.99		0.95	1.00	
Satd. Flow (perm)	1770	3388		1770	3323			4931		1522	4693	
Volume (vph)	178	293	117	189	668	460	129	383	77	524	1284	233
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	193	318	127	205	726	500	140	416	84	570	1396	253
RTOR Reduction (vph)	0	36	0	0	103	0	0	17	0	0	19	0
Lane Group Flow (vph)	193	409	0	205	1123	0	0	623	0	538	1662	0
Turn Type	Prot			Prot			Split			Split		
Protected Phases	5	2		1	6		8	8		4	4	
Permitted Phases												
Actuated Green, G (s)	10.0	28.5		15.0	33.5			25.0		35.5	35.5	
Effective Green, g (s)	9.0	29.0		14.0	34.0			25.0		36.0	36.0	
Actuated g/C Ratio	0.08	0.24		0.12	0.28			0.21		0.30	0.30	
Clearance Time (s)	3.0	4.5		3.0	4.5			4.0		4.5	4.5	
Vehicle Extension (s)	3.0	3.0		3.0	3.0			3.0		3.0	3.0	
Lane Grp Cap (vph)	133	819		207	942			1027		457	1408	
v/s Ratio Prot	c0.11	0.12		0.12	c0.34			c0.13		0.35	c0.35	
v/s Ratio Perm												
v/c Ratio	1.45	0.50		0.99	1.19			0.61		1.18	1.18	
Uniform Delay, d1	55.5	39.2		52.9	43.0			43.0		42.0	42.0	
Progression Factor	1.00	1.00		1.00	1.00			1.00		0.87	0.87	
Incremental Delay, d2	239.9	0.5		59.6	96.9			2.7		96.5	87.2	
Delay (s)	295.4	39.7		112.5	139.9			45.7		132.9	123.8	
Level of Service	F	D		F	F			D		F	F	
Approach Delay (s)		117.1			136.0			45.7			126.0	
Approach LOS		F			F			D			F	
Intersection Summary												
HCM Average Control Delay	117.3			HCM Level of Service			F					
HCM Volume to Capacity ratio	1.07											
Actuated Cycle Length (s)	120.0			Sum of lost time (s)			16.0					
Intersection Capacity Utilization	98.6%			ICU Level of Service			F					
Analysis Period (min)	15											
c Critical Lane Group												

5175 Broadway

Oakland, California

Level Of Service Computation Report
 2000 HCM Operations (Future Volume Alternative)
 Base AM Conditions

Intersection #2: Broadway @ College Ave



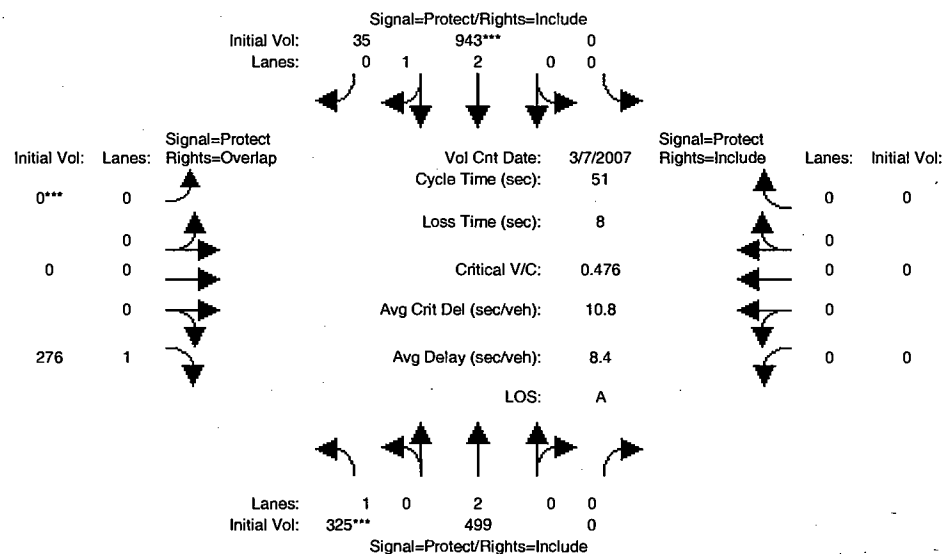
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	0	0	10	10	0	0	10	0	0	0
Volume Module: >> Count Date: 7 Mar 2007 <<												
Base Vol:	323	497	0	0	942	35	0	0	275	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	323	497	0	0	942	35	0	0	275	0	0	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	323	497	0	0	942	35	0	0	275	0	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
PHF Volume:	351	540	0	0	1024	38	0	0	299	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	351	540	0	0	1024	38	0	0	299	0	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	351	540	0	0	1024	38	0	0	299	0	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.95	1.00	1.00	0.91	0.91	1.00	1.00	0.87	1.00	1.00	1.00
Lanes:	1.00	2.00	0.00	0.00	2.89	0.11	0.00	0.00	1.00	0.00	0.00	0.00
Final Sat.:	1805	3610	0	0	4976	185	0	0	1644	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.19	0.15	0.00	0.00	0.21	0.21	0.00	0.00	0.18	0.00	0.00	0.00
Crit Moves:	****			****			****					
Green/Cycle:	0.41	0.84	0.00	0.00	0.43	0.43	0.00	0.00	0.41	0.00	0.00	0.00
Volume/Cap:	0.47	0.18	0.00	0.00	0.47	0.47	0.00	0.00	0.44	0.00	0.00	0.00
Delay/Veh:	11.5	0.8	0.0	0.0	10.5	10.5	0.0	0.0	11.3	0.0	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	11.5	0.8	0.0	0.0	10.5	10.5	0.0	0.0	11.3	0.0	0.0	0.0
LOS by Move:	B	A	A	A	B	B	A	A	B	A	A	A
HCM2kAvgQ:	5	1	0	0	5	5	0	0	4	0	0	0

5175 Broadway

Oakland, California

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Project AM Conditions

Intersection #2: Broadway @ College Ave



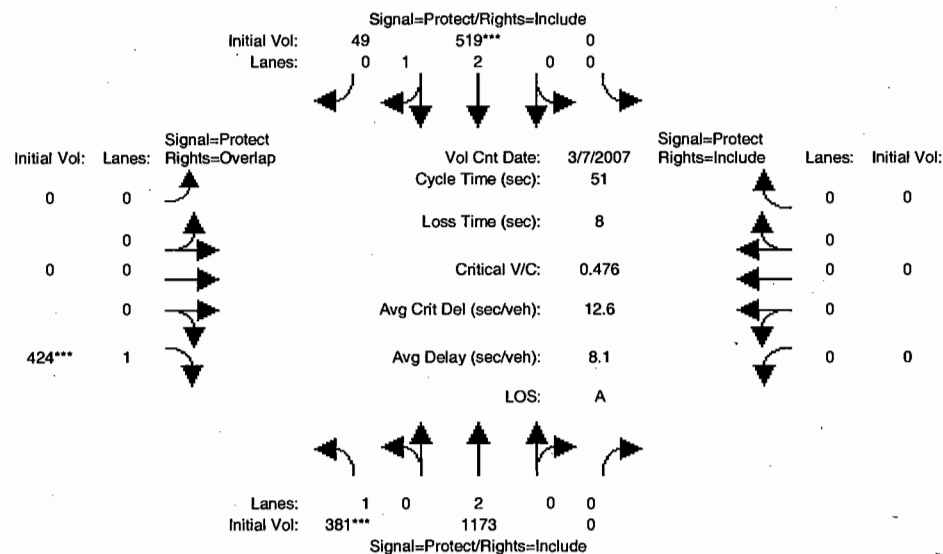
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	0	0	10	10	0	0	10	0	0	0
Volume Module: >> Count Date: 7 Mar 2007 <<												
Base Vol:	323	497	0	0	942	35	0	0	275	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	323	497	0	0	942	35	0	0	275	0	0	0
Added Vol:	2	2	0	0	1	0	0	0	1	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	325	499	0	0	943	35	0	0	276	0	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
PHF Volume:	353	542	0	0	1025	38	0	0	300	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	353	542	0	0	1025	38	0	0	300	0	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	353	542	0	0	1025	38	0	0	300	0	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.95	1.00	1.00	0.91	0.91	1.00	1.00	0.87	1.00	1.00	1.00
Lanes:	1.00	2.00	0.00	0.00	2.89	0.11	0.00	0.00	1.00	0.00	0.00	0.00
Final Sat.:	1805	3610	0	0	4976	185	0	0	1644	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.20	0.15	0.00	0.00	0.21	0.21	0.00	0.00	0.18	0.00	0.00	0.00
Crit Moves:	****			****			****					
Green/Cycle:	0.41	0.84	0.00	0.00	0.43	0.43	0.00	0.00	0.41	0.00	0.00	0.00
Volume/Cap:	0.48	0.18	0.00	0.00	0.48	0.48	0.00	0.00	0.44	0.00	0.00	0.00
Delay/Veh:	11.5	0.8	0.0	0.0	10.5	10.5	0.0	0.0	11.3	0.0	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	11.5	0.8	0.0	0.0	10.5	10.5	0.0	0.0	11.3	0.0	0.0	0.0
LOS by Move:	B	A	A	A	B	B	A	A	B	A	A	A
HCM2kAvgQ:	5	1	0	0	5	5	0	0	4	0	0	0

5175 Broadway

Oakland, California

Level Of Service Computation Report
 2000 HCM Operations (Future Volume Alternative)
 Base PM Conditions

Intersection #2: Broadway @ College Ave



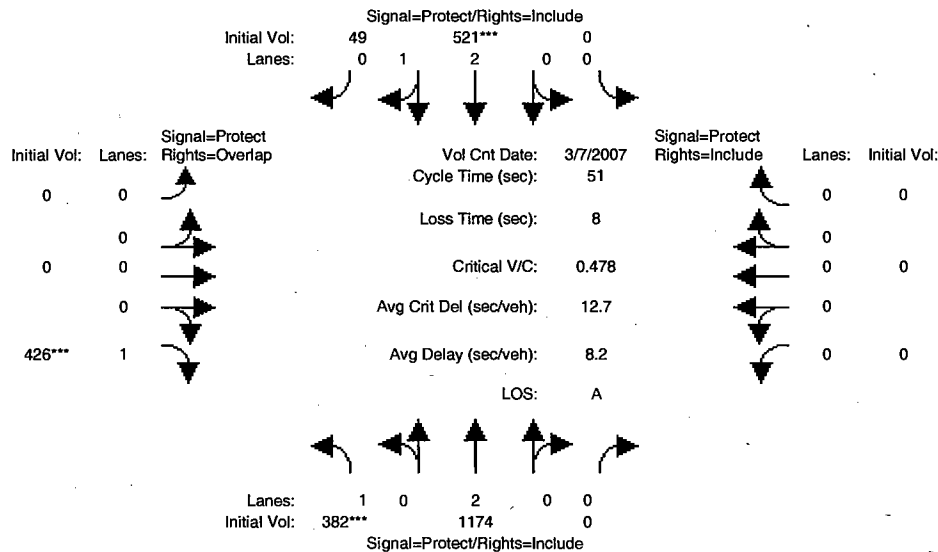
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	0	0	10	10	0	0	10	0	0	0
Volume Module: >> Count Date: 7 Mar 2007 <<												
Base Vol:	381	1173	0	0	519	49	0	0	424	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	381	1173	0	0	519	49	0	0	424	0	0	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	381	1173	0	0	519	49	0	0	424	0	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
PHF Volume:	414	1275	0	0	564	53	0	0	461	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	414	1275	0	0	564	53	0	0	461	0	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	414	1275	0	0	564	53	0	0	461	0	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.95	1.00	1.00	0.90	0.90	1.00	1.00	0.87	1.00	1.00	1.00
Lanes:	1.00	2.00	0.00	0.00	2.74	0.26	0.00	0.00	1.00	0.00	0.00	0.00
Final Sat.:	1805	3610	0	0	4678	442	0	0	1644	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.23	0.35	0.00	0.00	0.12	0.12	0.00	0.00	0.28	0.00	0.00	0.00
Crit Moves:	****				****				****			
Green/Cycle:	0.48	0.74	0.00	0.00	0.25	0.25	0.00	0.00	0.48	0.00	0.00	0.00
Volume/Cap:	0.48	0.48	0.00	0.00	0.48	0.48	0.00	0.00	0.58	0.00	0.00	0.00
Delay/Veh:	9.3	2.9	0.0	0.0	16.4	16.4	0.0	0.0	10.6	0.0	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	9.3	2.9	0.0	0.0	16.4	16.4	0.0	0.0	10.6	0.0	0.0	0.0
LOS by Move:	A	A	A	A	B	B	A	A	B	A	A	A
HCM2kAvgQ:	5	5	0	0	4	4	0	0	6	0	0	0

5175 Broadway

Oakland, California

Level Of Service Computation Report
 2000 HCM Operations (Future Volume Alternative)
 Project PM Conditions

Intersection #2: Broadway @ College Ave



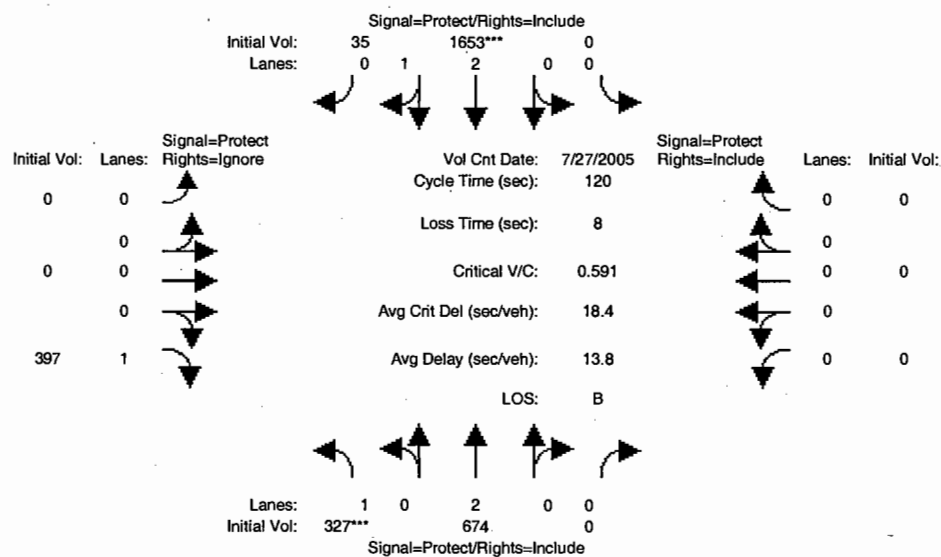
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	0	0	10	10	0	0	10	0	0	0
Volume Module: >> Count Date: 7 Mar 2007 <<												
Base Vol:	381	1173	0	0	519	49	0	0	424	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	381	1173	0	0	519	49	0	0	424	0	0	0
Added Vol:	1	1	0	0	2	0	0	0	2	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	382	1174	0	0	521	49	0	0	426	0	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
PHF Volume:	415	1276	0	0	566	53	0	0	463	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	415	1276	0	0	566	53	0	0	463	0	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	415	1276	0	0	566	53	0	0	463	0	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.95	1.00	1.00	0.90	0.90	1.00	1.00	0.87	1.00	1.00	1.00
Lanes:	1.00	2.00	0.00	0.00	2.74	0.26	0.00	0.00	1.00	0.00	0.00	0.00
Final Sat.:	1805	3610	0	0	4679	440	0	0	1644	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.23	0.35	0.00	0.00	0.12	0.12	0.00	0.00	0.28	0.00	0.00	0.00
Crit Moves:	****				****				****			
Green/Cycle:	0.48	0.73	0.00	0.00	0.25	0.25	0.00	0.00	0.48	0.00	0.00	0.00
Volume/Cap:	0.48	0.48	0.00	0.00	0.48	0.48	0.00	0.00	0.59	0.00	0.00	0.00
Delay/Veh:	9.3	2.9	0.0	0.0	16.5	16.5	0.0	0.0	10.7	0.0	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	9.3	2.9	0.0	0.0	16.5	16.5	0.0	0.0	10.7	0.0	0.0	0.0
LOS by Move:	A	A	A	A	B	B	A	A	B	A	A	A
HCM2kAvgQ:	5	5	0	0	4	4	0	0	6	0	0	0

5175 Broadway

Oakland, California

Level Of Service Computation Report
 2000 HCM Operations (Future Volume Alternative)
 Cumulative AM Conditions No Project

Intersection #2: Broadway @ College Ave



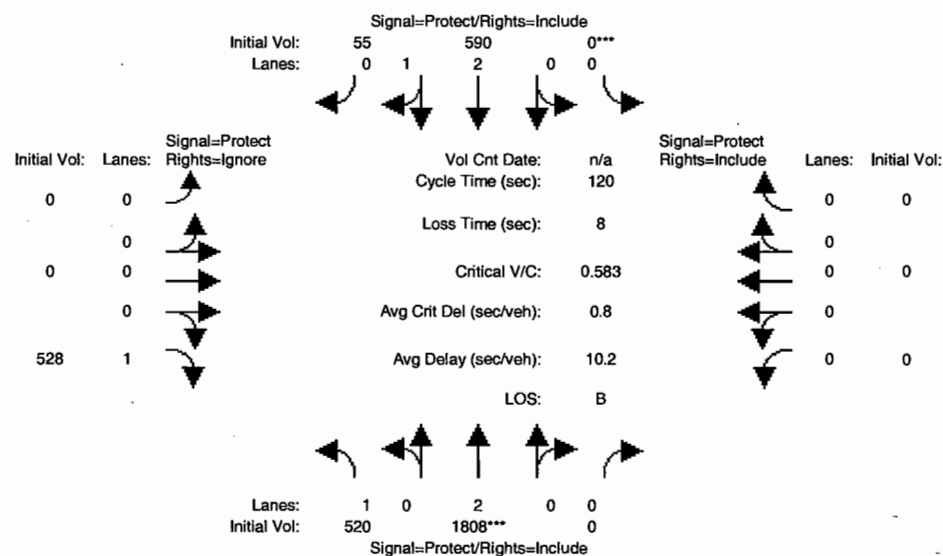
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	0	0	10	10	0	0	10	0	0	0
Volume Module: >> Count Date: 27 Jul 2005 <<												
Base Vol:	327	674	0	0	1653	35	0	0	397	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	327	674	0	0	1653	35	0	0	397	0	0	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	327	674	0	0	1653	35	0	0	397	0	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.00	0.92	0.92	0.92
PHF Volume:	355	733	0	0	1797	38	0	0	0	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	355	733	0	0	1797	38	0	0	0	0	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Final Volume:	355	733	0	0	1797	38	0	0	0	0	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.95	1.00	1.00	0.91	0.91	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.00	0.00	0.00	2.94	0.06	0.00	0.00	1.00	0.00	0.00	0.00
Final Sat.:	1805	3610	0	0	5064	107	0	0	1900	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.20	0.20	0.00	0.00	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00
Crit Moves:	***	***		***	***							
Green/Cycle:	0.33	0.93	0.00	0.00	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00
Volume/Cap:	0.59	0.22	0.00	0.00	0.59	0.59	0.00	0.00	0.00	0.00	0.00	0.00
Delay/Veh:	34.8	0.4	0.0	0.0	15.2	15.2	0.0	0.0	0.0	0.0	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	34.8	0.4	0.0	0.0	15.2	15.2	0.0	0.0	0.0	0.0	0.0	0.0
LOS by Move:	C	A	A	A	B	B	A	A	A	A	A	A
HCM2kAvgQ:	11	1	0	0	15	15	0	0	0	0	0	0

5175 Broadway

Oakland, California

Level Of Service Computation Report
 2000 HCM Operations (Future Volume Alternative)
 Cumulative PM Conditions No Project

Intersection #2: Broadway @ College Ave



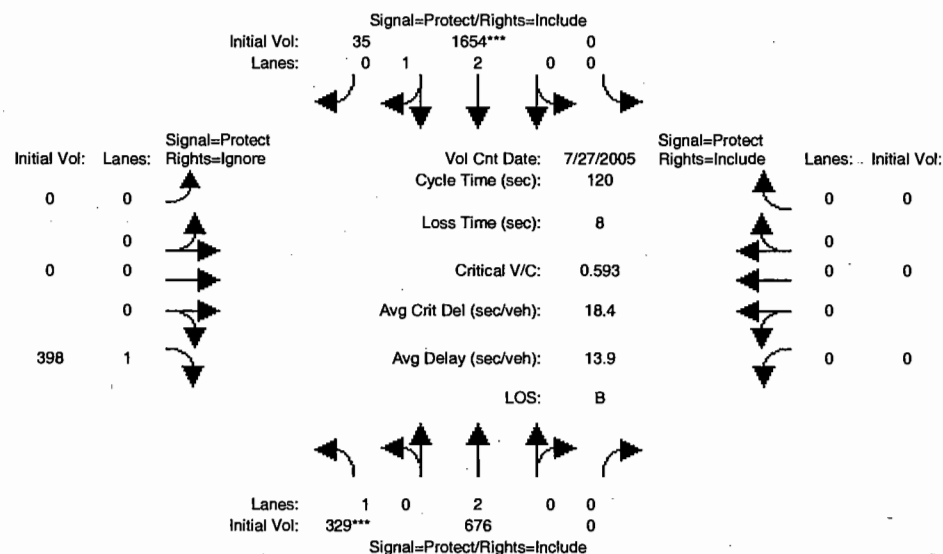
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	0	0	10	10	0	0	10	0	0	0
Volume Module:												
Base Vol:	520	1808	0	0	590	55	0	0	528	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	520	1808	0	0	590	55	0	0	528	0	0	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	520	1808	0	0	590	55	0	0	528	0	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.00	0.92	0.92	0.92
PHF Volume:	565	1965	0	0	641	60	0	0	0	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	565	1965	0	0	641	60	0	0	0	0	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	565	1965	0	0	641	60	0	0	0	0	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.95	1.00	1.00	0.90	0.90	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.00	0.00	0.00	2.74	0.26	0.00	0.00	1.00	0.00	0.00	0.00
Final Sat.:	1805	3610	0	0	4683	437	0	0	1900	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.31	0.54	0.00	0.00	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green/Cycle:	0.65	0.93	0.00	0.00	0.28	0.28	0.00	0.00	0.00	0.00	0.00	0.00
Volume/Cap:	0.48	0.58	0.00	0.00	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00
Delay/Veh:	11.1	0.8	0.0	0.0	35.9	35.9	0.0	0.0	0.0	0.0	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	11.1	0.8	0.0	0.0	35.9	35.9	0.0	0.0	0.0	0.0	0.0	0.0
LOS by Move:	B	A	A	A	D	D	A	A	A	A	A	A
HCM2kAvgQ:	11	6	0	0	8	8	0	0	0	0	0	0

5175 Broadway

Oakland, California

Level Of Service Computation Report
 2000 HCM Operations (Future Volume Alternative)
 Cumulative AM Conditions

Intersection #2: Broadway @ College Ave



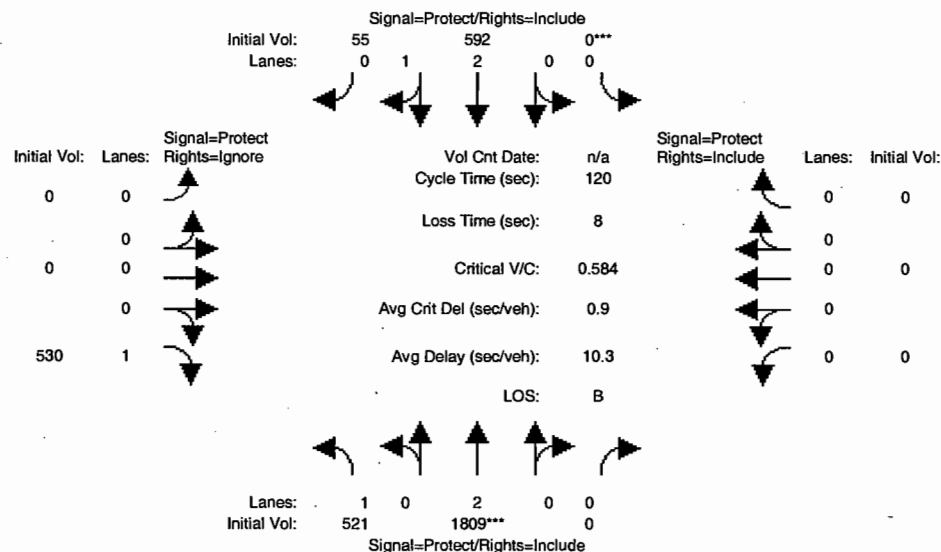
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	0	0	10	10	0	0	10	0	0	0
Volume Module: >> Count Date: 27 Jul 2005 <<												
Base Vol:	327	674	0	0	1653	35	0	0	397	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	327	674	0	0	1653	35	0	0	397	0	0	0
Added Vol:	2	2	0	0	1	0	0	0	1	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	329	676	0	0	1654	35	0	0	398	0	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.00	0.92	0.92	0.92
PHF Volume:	358	735	0	0	1798	38	0	0	0	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	358	735	0	0	1798	38	0	0	0	0	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	358	735	0	0	1798	38	0	0	0	0	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.95	1.00	1.00	0.91	0.91	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.00	0.00	0.00	2.94	0.06	0.00	0.00	1.00	0.00	0.00	0.00
Final Sat.:	1805	3610	0	0	5064	107	0	0	1900	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.20	0.20	0.00	0.00	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00
Crit Moves:	****				****							
Green/Cycle:	0.33	0.93	0.00	0.00	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00
Volume/Cap:	0.59	0.22	0.00	0.00	0.59	0.59	0.00	0.00	0.00	0.00	0.00	0.00
Delay/Veh:	34.7	0.4	0.0	0.0	15.3	15.3	0.0	0.0	0.0	0.0	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	34.7	0.4	0.0	0.0	15.3	15.3	0.0	0.0	0.0	0.0	0.0	0.0
LOS by Move:	C	A	A	A	B	B	A	A	A	A	A	A
HCM2kAvgQ:	11	1	0	0	15	15	0	0	0	0	0	0

5175 Broadway

Oakland, California

Level Of Service Computation Report
 2000 HCM Operations (Future Volume Alternative)
 Cumulative PM Conditions

Intersection #2: Broadway @ College Ave



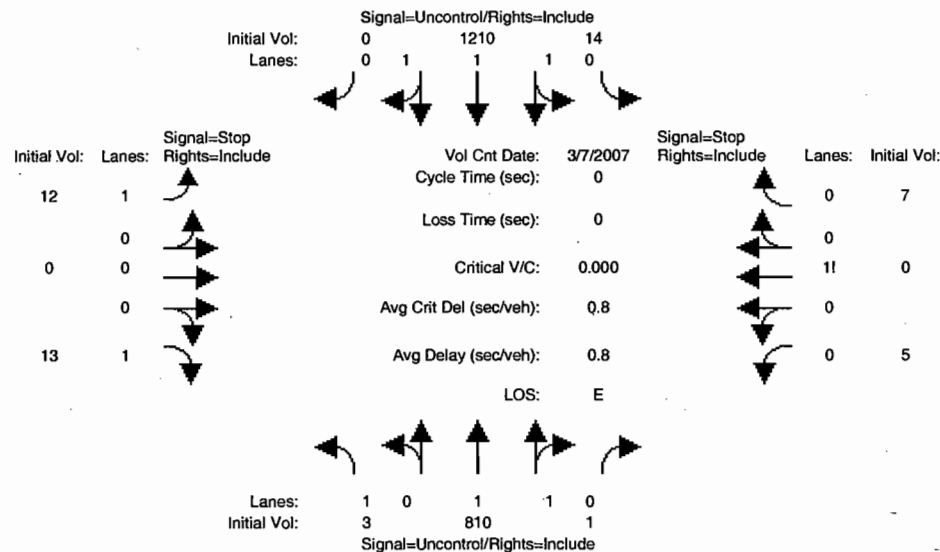
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	0	0	10	10	0	0	10	0	0	0
Volume Module:												
Base Vol:	520	1808	0	0	590	55	0	0	528	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	520	1808	0	0	590	55	0	0	528	0	0	0
Added Vol:	1	1	0	0	2	0	0	0	2	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	521	1809	0	0	592	55	0	0	530	0	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.00	0.92	0.92	0.92
PHF Volume:	566	1966	0	0	643	60	0	0	0	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	566	1966	0	0	643	60	0	0	0	0	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	566	1966	0	0	643	60	0	0	0	0	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.95	1.00	1.00	0.90	0.90	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.00	0.00	0.00	2.74	0.26	0.00	0.00	1.00	0.00	0.00	0.00
Final Sat.:	1805	3610	0	0	4684	435	0	0	1900	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.31	0.54	0.00	0.00	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00
Crit Moves:	****	****		****								
Green/Cycle:	0.65	0.93	0.00	0.00	0.28	0.28	0.00	0.00	0.00	0.00	0.00	0.00
Volume/Cap:	0.48	0.58	0.00	0.00	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00
Delay/Veh:	11.1	0.9	0.0	0.0	35.9	35.9	0.0	0.0	0.0	0.0	0.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	11.1	0.9	0.0	0.0	35.9	35.9	0.0	0.0	0.0	0.0	0.0	0.0
LOS by Move:	B	A	A	A	D	D	A	A	A	A	A	A
HCM2kAvgQ:	11	6	0	0	8	8	0	0	0	0	0	0

5175 Broadway

Oakland, California

Level Of Service Computation Report
 2000 HCM Unsignalized (Future Volume Alternative)
 Base AM Conditions

Intersection #3: Broadway at Coronado Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module: >> Count Date: 7 Mar 2007 <<												
Base Vol:	3	810	1	14	1210	0	12	0	13	5	0	7
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	3	810	1	14	1210	0	12	0	13	5	0	7
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	3	810	1	14	1210	0	12	0	13	5	0	7
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
PHF Volume:	3	853	1	15	1274	0	13	0	14	5	0	7
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Final Volume:	3	853	1	15	1274	0	13	0	14	5	0	7
Critical Gap Module:												
Critical Gp:	4.1	xxxx	xxxxxx	4.1	xxxx	xxxxxx	7.5	xxxx	6.9	7.5	6.5	6.9
FollowUpTim:	2.2	xxxx	xxxxxx	2.2	xxxx	xxxxxx	3.5	xxxx	3.3	3.5	4.0	3.3
Capacity Module:												
Cnflct Vol:	1274	xxxx	xxxxxx	854	xxxx	xxxxxx	1736	xxxx	425	1314	2163	427
Potent Cap.:	552	xxxx	xxxxxx	794	xxxx	xxxxxx	57	xxxx	584	118	48	582
Move Cap.:	552	xxxx	xxxxxx	794	xxxx	xxxxxx	55	xxxx	584	113	47	582
Volume/Cap:	0.01	xxxx	xxxx	0.02	xxxx	xxxx	0.23	xxxx	0.02	0.05	0.00	0.01
Level Of Service Module:												
2Way95thQ:	0.0	xxxx	xxxxxx	0.1	xxxx	xxxxxx	0.8	xxxx	0.1	xxxx	xxxx	xxxxxx
Control Del:	11.6	xxxx	xxxxxx	9.6	xxxx	xxxxxx	88.1	xxxx	11.3	xxxxxx	xxxx	xxxxxx
LOS by Move:	B	*	*	A	*	*	F	*	B	*	*	*
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT
Shared Cap.:	xxxx	xxxx	xxxxxx	xxxx	xxxx	xxxxxx	xxxx	xxxx	xxxxxx	xxxx	213	xxxxxx
SharedQueue:	xxxxxx	xxxx	xxxxxx	0.1	xxxx	xxxxxx	xxxxxx	xxxx	xxxxxx	xxxxxx	0.2	xxxxxx
Shrd ConDel:	xxxxxx	xxxx	xxxxxx	9.6	xxxx	xxxxxx	xxxxxx	xxxx	xxxxxx	xxxxxx	22.9	xxxxxx
Shared LOS:	*	*	*	A	*	*	*	*	*	*	C	*
ApproachDel:	xxxxxx			xxxxxx			48.2			22.9		
ApproachLOS:	*			*			E			C		

Peak Hour Delay Signal Warrant Report

Intersection #3 Broadway at Coronado Ave

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Uncontrolled	Uncontrolled	Stop Sign	Stop Sign
Lanes:	1 0 1 1 0	0 1 1 1 0	1 0 0 0 1	0 0 1! 0 0
Initial Vol:	3 810 1	14 1210 0	12 0 13	5 0 7
ApproachDel:	xxxxxx	xxxxxx	48.2	22.9

Approach[eastbound][lanes=2][control=Stop Sign]

Signal Warrant Rule #1: [vehicle-hours=0.3]

FAIL - Vehicle-hours less than 5 for two or more lane approach.

Signal Warrant Rule #2: [approach volume=25]

FAIL - Approach volume less than 150 for two or more lane approach.

Signal Warrant Rule #3: [approach count=4][total volume=2075]

SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[westbound][lanes=1][control=Stop Sign]

Signal Warrant Rule #1: [vehicle-hours=0.1]

FAIL - Vehicle-hours less than 4 for one lane approach.

Signal Warrant Rule #2: [approach volume=12]

FAIL - Approach volume less than 100 for one lane approach.

Signal Warrant Rule #3: [approach count=4][total volume=2075]

SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER

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Peak Hour Volume Signal Warrant Report [Urban]

Intersection #3 Broadway at Coronado Ave

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Uncontrolled	Uncontrolled	Stop Sign	Stop Sign
Lanes:	1 0 1 1 0	0 1 1 1 0	1 0 0 0 1	0 0 1! 0 0
Initial Vol:	3 810 1	14 1210 0	12 0 13	5 0 7

Major Street Volume: 2038

Minor Approach Volume: 25

Minor Approach Volume Threshold: 68 [less than minimum of 150]

SIGNAL WARRANT DISCLAIMER

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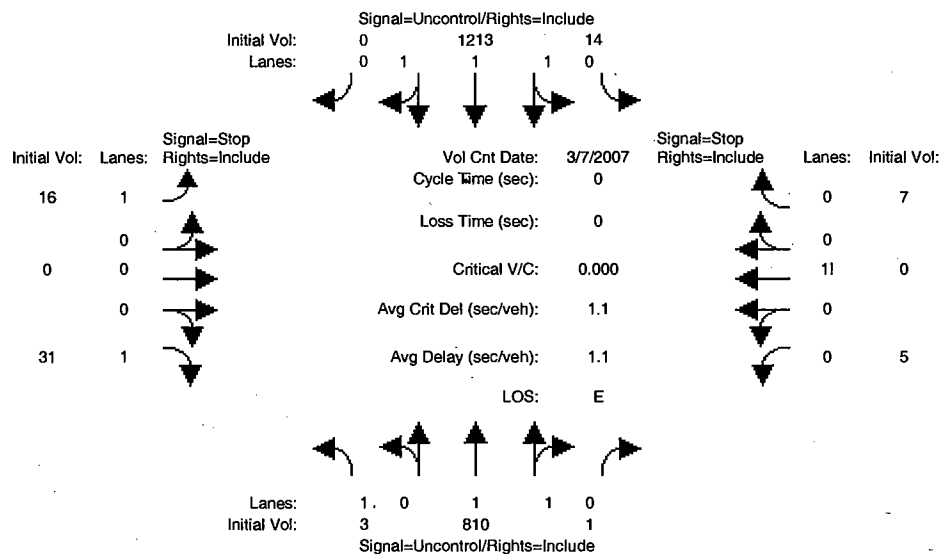
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5175 Broadway

Oakland, California

Level Of Service Computation Report
 2000 HCM Unsignalized (Future Volume Alternative)
 Project AM Conditions

Intersection #3: Broadway at Coronado Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module: >> Count Date: 7 Mar 2007 <<												
Base Vol:	3	810	1	14	1210	0	12	0	13	5	0	7
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	3	810	1	14	1210	0	12	0	13	5	0	7
Added Vol:	0	0	0	0	3	0	4	0	18	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	3	810	1	14	1213	0	16	0	31	5	0	7
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
PHF Volume:	3	853	1	15	1277	0	17	0	33	5	0	7
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	3	853	1	15	1277	0	17	0	33	5	0	7
Critical Gap Module:												
Critical Gp:	4.1	xxxx	xxxxx	4.1	xxxx	xxxxx	7.5	xxxx	6.9	7.5	6.5	6.9
FollowUpTim:	2.2	xxxx	xxxxx	2.2	xxxx	xxxxx	3.5	xxxx	3.3	3.5	4.0	3.3
Capacity Module:												
Cnflct Vol:	1277	xxxx	xxxxx	854	xxxx	xxxxx	1739	xxxx	426	1315	2166	427
Potent Cap.:	551	xxxx	xxxxx	794	xxxx	xxxxx	57	xxxx	583	118	48	582
Move Cap.:	551	xxxx	xxxxx	794	xxxx	xxxxx	55	xxxx	583	109	47	582
Volume/Cap:	0.01	xxxx	xxxx	0.02	xxxx	xxxx	0.31	xxxx	0.06	0.05	0.00	0.01
Level Of Service Module:												
2Way95thQ:	0.0	xxxx	xxxxx	0.1	xxxx	xxxxx	1.1	xxxx	0.2	xxxx	xxxx	xxxxx
Control Del:	11.6	xxxx	xxxxx	9.6	xxxx	xxxxx	96.7	xxxx	11.5	xxxxx	xxxx	xxxxx
LOS by Move:	B	*	*	A	*	*	F	*	B	*	*	*
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	207	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	0.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	0.2	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	9.6	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	23.5	xxxxx
Shared LOS:	*	*	*	A	*	*	*	*	*	*	C	*
ApproachDel:	xxxxxx			xxxxxx			40.5			23.5		
ApproachLOS:	*			*			E			C		

Peak Hour Delay Signal Warrant Report

Intersection #3 Broadway at Coronado Ave

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Uncontrolled	Uncontrolled	Stop Sign	Stop Sign
Lanes:	1 0 1 1 0	0 1 1 1 0	1 0 0 0 1	0 0 1! 0 0
Initial Vol:	3 810 1	14 1213 0	16 0 31	5 0 7
ApproachDel:	xxxxxx	xxxxxx	40.5	23.5

Approach[eastbound][lanes=2][control=Stop Sign]

Signal Warrant Rule #1: [vehicle-hours=0.5]

FAIL - Vehicle-hours less than 5 for two or more lane approach.

Signal Warrant Rule #2: [approach volume=47]

FAIL - Approach volume less than 150 for two or more lane approach.

Signal Warrant Rule #3: [approach count=4][total volume=2100]

SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[westbound][lanes=1][control=Stop Sign]

Signal Warrant Rule #1: [vehicle-hours=0.1]

FAIL - Vehicle-hours less than 4 for one lane approach.

Signal Warrant Rule #2: [approach volume=12]

FAIL - Approach volume less than 100 for one lane approach.

Signal Warrant Rule #3: [approach count=4][total volume=2100]

SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER

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Peak Hour Volume Signal Warrant Report [Urban]

Intersection #3 Broadway at Coronado Ave

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Uncontrolled	Uncontrolled	Stop Sign	Stop Sign
Lanes:	1 0 1 1 0	0 1 1 1 0	1 0 0 0 1	0 0 1! 0 0
Initial Vol:	3 810 1	14 1213 0	16 0 31	5 0 7

Major Street Volume: 2041

Minor Approach Volume: 47

Minor Approach Volume Threshold: 67 [less than minimum of 150]

SIGNAL WARRANT DISCLAIMER

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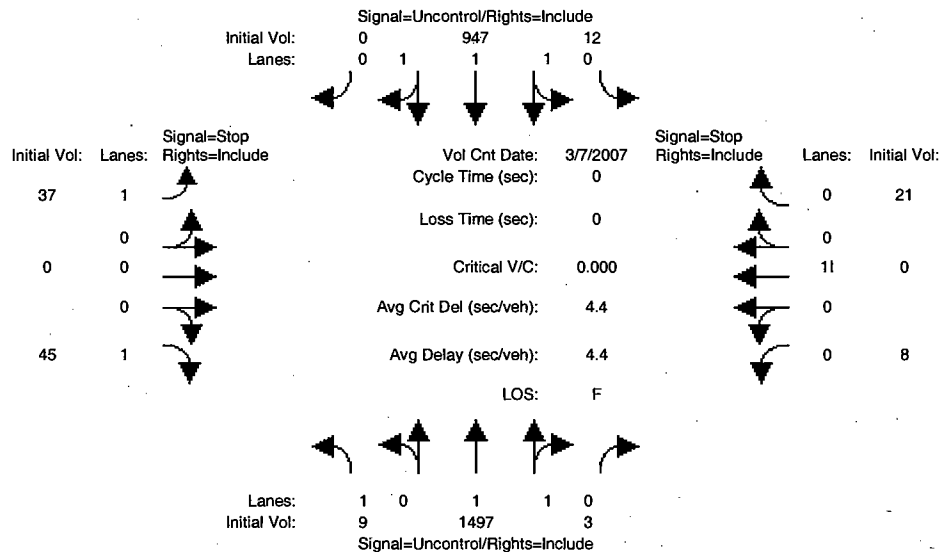
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5175 Broadway

Oakland, California

Level Of Service Computation Report
 2000 HCM Unsignalized (Future Volume Alternative)
 Base PM Conditions

Intersection #3: Broadway at Coronado Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module: >> Count Date: 7 Mar 2007 <<												
Base Vol:	9	1497	3	12	947	0	37	0	45	8	0	21
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	9	1497	3	12	947	0	37	0	45	8	0	21
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	9	1497	3	12	947	0	37	0	45	8	0	21
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
PHF Volume:	9	1576	3	13	997	0	39	0	47	8	0	22
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Final Volume:	9	1576	3	13	997	0	39	0	47	8	0	22
Critical Gap Module:												
Critical Gp:	4.1	xxxx	xxxxx	4.1	xxxx	xxxxx	7.5	xxxx	6.9	7.5	6.5	6.9
FollowUpTim:	2.2	xxxx	xxxxx	2.2	xxxx	xxxxx	3.5	xxxx	3.3	3.5	4.0	3.3
Capacity Module:												
Cnflict Vol:	997	xxxx	xxxxx	1579	xxxx	xxxxx	1829	xxxx	332	1954	2618	789
Potent Cap.:	702	xxxx	xxxxx	422	xxxx	xxxxx	49	xxxx	669	39	25	338
Move Cap.:	702	xxxx	xxxxx	422	xxxx	xxxxx	44	xxxx	669	35	23	338
Volume/Cap:	0.01	xxxx	xxxxx	0.03	xxxx	xxxxx	0.88	xxxx	0.07	0.24	0.00	0.07
Level Of Service Module:												
2Way95thQ:	0.0	xxxx	xxxxx	0.1	xxxx	xxxxx	3.5	xxxx	0.2	xxxx	xxxx	xxxxx
Control Del:	10.2	xxxx	xxxxx	13.8	xxxx	xxxxx	243.0	xxxx	10.8	xxxxx	xxxx	xxxxx
LOS by Move:	B	*	*	B	*	*	F	*	B	*	*	*
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	100	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	0.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	1.2	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	13.8	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	55.9	xxxxx
Shared LOS:	*	*	*	B	*	*	*	*	*	*	F	*
ApproachDel:	xxxxxx			xxxxxx			115.6			55.9		
ApproachLOS:	*			*			F			F		

Peak Hour Delay Signal Warrant Report

 Intersection #3 Broadway at Coronado Ave

 Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Uncontrolled	Uncontrolled	Stop Sign	Stop Sign
Lanes:	1 0 1 1 0	0 1 1 1 0	1 0 0 0 1	0 0 1! 0 0
Initial Vol:	9 1497 3	12 947 0	37 0 45	8 0 21
ApproachDel:	xxxxxx	xxxxxx	115.6	55.9

Approach[eastbound][lanes=2][control=Stop Sign]

Signal Warrant Rule #1: [vehicle-hours=2.6]

FAIL - Vehicle-hours less than 5 for two or more lane approach.

Signal Warrant Rule #2: [approach volume=82]

FAIL - Approach volume less than 150 for two or more lane approach.

Signal Warrant Rule #3: [approach count=4][total volume=2579]

SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[westbound][lanes=1][control=Stop Sign]

Signal Warrant Rule #1: [vehicle-hours=0.5]

FAIL - Vehicle-hours less than 4 for one lane approach.

Signal Warrant Rule #2: [approach volume=29]

FAIL - Approach volume less than 100 for one lane approach.

Signal Warrant Rule #3: [approach count=4][total volume=2579]

SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER

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Peak Hour Volume Signal Warrant Report [Urban]

Intersection #3 Broadway at Coronado Ave

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Uncontrolled	Uncontrolled	Stop Sign	Stop Sign
Lanes:	1 0 1 1 0	0 1 1 1 0	1 0 0 0 1	0 0 1! 0 0
Initial Vol:	9 1497 3	12 947 0	37 0 45	8 0 21

Major Street Volume: 2468

Minor Approach Volume: 82

Minor Approach Volume Threshold: -14 [less than minimum of 150]

SIGNAL WARRANT DISCLAIMER

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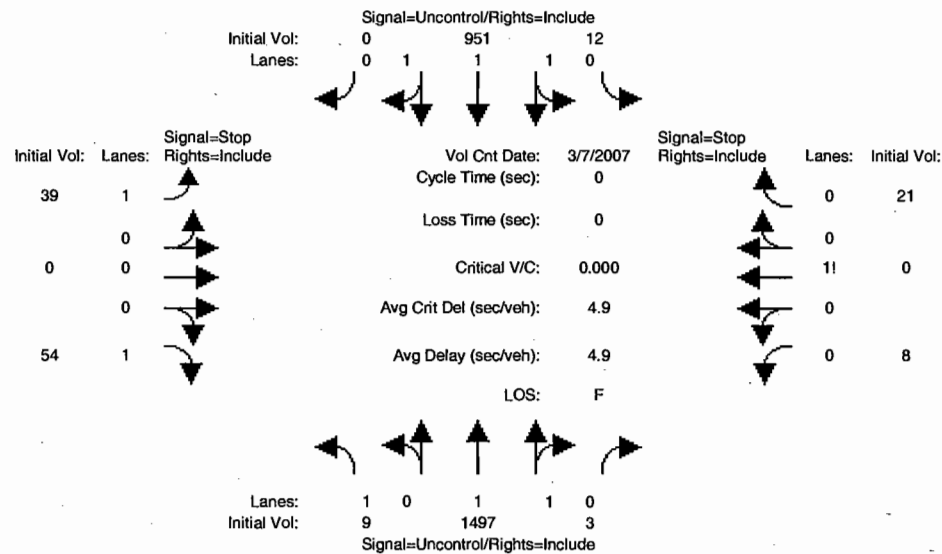
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5175 Broadway

Oakland, California

Level Of Service Computation Report
 2000 HCM Unsignalized (Future Volume Alternative)
 Project PM Conditions

Intersection #3: Broadway at Coronado Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module: >> Count Date: 7 Mar 2007 <<												
Base Vol:	9	1497	3	12	947	0	37	0	45	8	0	21
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	9	1497	3	12	947	0	37	0	45	8	0	21
Added Vol:	0	0	0	0	4	0	2	0	9	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	9	1497	3	12	951	0	39	0	54	8	0	21
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
PHF Volume:	9	1576	3	13	1001	0	41	0	57	8	0	22
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Final Volume:	9	1576	3	13	1001	0	41	0	57	8	0	22
Critical Gap Module:												
Critical Gp:	4.1	xxxx	xxxx	4.1	xxxx	xxxx	7.5	xxxx	6.9	7.5	6.5	6.9
FollowUpTim:	2.2	xxxx	xxxx	2.2	xxxx	xxxx	3.5	xxxx	3.3	3.5	4.0	3.3
Capacity Module:												
Cnflict Vol:	1001	xxxx	xxxx	1579	xxxx	xxxx	1833	xxxx	334	1955	2623	789
Potent Cap.:	700	xxxx	xxxx	422	xxxx	xxxx	48	xxxx	668	39	24	338
Move Cap.:	700	xxxx	xxxx	422	xxxx	xxxx	44	xxxx	668	35	23	338
Volume/Cap:	0.01	xxxx	xxxx	0.03	xxxx	xxxx	0.94	xxxx	0.09	0.24	0.00	0.07
Level Of Service Module:												
2Way95thQ:	0.0	xxxx	xxxx	0.1	xxxx	xxxx	3.8	xxxx	0.3	xxxx	xxxx	xxxx
Control Del:	10.2	xxxx	xxxx	13.8	xxxx	xxxx	260.7	xxxx	10.9	xxxx	xxxx	xxxx
LOS by Move:	B	*	*	B	*	*	F	*	B	*	*	*
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT
Shared Cap.:	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	99	xxxx	xxxx
Shared Queue:	xxxx	xxxx	xxxx	0.1	xxxx	xxxx	xxxx	xxxx	xxxx	1.2	xxxx	xxxx
Shrd ConDel:	xxxx	xxxx	xxxx	13.8	xxxx	xxxx	xxxx	xxxx	xxxx	56.9	xxxx	xxxx
Shared LOS:	*	*	*	B	*	*	*	*	*	F	*	*
ApproachDel:	xxxxxx			xxxxxx			115.7			56.9		
ApproachLOS:	*			*			F			F		

Peak Hour Delay Signal Warrant Report

Intersection #3 Broadway at Coronado Ave

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Uncontrolled	Uncontrolled	Stop Sign	Stop Sign
Lanes:	1 0 1 1 0	0 1 1 1 0	1 0 0 0 1	0 0 1! 0 0
Initial Vol:	9 1497 3	12 951 0	39 0 54	8 0 21
ApproachDel:	xxxxxx	xxxxxx	115.7	56.9

Approach[eastbound][lanes=2][control=Stop Sign]

Signal Warrant Rule #1: [vehicle-hours=3.0]

FAIL - Vehicle-hours less than 5 for two or more lane approach.

Signal Warrant Rule #2: [approach volume=93]

FAIL - Approach volume less than 150 for two or more lane approach.

Signal Warrant Rule #3: [approach count=4][total volume=2594]

SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[westbound][lanes=1][control=Stop Sign]

Signal Warrant Rule #1: [vehicle-hours=0.5]

FAIL - Vehicle-hours less than 4 for one lane approach.

Signal Warrant Rule #2: [approach volume=29]

FAIL - Approach volume less than 100 for one lane approach.

Signal Warrant Rule #3: [approach count=4][total volume=2594]

SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER

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Peak Hour Volume Signal Warrant Report [Urban]

Intersection #3 Broadway at Coronado Ave

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Uncontrolled	Uncontrolled	Stop Sign	Stop Sign
Lanes:	1 0 1 1 0	0 1 1 1 0	1 0 0 0 1	0 0 1! 0 0
Initial Vol:	9 1497 3	12 951 0	39 0 54	8 0 21

Major Street Volume: 2472

Minor Approach Volume: 93

Minor Approach Volume Threshold: -15 [less than minimum of 150]

SIGNAL WARRANT DISCLAIMER

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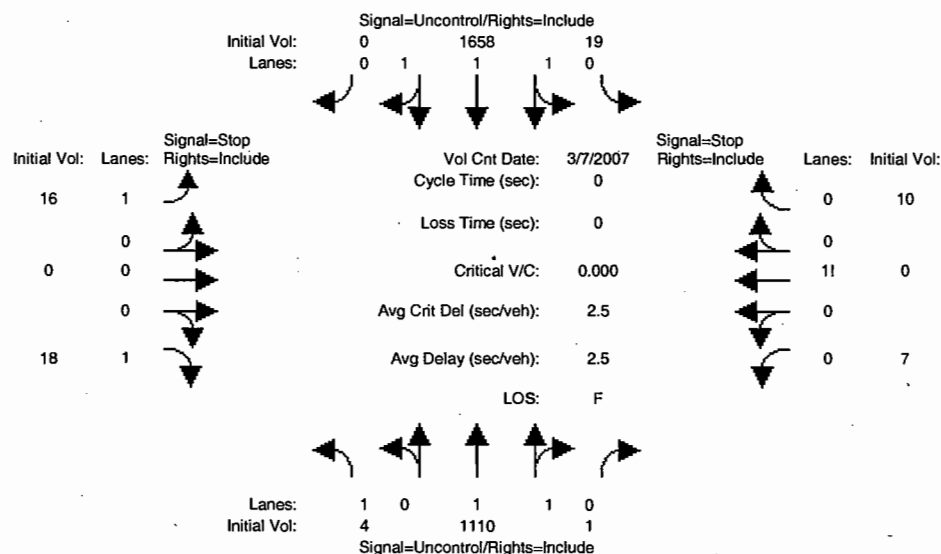
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5175 Broadway

Oakland, California

Level Of Service Computation Report
 2000 HCM Unsignalized (Future Volume Alternative)
 Cumulative AM Conditions No Project

Intersection #3: Broadway at Coronado Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module: >> Count Date: 7 Mar 2007 <<												
Base Vol:	3	810	1	14	1210	0	12	0	13	5	0	7
Growth Adj:	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
Initial Bse:	4	1110	1	19	1658	0	16	0	18	7	0	10
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	4	1110	1	19	1658	0	16	0	18	7	0	10
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	4	1110	1	19	1658	0	16	0	18	7	0	10
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Final Volume:	4	1110	1	19	1658	0	16	0	18	7	0	10
Critical Gap Module:												
Critical Gp:	4.1	xxxx	xxxxx	4.1	xxxx	xxxxx	7.5	xxxx	6.9	7.5	6.5	6.9
FollowUpTim:	2.2	xxxx	xxxxx	2.2	xxxx	xxxxx	3.5	xxxx	3.3	3.5	4.0	3.3
Capacity Module:												
Cnflict Vol:	1658	xxxx	xxxxx	1111	xxxx	xxxxx	2259	xxxx	553	1710	2815	556
Potent Cap.:	394	xxxx	xxxxx	636	xxxx	xxxxx	23	xxxx	482	60	18	480
Move Cap.:	394	xxxx	xxxxx	636	xxxx	xxxxx	22	xxxx	482	56	18	480
Volume/Cap:	0.01	xxxx	xxxx	0.03	xxxx	xxxx	0.75	xxxx	0.04	0.12	0.00	0.02
Level Of Service Module:												
2Way95thQ:	0.0	xxxx	xxxxx	0.1	xxxx	xxxxx	2.2	xxxx	0.1	xxxx	xxxx	xxxxx
Control Del:	14.2	xxxx	xxxxx	10.8	xxxx	xxxxx	357.6	xxxx	12.8	xxxx	xxxx	xxxxx
LOS by Move:	B	*	*	B	*	*	F	*	B	*	*	*
Movement:	LT - LTR - RT				LT - LTR - RT				LT - LTR - RT			
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	115	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	0.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	0.5	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	10.8	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	41.3	xxxxx
Shared LOS:	*	*	*	B	*	*	*	*	*	*	E	*
ApproachDel:	xxxxxx				xxxxxx				178.3			
ApproachLOS:	*				*				F			

Peak Hour Delay Signal Warrant Report

 Intersection #3 Broadway at Coronado Ave

 Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound	South Bound	East Bound	West Bound
-----------	-------------	-------------	------------	------------

Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Uncontrolled	Uncontrolled	Stop Sign	Stop Sign
Lanes:	1 0 1 1 0	0 1 1 1 0	1 0 0 0 1	0 0 1 0 0
Initial Vol:	4 1110	1 19 1658	0 16 0 18	7 0 10
ApproachDel:	xxxxxx	xxxxxx	178.3	41.3

Approach[eastbound][lanes=2][control=Stop Sign]

Signal Warrant Rule #1: [vehicle-hours=1.7]

FAIL - Vehicle-hours less than 5 for two or more lane approach.

Signal Warrant Rule #2: [approach volume=34]

FAIL - Approach volume less than 150 for two or more lane approach.

Signal Warrant Rule #3: [approach count=4][total volume=2843]

SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[westbound][lanes=1][control=Stop Sign]

Signal Warrant Rule #1: [vehicle-hours=0.2]

FAIL - Vehicle-hours less than 4 for one lane approach.

Signal Warrant Rule #2: [approach volume=16]

FAIL - Approach volume less than 100 for one lane approach.

Signal Warrant Rule #3: [approach count=4][total volume=2843]

SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER

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Peak Hour Volume Signal Warrant Report [Urban]

Intersection #3 Broadway at Coronado Ave

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Uncontrolled	Uncontrolled	Stop Sign	Stop Sign
Lanes:	1 0 1 1 0	0 1 1 1 0	1 0 0 0 1	0 0 1 0 0
Initial Vol:	4 1110	1 19 1658	0 16 0 18	7 0 10

Major Street Volume: 2792

Minor Approach Volume: 34

Minor Approach Volume Threshold: -67 [less than minimum of 150]

SIGNAL WARRANT DISCLAIMER

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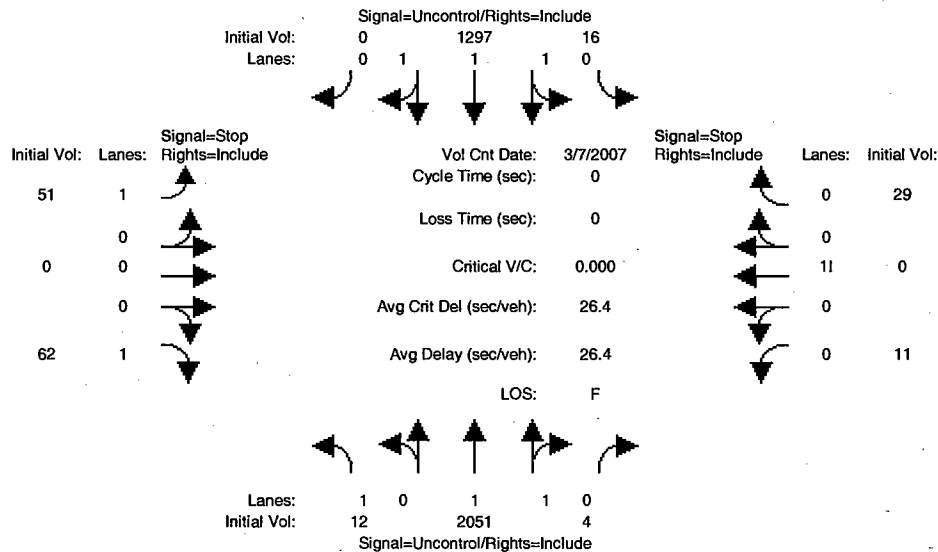
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5175 Broadway

Oakland, California

Level Of Service Computation Report
 2000 HCM Unsignalized (Future Volume Alternative)
 Cumulative PM Conditions No Project

Intersection #3: Broadway at Coronado Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module: >> Count Date: 7 Mar 2007 <<												
Base Vol:	9	1497	3	12	947	0	37	0	45	8	0	21
Growth Adj:	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
Initial Bse:	12	2051	4	16	1297	0	51	0	62	11	0	29
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	12	2051	4	16	1297	0	51	0	62	11	0	29
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	12	2051	4	16	1297	0	51	0	62	11	0	29
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	12	2051	4	16	1297	0	51	0	62	11	0	29
Critical Gap Module:												
Critical Gp:	4.1	xxxx	xxxxx	4.1	xxxx	xxxxx	7.5	xxxx	6.9	7.5	6.5	6.9
FollowUpTim:	2.2	xxxx	xxxxx	2.2	xxxx	xxxxx	3.5	xxxx	3.3	3.5	4.0	3.3
Capacity Module:												
Cnflict Vol:	1297	xxxx	xxxxx	2055	xxxx	xxxxx	2380	xxxx	432	2543	3408	1028
Potent Cap.:	541	xxxx	xxxxx	277	xxxx	xxxxx	19	xxxx	577	14	7	235
Move Cap.:	541	xxxx	xxxxx	277	xxxx	xxxxx	15	xxxx	577	12	7	235
Volume/Cap:	0.02	xxxx	xxxx	0.06	xxxx	xxxx	3.32	xxxx	0.11	0.94	0.00	0.12
Level Of Service Module:												
2Way95thQ:	0.1	xxxx	xxxxx	0.2	xxxx	xxxxx	7.1	xxxx	0.4	xxxx	xxxx	xxxxx
Control Del:	11.8	xxxx	xxxxx	18.8	xxxx	xxxxx	1554	xxxx	12.0	xxxxx	xxxx	xxxxx
LOS by Move:	B	*	*	C	*	*	F	*	B	*	*	*
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	37	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	0.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	4.0	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	18.8	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	331	xxxxx
Shared LOS:	*	*	*	C	*	*	*	*	*	*	F	*
ApproachDel:	xxxxxx			xxxxxx			708.0			331.3		
ApproachLOS:	*			*			F			F		

Peak Hour Delay Signal Warrant Report

Intersection #3 Broadway at Coronado Ave

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Uncontrolled	Uncontrolled	Stop Sign	Stop Sign
Lanes:	1 0 1 1 0	0 1 1 1 0	1 0 0 0 1	0 0 1! 0 0
Initial Vol:	12 2051 4	16 1297 0	51 0 62	11 0 29
ApproachDel:	xxxxxx	xxxxxx	708.0	331.3

Approach[eastbound][lanes=2][control=Stop Sign]

Signal Warrant Rule #1: [vehicle-hours=22.1]

SUCCEED - Vehicle-hours >= 5 for two or more lane approach.

Signal Warrant Rule #2: [approach volume=112]

FAIL - Approach volume less than 150 for two or more lane approach.

Signal Warrant Rule #3: [approach count=4][total volume=3533]

SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[westbound][lanes=1][control=Stop Sign]

Signal Warrant Rule #1: [vehicle-hours=3.7]

FAIL - Vehicle-hours less than 4 for one lane approach.

Signal Warrant Rule #2: [approach volume=40]

FAIL - Approach volume less than 100 for one lane approach.

Signal Warrant Rule #3: [approach count=4][total volume=3533]

SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER

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Peak Hour Volume Signal Warrant Report [Urban]

Intersection #3 Broadway at Coronado Ave

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Uncontrolled	Uncontrolled	Stop Sign	Stop Sign
Lanes:	1 0 1 1 0	0 1 1 1 0	1 0 0 0 1	0 0 1! 0 0
Initial Vol:	12 2051 4	16 1297 0	51 0 62	11 0 29

Major Street Volume: 3381

Minor Approach Volume: 112

Minor Approach Volume Threshold: -150 [less than minimum of 150]

SIGNAL WARRANT DISCLAIMER

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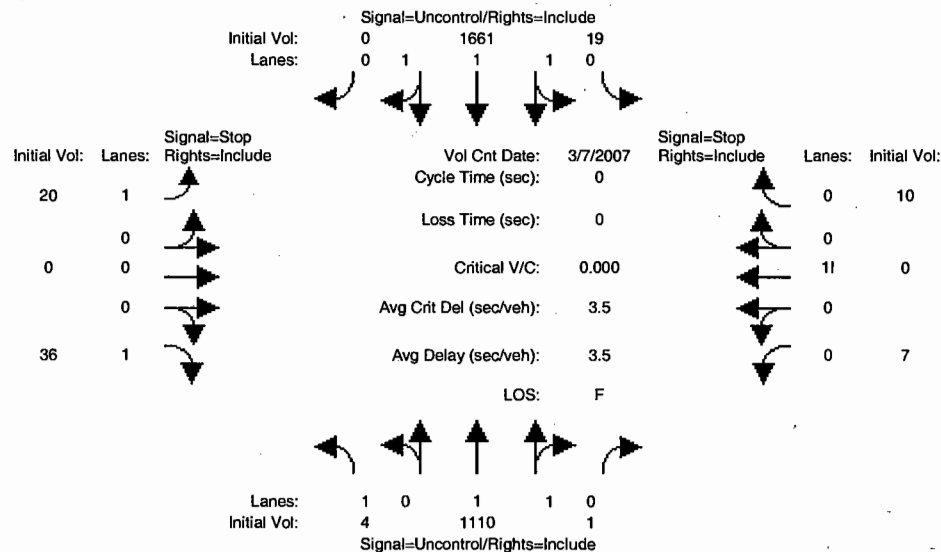
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5175 Broadway

Oakland, California

Level Of Service Computation Report
 2000 HCM Unsignalized (Future Volume Alternative)
 Cumulative AM Conditions

Intersection #3: Broadway at Coronado Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module: >> Count Date: 7 Mar 2007 <<												
Base Vol:	3	810	1	14	1210	0	12	0	13	5	0	7
Growth Adj:	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
Initial Bse:	4	1110	1	19	1658	0	16	0	18	7	0	10
Added Vol:	0	0	0	0	3	0	4	0	18	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	4	1110	1	19	1661	0	20	0	36	7	0	10
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	4	1110	1	19	1661	0	20	0	36	7	0	10
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	4	1110	1	19	1661	0	20	0	36	7	0	10
Critical Gap Module:												
Critical Gp:	4.1	xxxx	xxxxx	4.1	xxxx	xxxxx	7.5	xxxx	6.9	7.5	6.5	6.9
FollowUpTim:	2.2	xxxx	xxxxx	2.2	xxxx	xxxxx	3.5	xxxx	3.3	3.5	4.0	3.3
Capacity Module:												
Cnflct Vol:	1661	xxxx	xxxxx	1111	xxxx	xxxxx	2262	xxxx	554	1711	2818	556
Potent Cap.:	393	xxxx	xxxxx	636	xxxx	xxxxx	23	xxxx	481	60	18	480
Move Cap.:	393	xxxx	xxxxx	636	xxxx	xxxxx	22	xxxx	481	54	17	480
Volume/Cap:	0.01	xxxx	xxxx	0.03	xxxx	xxxx	0.94	xxxx	0.07	0.13	0.00	0.02
Level Of Service Module:												
2Way95thQ:	0.0	xxxx	xxxxx	0.1	xxxx	xxxxx	2.7	xxxx	0.2	xxxx	xxxx	xxxxx
Control Del:	14.3	xxxx	xxxxx	10.8	xxxx	xxxxx	423.5	xxxx	13.1	xxxxx	xxxx	xxxxx
LOS by Move:	B	*	*	B	*	*	F	*	B	*	*	*
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	111	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	0.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	0.5	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	10.8	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	42.9	xxxxx
Shared LOS:	*	*	*	B	*	*	*	*	*	*	E	*
ApproachDel:	xxxxxx			xxxxxx			162.2			42.9		
ApproachLOS:	*			*			F			E		

Peak Hour Delay Signal Warrant Report

Intersection #3 Broadway at Coronado Ave

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Uncontrolled	Uncontrolled	Stop Sign	Stop Sign
Lanes:	1 0 1 1 0	0 1 1 1 0	1 0 0 0 1	0 0 1! 0 0
Initial Vol:	4 1110	19 1661	20 0 36	7 0 10
ApproachDel:	xxxxxx	xxxxxx	162.2	42.9

Approach[eastbound][lanes=2][control=Stop Sign]

Signal Warrant Rule #1: [vehicle-hours=2.5]

FAIL - Vehicle-hours less than 5 for two or more lane approach.

Signal Warrant Rule #2: [approach volume=56]

FAIL - Approach volume less than 150 for two or more lane approach.

Signal Warrant Rule #3: [approach count=4][total volume=2868]

SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[westbound][lanes=1][control=Stop Sign]

Signal Warrant Rule #1: [vehicle-hours=0.2]

FAIL - Vehicle-hours less than 4 for one lane approach.

Signal Warrant Rule #2: [approach volume=16]

FAIL - Approach volume less than 100 for one lane approach.

Signal Warrant Rule #3: [approach count=4][total volume=2868]

SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER

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Peak Hour Volume Signal Warrant Report [Urban]

Intersection #3 Broadway at Coronado Ave

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Uncontrolled	Uncontrolled	Stop Sign	Stop Sign
Lanes:	1 0 1 1 0	0 1 1 1 0	1 0 0 0 1	0 0 1! 0 0
Initial Vol:	4 1110	19 1661	20 0 36	7 0 10

Major Street Volume: 2795

Minor Approach Volume: 56

Minor Approach Volume Threshold: -68 [less than minimum of 150]

SIGNAL WARRANT DISCLAIMER

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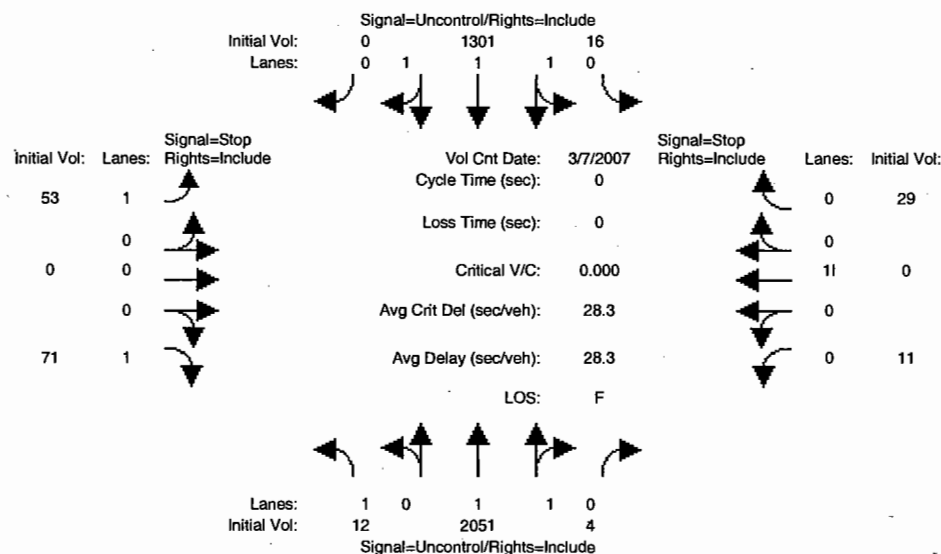
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5175 Broadway

Oakland, California

Level Of Service Computation Report
 2000 HCM Unsignalized (Future Volume Alternative)
 Cumulative PM Conditions

Intersection #3: Broadway at Coronado Ave



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Volume Module: >> Count Date: 7 Mar 2007 <<												
Base Vol:	9	1497	3	12	947	0	37	0	45	8	0	21
Growth Adj:	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
Initial Bse:	12	2051	4	16	1297	0	51	0	62	11	0	29
Added Vol:	0	0	0	0	4	0	2	0	9	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	12	2051	4	16	1301	0	53	0	71	11	0	29
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	12	2051	4	16	1301	0	53	0	71	11	0	29
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Final Volume:	12	2051	4	16	1301	0	53	0	71	11	0	29
Critical Gap Module:												
Critical Gp:	4.1	xxxx	xxxxxx	4.1	xxxx	xxxxxx	7.5	xxxx	6.9	7.5	6.5	6.9
FollowUpTim:	2.2	xxxx	xxxxxx	2.2	xxxx	xxxxxx	3.5	xxxx	3.3	3.5	4.0	3.3
Capacity Module:												
Cnflct Vol:	1301	xxxx	xxxxxx	2055	xxxx	xxxxxx	2384	xxxx	434	2544	3412	1028
Potent Cap.:	539	xxxx	xxxxxx	277	xxxx	xxxxxx	18	xxxx	576	14	7	235
Move Cap.:	539	xxxx	xxxxxx	277	xxxx	xxxxxx	15	xxxx	576	11	7	235
Volume/Cap:	0.02	xxxx	xxxx	0.06	xxxx	xxxx	3.48	xxxx	0.12	0.96	0.00	0.12
Level Of Service Module:												
2Way95thQ:	0.1	xxxx	xxxxxx	0.2	xxxx	xxxxxx	7.4	xxxx	0.4	xxxx	xxxx	xxxxxx
Control Del:	11.8	xxxx	xxxxxx	18.8	xxxx	xxxxxx	1627	xxxx	12.1	xxxxxx	xxxx	xxxxxx
LOS by Move:	B	*	*	C	*	*	F	*	B	*	*	*
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT
Shared Cap.:	xxxx	xxxx	xxxxxx	xxxx	xxxx	xxxxxx	xxxx	xxxx	xxxxxx	xxxx	37	xxxxxx
SharedQueue:	xxxxxx	xxxx	xxxxxx	0.2	xxxx	xxxxxx	xxxxxx	xxxx	xxxxxx	xxxxxx	4.1	xxxxxx
Shrd ConDel:	xxxxxx	xxxx	xxxxxx	18.8	xxxx	xxxxxx	xxxxxx	xxxx	xxxxxx	xxxxxx	342	xxxxxx
Shared LOS:	*	*	*	C	*	*	*	*	*	*	F	*
ApproachDel:	xxxxxx			xxxxxx			701.8			341.6		
ApproachLOS:	*			*			F			F		

Peak Hour Delay Signal Warrant Report

Intersection #3 Broadway at Coronado Ave

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Uncontrolled	Uncontrolled	Stop Sign	Stop Sign
Lanes:	1 0 1 1 0	0 1 1 1 0	1 0 0 0 1	0 0 1! 0 0
Initial Vol:	12 2051 4	16 1301 0	53 0 71	11 0 29
ApproachDel:	xxxxxx	xxxxxx	701.8	341.6

Approach[eastbound][lanes=2][control=Stop Sign]

Signal Warrant Rule #1: [vehicle-hours=24.0]

SUCCEED - Vehicle-hours >= 5 for two or more lane approach.

Signal Warrant Rule #2: [approach volume=123]

FAIL - Approach volume less than 150 for two or more lane approach.

Signal Warrant Rule #3: [approach count=4][total volume=3548]

SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

Approach[westbound][lanes=1][control=Stop Sign]

Signal Warrant Rule #1: [vehicle-hours=3.8]

FAIL - Vehicle-hours less than 4 for one lane approach.

Signal Warrant Rule #2: [approach volume=40]

FAIL - Approach volume less than 100 for one lane approach.

Signal Warrant Rule #3: [approach count=4][total volume=3548]

SUCCEED - Total volume greater than or equal to 800 for intersection with four or more approaches.

SIGNAL WARRANT DISCLAIMER

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Peak Hour Volume Signal Warrant Report [Urban]

Intersection #3 Broadway at Coronado Ave

Future Volume Alternative: Peak Hour Warrant NOT Met

Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Uncontrolled	Uncontrolled	Stop Sign	Stop Sign
Lanes:	1 0 1 1 0	0 1 1 1 0	1 0 0 0 1	0 0 1! 0 0
Initial Vol:	12 2051 4	16 1301 0	53 0 71	11 0 29

Major Street Volume: 3385

Minor Approach Volume: 123

Minor Approach Volume Threshold: -150 [less than minimum of 150]

SIGNAL WARRANT DISCLAIMER

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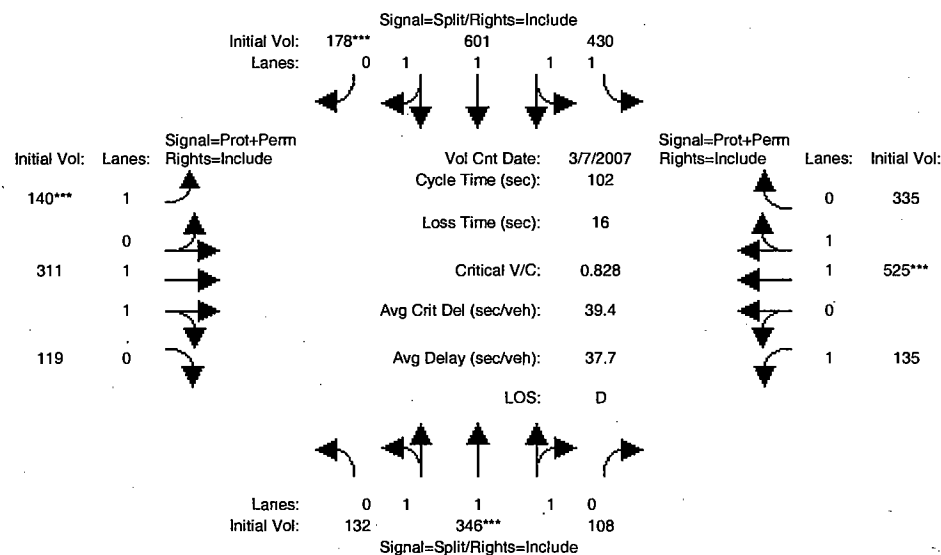
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5175 Broadway

Oakland, California

Level Of Service Computation Report
 2000 HCM Operations (Future Volume Alternative)
 Base AM Conditions

Intersection #4: Broadway at 51st/Pleasant Valley



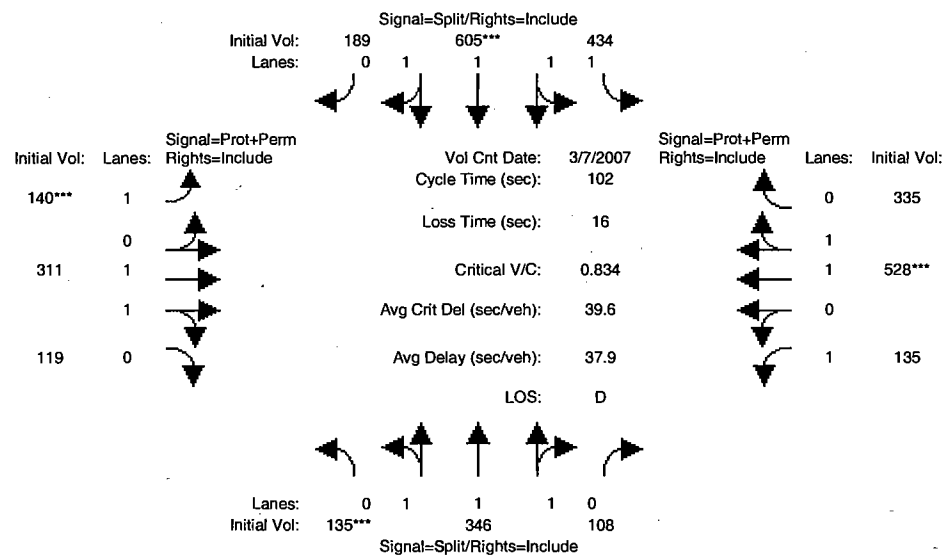
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Volume Module: >> Count Date: 7 Mar 2007 <<												
Base Vol:	132	346	108	430	601	178	140	311	119	135	525	335
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	132	346	108	430	601	178	140	311	119	135	525	335
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	132	346	108	430	601	178	140	311	119	135	525	335
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
PHF Volume:	143	376	117	467	653	193	152	338	129	147	571	364
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	143	376	117	467	653	193	152	338	129	147	571	364
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	143	376	117	467	653	193	152	338	129	147	571	364
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.87	0.87	0.87	0.87	0.87	0.87	0.95	0.91	0.91	0.95	0.89	0.89
Lanes:	0.68	1.77	0.55	1.42	1.99	0.59	1.00	1.45	0.55	1.00	1.22	0.78
Final Sat.:	1123	2944	919	2365	3305	979	1805	2501	957	1805	2076	1325
Capacity Analysis Module:												
Vol/Sat:	0.13	0.13	0.13	0.20	0.20	0.20	0.08	0.14	0.14	0.08	0.27	0.27
Crit Moves:	****			****			****			****		
Green/Cycle:	0.16	0.16	0.16	0.24	0.24	0.24	0.36	0.26	0.26	0.48	0.34	0.34
Volume/Cap:	0.81	0.81	0.81	0.81	0.81	0.81	0.58	0.53	0.53	0.29	0.81	0.81
Delay/Veh:	48.0	48.0	48.0	39.6	39.6	39.6	27.2	33.2	33.2	16.1	35.3	35.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	48.0	48.0	48.0	39.6	39.6	39.6	27.2	33.2	33.2	16.1	35.3	35.3
LOS by Move:	D	D	D	D	D	D	C	C	C	B	D	D
HCM2kAvgQ:	9	9	9	13	13	13	5	7	7	3	16	16

5175 Broadway

Oakland, California

Level Of Service Computation Report
 2000 HCM Operations (Future Volume Alternative)
 Project AM Conditions

Intersection #4: Broadway at 51st/Pleasant Valley



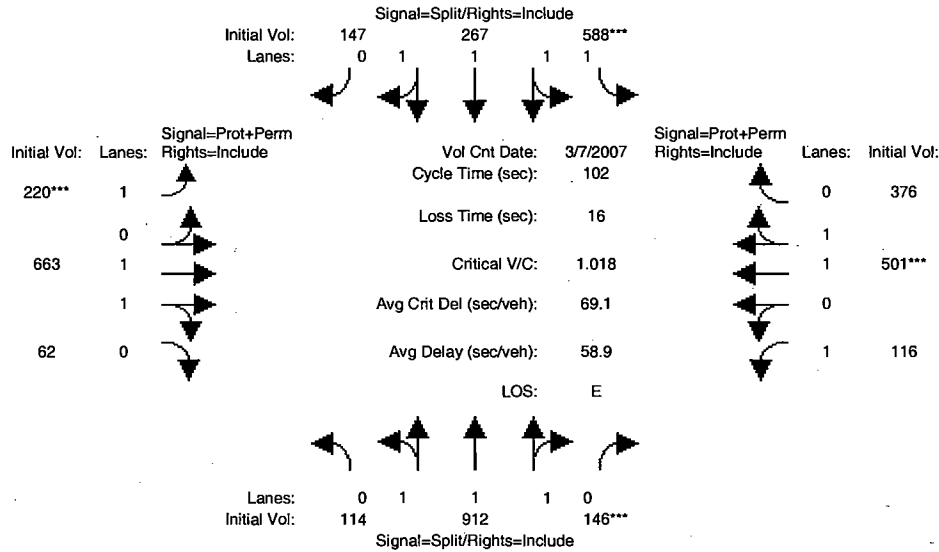
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Volume Module: >> Count Date: 7 Mar 2007 <<												
Base Vol:	132	346	108	430	601	178	140	311	119	135	525	335
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	132	346	108	430	601	178	140	311	119	135	525	335
Added Vol:	3	0	0	4	4	11	0	0	0	0	3	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	135	346	108	434	605	189	140	311	119	135	528	335
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
PHF Volume:	147	376	117	472	658	205	152	338	129	147	574	364
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	147	376	117	472	658	205	152	338	129	147	574	364
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	147	376	117	472	658	205	152	338	129	147	574	364
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.88	0.88	0.88	0.87	0.87	0.87	0.95	0.91	0.91	0.95	0.89	0.89
Lanes:	0.69	1.76	0.55	1.41	1.97	0.62	1.00	1.45	0.55	1.00	1.22	0.78
Final Sat.:	1144	2932	915	2347	3272	1022	1805	2501	957	1805	2081	1320
Capacity Analysis Module:												
Vol/Sat:	0.13	0.13	0.13	0.20	0.20	0.20	0.08	0.14	0.14	0.08	0.28	0.28
Crit Moves:	****			****			****			****		
Green/Cycle:	0.16	0.16	0.16	0.25	0.25	0.25	0.36	0.26	0.26	0.48	0.34	0.34
Volume/Cap:	0.82	0.82	0.82	0.82	0.82	0.82	0.58	0.53	0.53	0.30	0.82	0.82
Delay/Veh:	48.3	48.3	48.3	39.7	39.7	39.7	27.4	33.3	33.3	16.2	35.6	35.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	48.3	48.3	48.3	39.7	39.7	39.7	27.4	33.3	33.3	16.2	35.6	35.6
LOS by Move:	D	D	D	D	D	D	C	C	C	B	D	D
HCM2kAvgQ:	9	9	9	13	13	13	5	7	7	3	16	16

5175 Broadway

Oakland, California

Level Of Service Computation Report
 2000 HCM Operations (Future Volume Alternative)
 Base PM Conditions

Intersection #4: Broadway at 51st/Pleasant Valley



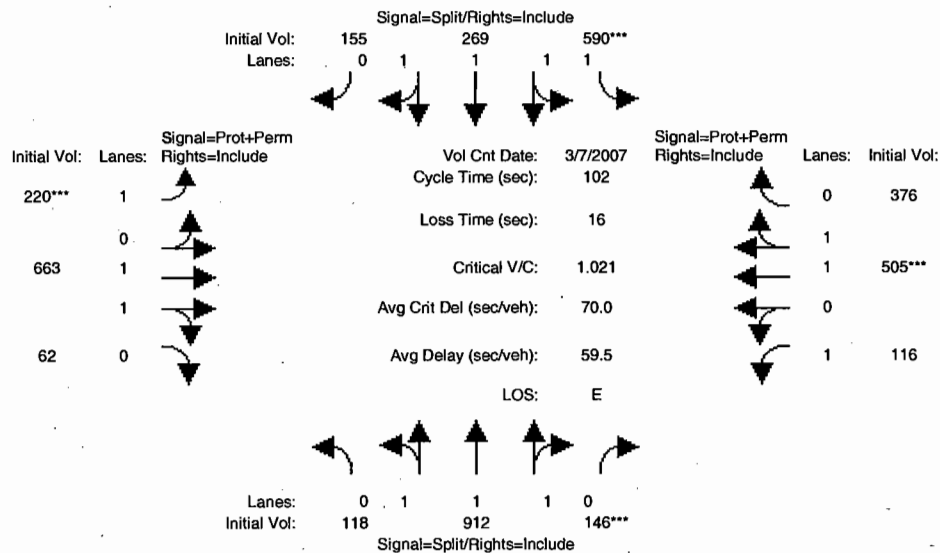
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Volume Module: >> Count Date: 7 Mar 2007 <<												
Base Vol:	114	912	146	588	267	147	220	663	62	116	501	376
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	114	912	146	588	267	147	220	663	62	116	501	376
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	114	912	146	588	267	147	220	663	62	116	501	376
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
PHF Volume:	124	991	159	639	290	160	239	721	67	126	545	409
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	124	991	159	639	290	160	239	721	67	126	545	409
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	124	991	159	639	290	160	239	721	67	126	545	409
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.89	0.89	0.89	0.86	0.86	0.86	0.84	0.94	0.94	0.95	0.89	0.89
Lanes:	0.29	2.34	0.37	2.00	1.29	0.71	1.00	1.83	0.17	1.00	1.14	0.86
Final Sat.:	492	3940	631	3284	2118	1166	1588	3258	305	1805	1930	1449
Capacity Analysis Module:												
Vol/Sat:	0.25	0.25	0.25	0.19	0.14	0.14	0.15	0.22	0.22	0.07	0.28	0.28
Crit Moves:			****			****			****			****
Green/Cycle:	0.25	0.25	0.25	0.19	0.19	0.19	0.45	0.28	0.28	0.40	0.28	0.28
Volume/Cap:	1.02	1.02	1.02	1.02	0.72	0.72	0.77	0.79	0.79	0.42	1.02	1.02
Delay/Veh:	69.3	69.3	69.3	74.2	40.4	40.4	34.4	38.0	38.0	22.4	71.8	71.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	69.3	69.3	69.3	74.2	40.4	40.4	34.4	38.0	38.0	22.4	71.8	71.8
LOS by Move:	E	E	E	E	D	D	C	D	D	C	E	E
HCM2kAvgQ:	21	21	21	17	9	9	8	14	14	3	23	23

5175 Broadway

Oakland, California

Level Of Service Computation Report
 2000 HCM Operations (Future Volume Alternative)
 Project PM Conditions

Intersection #4: Broadway at 51st/Pleasant Valley



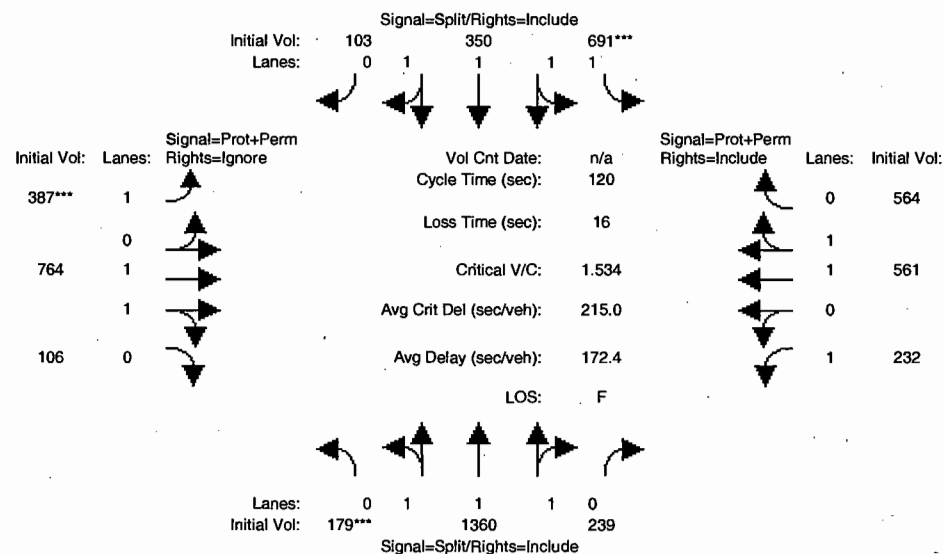
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Volume Module: >> Count Date: 7 Mar 2007 <<												
Base Vol:	114	912	146	588	267	147	220	663	62	116	501	376
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	114	912	146	588	267	147	220	663	62	116	501	376
Added Vol:	4	0	0	2	2	8	0	0	0	0	4	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	118	912	146	590	269	155	220	663	62	116	505	376
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
PHF Volume:	128	991	159	641	292	168	239	721	67	126	549	409
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	128	991	159	641	292	168	239	721	67	126	549	409
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	128	991	159	641	292	168	239	721	67	126	549	409
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.89	0.89	0.89	0.86	0.86	0.86	0.82	0.94	0.94	0.95	0.89	0.89
Lanes:	0.30	2.33	0.37	2.00	1.27	0.73	1.00	1.83	0.17	1.00	1.15	0.85
Final Sat.:	508	3926	629	3284	2083	1200	1559	3258	305	1805	1937	1442
Capacity Analysis Module:												
Vol/Sat:	0.25	0.25	0.25	0.20	0.14	0.14	0.15	0.22	0.22	0.07	0.28	0.28
Crit Moves:	****			****			****			****		
Green/Cycle:	0.25	0.25	0.25	0.19	0.19	0.19	0.45	0.28	0.28	0.40	0.28	0.28
Volume/Cap:	1.02	1.02	1.02	1.02	0.74	0.74	0.78	0.79	0.79	0.42	1.02	1.02
Delay/Veh:	70.3	70.3	70.3	75.1	40.8	40.8	34.7	38.0	38.0	22.4	72.7	72.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	70.3	70.3	70.3	75.1	40.8	40.8	34.7	38.0	38.0	22.4	72.7	72.7
LOS by Move:	E	E	E	E	D	D	C	D	D	C	E	E
HCM2kAvgQ:	22	22	22	17	9	9	8	14	14	3	23	23

5175 Broadway

Oakland, California

Level Of Service Computation Report
 2000 HCM Operations (Future Volume Alternative)
 Cumulative AM Conditions No Project

Intersection #4: Broadway at 51st/Pleasant Valley



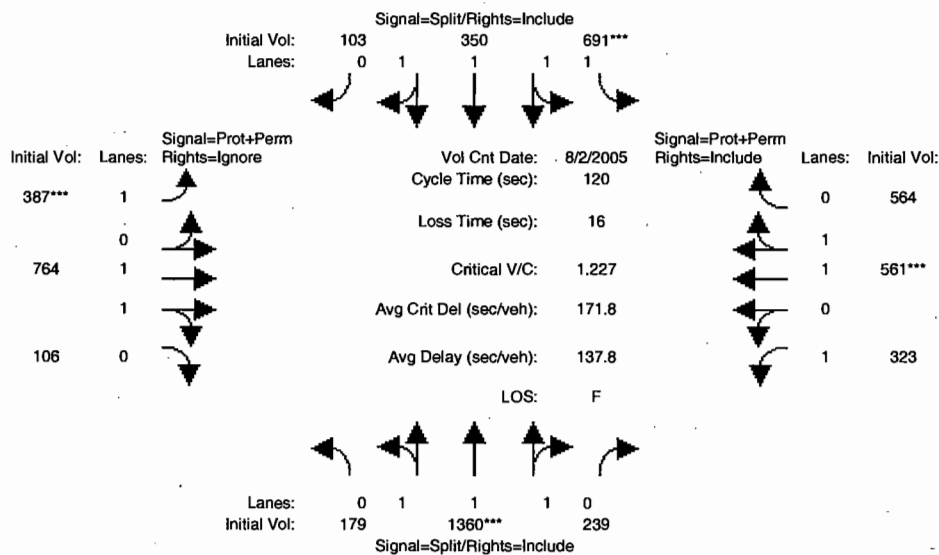
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Volume Module:												
Base Vol:	179	1360	239	691	350	103	387	764	106	232	561	564
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	179	1360	239	691	350	103	387	764	106	232	561	564
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	179	1360	239	691	350	103	387	764	106	232	561	564
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.00	0.92	0.92	0.92
PHF Volume:	195	1478	260	751	380	112	421	830	0	252	610	613
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	195	1478	260	751	380	112	421	830	0	252	610	613
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Final Volume:	195	1478	260	751	380	112	421	830	0	252	610	613
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.89	0.89	0.89	0.87	0.87	0.87	0.31	0.95	0.95	0.95	0.88	0.88
Lanes:	0.30	2.30	0.40	2.00	1.55	0.45	1.00	2.00	0.00	1.00	1.00	1.00
Final Sat.:	509	3869	680	3314	2561	754	584	3610	0	1805	1670	1670
Capacity Analysis Module:												
Vol/Sat:	0.38	0.38	0.38	0.23	0.15	0.15	0.72	0.23	0.00	0.14	0.37	0.37
Crit Moves:	****			****			****					
Green/Cycle:	0.27	0.27	0.27	0.16	0.16	0.16	0.47	0.27	0.00	0.42	0.26	0.26
Volume/Cap:	1.39	1.39	1.39	1.39	0.91	0.91	1.15	0.86	0.00	0.71	1.39	1.40
Delay/Veh:	224.7	225	224.7	233.8	59.0	59.0	114.5	49.8	0.0	33.5	228	231.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	224.7	225	224.7	233.8	59.0	59.0	114.5	49.8	0.0	33.5	228	231.3
LOS by Move:	F	F	F	F	E	E	F	D	A	C	F	F
HCM2kAvgQ:	52	52	52	31	13	13	25	18	0	9	47	48

5175 Broadway

Oakland, California

Level Of Service Computation Report
 2000 HCM Operations (Future Volume Alternative)
 Cumulative PM Conditions No Project

Intersection #4: Broadway at 51st/Pleasant Valley



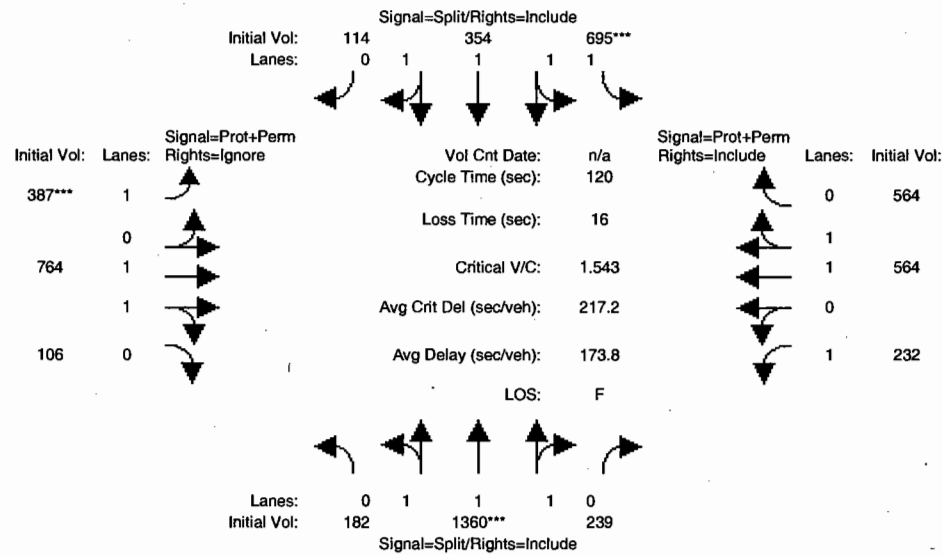
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Volume Module: >> Count Date: 2 Aug 2005 <<												
Base Vol:	179	1360	239	691	350	103	387	764	106	323	561	564
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	179	1360	239	691	350	103	387	764	106	323	561	564
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	179	1360	239	691	350	103	387	764	106	323	561	564
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	179	1360	239	691	350	103	387	764	0	323	561	564
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	179	1360	239	691	350	103	387	764	0	323	561	564
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Final Volume:	179	1360	239	691	350	103	387	764	0	323	561	564
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.89	0.89	0.89	0.87	0.87	0.87	0.42	0.95	0.95	0.95	0.88	0.88
Lanes:	0.30	2.30	0.40	2.00	1.55	0.45	1.00	2.00	0.00	1.00	1.00	1.00
Final Sat.:	509	3869	680	3314	2561	754	807	3610	0	1805	1670	1670
Capacity Analysis Module:												
Vol/Sat:	0.35	0.35	0.35	0.21	0.14	0.14	0.48	0.21	0.00	0.18	0.34	0.34
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green/Cycle:	0.27	0.27	0.27	0.16	0.16	0.16	0.40	0.23	0.00	0.46	0.26	0.26
Volume/Cap:	1.28	1.28	1.28	1.28	0.84	0.84	1.06	0.91	0.00	0.77	1.28	1.29
Delay/Veh:	175.8	176	175.8	185.4	53.6	53.6	90.6	58.5	0.0	38.9	180	182.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	175.8	176	175.8	185.4	53.6	53.6	90.6	58.5	0.0	38.9	180	182.6
LOS by Move:	F	F	F	F	D	D	F	E	A	D	F	F
HCM2kAvgQ:	43	43	43	27	11	11	21	18	0	12	40	40

5175 Broadway

Oakland, California

Level Of Service Computation Report
 2000 HCM Operations (Future Volume Alternative)
 Cumulative AM Conditions

Intersection #4: Broadway at 51st/Pleasant Valley



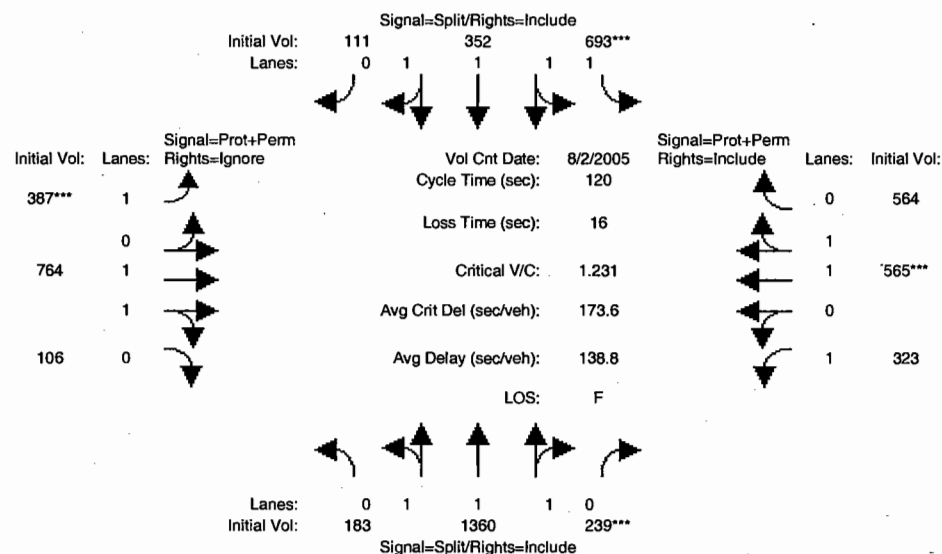
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Volume Module:												
Base Vol:	179	1360	239	691	350	103	387	764	106	232	561	564
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	179	1360	239	691	350	103	387	764	106	232	561	564
Added Vol:	3	0	0	4	4	11	0	0	0	0	3	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	182	1360	239	695	354	114	387	764	106	232	564	564
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.00	0.92	0.92	0.92
PHF Volume:	198	1478	260	755	385	124	421	830	0	252	613	613
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	198	1478	260	755	385	124	421	830	0	252	613	613
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	198	1478	260	755	385	124	421	830	0	252	613	613
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.89	0.89	0.89	0.87	0.87	0.87	0.30	0.95	0.95	0.95	0.88	0.88
Lanes:	0.31	2.29	0.40	2.00	1.51	0.49	1.00	2.00	0.00	1.00	1.00	1.00
Final Sat.:	517	3862	679	3307	2502	806	579	3610	0	1805	1670	1670
Capacity Analysis Module:												
Vol/Sat:	0.38	0.38	0.38	0.23	0.15	0.15	0.73	0.23	0.00	0.14	0.37	0.37
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Green/Cycle:	0.27	0.27	0.27	0.16	0.16	0.16	0.47	0.27	0.00	0.42	0.26	0.26
Volume/Cap:	1.40	1.40	1.40	1.40	0.94	0.94	1.15	0.86	0.00	0.71	1.40	1.40
Delay/Veh:	227.0	227	227.0	235.9	62.7	62.7	115.8	49.8	0.0	33.6	230	230.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	227.0	227	227.0	235.9	62.7	62.7	115.8	49.8	0.0	33.6	230	230.2
LOS by Move:	F	F	F	F	E	E	F	D	A	C	F	F
HCM2kAvgQ:	52	52	52	32	14	14	25	18	0	9	48	48

5175 Broadway

Oakland, California

Level Of Service Computation Report
 2000 HCM Operations (Future Volume Alternative)
 Cumulative PM Conditions

Intersection #4: Broadway at 51st/Pleasant Valley



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Volume Module: >> Count Date: 2 Aug 2005 <<												
Base Vol:	179	1360	239	691	350	103	387	764	106	323	561	564
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	179	1360	239	691	350	103	387	764	106	323	561	564
Added Vol:	4	0	0	2	2	8	0	0	0	0	4	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	183	1360	239	693	352	111	387	764	106	323	565	564
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	183	1360	239	693	352	111	387	764	0	323	565	564
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	183	1360	239	693	352	111	387	764	0	323	565	564
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Final Volume:	183	1360	239	693	352	111	387	764	0	323	565	564
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.89	0.89	0.89	0.87	0.87	0.87	0.42	0.95	0.95	0.95	0.88	0.88
Lanes:	0.31	2.29	0.40	2.00	1.52	0.48	1.00	2.00	0.00	1.00	1.00	1.00
Final Sat.:	519	3860	678	3311	2517	794	802	3610	0	1805	1671	1668
Capacity Analysis Module:												
Vol/Sat:	0.35	0.35	0.35	0.21	0.14	0.14	0.48	0.21	0.00	0.18	0.34	0.34
Crit Moves:	****			****			****			****		
Green/Cycle:	0.27	0.27	0.27	0.16	0.16	0.16	0.40	0.23	0.00	0.46	0.26	0.26
Volume/Cap:	1.29	1.29	1.29	1.29	0.86	0.86	1.06	0.91	0.00	0.77	1.29	1.29
Delay/Veh:	177.7	178	177.7	187.2	54.7	54.7	91.6	58.5	0.0	38.9	181	181.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	177.7	178	177.7	187.2	54.7	54.7	91.6	58.5	0.0	38.9	181	181.4
LOS by Move:	F	F	F	F	D	D	F	E	A	D	F	F
HCM2kAvgQ:	44	44	44	27	12	12	21	18	0	12	40	40