APPENDIX A

PRELIMINARY ASSESSMENT FORM

CITY OF LONG BEACH

DEPARTMENT OF PUBLIC WORKS

333 West Ocean Boulevard, 10th floor • Long Beach, CA 90802 • (562) 570-6331 FAX (562) 570-7161

TRAFFIC & TRANSPORTATION BUREAU

DEVELOPMENT TRAFFIC IMPACT - PRELIMINARY ASSESSMENT

Site address: Studebaker Road at Loynes Drive

Proposed Project & Size: Home Depot – 120,000 s.f.

☑ A traffic report must be prepared for the project, under the supervision and approved (stamped) by a registered Traffic Engineer in the State of California. In addition, any proposed physical street improvements must include a scaled drawing stamped by a registered civil engineer. The report must address the following:

☑ Traffic generation for the proposed development must be estimated for the following time periods:

- ☑ a.m. peak hour
- ☑ p.m. peak hour
- ☑ 24 hour
- ☑ typical weekday
- ☐ peak weekend day
- ☐ other: _____

☑ A trip distribution pattern must be developed and documented, either through consultation with City staff or estimated by the consultant, and approved by City staff prior to use in the study.

☑ Turning movement counts must be collected (or obtained from City records) and traffic congestion impacts analyzed at all signalized intersections through the intersection capacity utilization (ICU) methodology based on the attached "City of Long Beach Guidelines for Signalized Intersection Analysis" at which the project may contribute 50 or more peak hour trips, in addition to the following specific locations:

a) Studebaker Rd. @ SR 22 W/B
b) Studebaker Rd. @ SR 22 E/B
c) Studebaker Rd. @ Loynes Dr.
d) Studebaker Rd. @ 2nd St.
e) PCH @ 7th St.
f) PCH @ Bellflower Blvd.
g) PCH @ Loynes Dr.
h) PCH @ 2nd St.
i) PCH @ Studebaker Rd.
j) Loynes Dr. @ Bixby Village Dr.

during:
- ☑ a.m. peak hour
- ☑ p.m. peak hour

for:
- ☑ typical weekday
- ☐ peak weekend day

☐ The potential for impact to residential neighborhood streets must be evaluated. Specifically, peak hour and 24-hour traffic volumes must be estimated for the following roadway segments:

	Roadway	From	To
a)			
b)			
c)			
d)			
e)			
f)			

☑ Preliminary results must be reviewed with City staff for the determination of locations significantly impacted by project-related traffic. In general, an intersection impact is significant when the resulting level-of-service (LOS) is "E" or "F" and project-related traffic causes a V/C increase of 0.02 or higher to the critical movements. A neighborhood street impact may be significant when the project adds at least 50 peak hour or 500 daily trips. An impact may also be significant where specific traffic safety issues have been identified.

☑ Mitigation measures must be evaluated for any location determined to be significantly impacted. At any location where a modification is proposed to either existing curbs or striping within the public right-of-way, scaled and dimensioned drawings (1"=50' or larger) must be provided. These drawings must include existing and proposed striping, curbs and right-of-way lines, including transitions between proposed and existing locations.

☑ All site access locations must be evaluated to ensure that safe and efficient site access will be provided, with recommendations included for appropriate traffic control devices at the site driveways.

☐ A specific traffic safety analysis must be conducted at the following location, including an evaluation of accident history and physical conditions such as driveways and traffic controls:

a) _____

b) _____

c) _____

☐ Pedestrian circulation must be evaluated and any proposed traffic control devices for pedestrian safety must be identified.

☐ Potential impacts to the location and operation of bus stops must be evaluated, including consultation with Richard Stillwell of Long Beach Transit at (562) 591-8753.

☑ The volume and access routes of trucks to and from the site must be evaluated, with mitigation measures identified if appropriate. Site driveways must be evaluated through the use of turning templates to ensure that trucks will be able to ingress and egress the site safely and efficiently.

☑ A draft of the report must be transmitted to the City Traffic Engineer prior to finalization, providing at least one week for our review and comment. A revised report must then be prepared, addressing comments received, and transmitted to our office.

☑ The consultant should also be prepared to present study findings to the Planning Commission and the City Council, if necessary.

☑ Additional issues may arise through the course of public and interagency review. Addressing such issues will be the responsibility of the applicant.

☑ Other issues:

1. Contact the Planning and Building Department at 570-6651 for information pertaining to related development to be considered in the study.

2. The consultant shall contact Caltrans to determine if any additional study requirements will be required in order to address anticipated traffic impacts created by the proposed development on the State Route 22 at Studebaker Road interchange or at any of the study intersections along Pacific Coast Highway.

3. A CMP analysis of traffic impacts from the proposed development shall be conducted in accordance with the Los Angeles County CMP guidelines.

Please note that additional technical specifications are available for several of the elements outlined above. Consulting engineers should contact Ed Norris, Transportation Engineer, at (562) 570-5209 for further information.

Prepared by Ed Norris Date 9-19-03

Copies to: Roseman
File
Other:

APPENDIX B

EXISTING TRAFFIC VOLUME COUNTS

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Studebaker Rd DATE: 2/4/2004 LOCATION: City of Long Beach

E-W STREET: SR-22 WB Ramps DAY: WEDNESDAY PROJECT# 04-1094-001

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	2	1	1	2	0	0	0	0	2	0	1	
6:00 AM													
6:15 AM													
6:30 AM													
6:45 AM													
7:00 AM		102	3	18	149					117		72	461
7:15 AM		219	6	16	196					109		122	668
7:30 AM		206	10	14	221					147		166	764
7:45 AM		180	11	17	245					134		153	740
8:00 AM		160	14	15	217					178		114	698
8:15 AM		179	6	33	169					185		126	698
8:30 AM		179	9	18	186					170		147	709
8:45 AM		200	9	39	187					166		166	767
9:00 AM													
9:15 AM													
9:30 AM													
9:45 AM													
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM													
11:15 AM													
11:30 AM													
11:45 AM													
TOTAL VOLUMES =	NL 0	NT 1425	NR 68	SL 170	ST 1570	SR 0	EL 0	ET 0	ER 0	WL 1206	WT 0	WR 1066	TOTAL 5505

AM Peak Hr Begins at: 730 AM

PEAK VOLUMES =	0	725	41	79	852	0	0	0	0	644	0	559	2900
PEAK HR. FACTOR:		0.887			0.888			0.000			0.961		0.949

CONTROL: Signalized

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Studebaker Rd DATE: 2/4/2004 LOCATION: City of Long Beach

E-W STREET: SR-22 WB Ramps DAY: WEDNESDAY PROJECT# 04-1094-001

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	2	1	1	2	0	0	0	0	2	0	1	
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
3:00 PM													
3:15 PM													
3:30 PM													
3:45 PM													
4:00 PM		198	8	18	261					253		89	827
4:15 PM		215	10	16	260					242		105	848
4:30 PM		198	16	21	306					274		90	905
4:45 PM		213	18	11	309					291		87	929
5:00 PM		235	13	31	389					266		68	1002
5:15 PM		271	11	18	324					284		77	985
5:30 PM		222	14	13	353					269		88	959
5:45 PM		217	14	15	305					295		71	917
6:00 PM													
6:15 PM													
6:30 PM													
6:45 PM													
TOTAL VOLUMES =	NL 0	NT 1769	NR 104	SL 143	ST 2507	SR 0	EL 0	ET 0	ER 0	WL 2174	WT 0	WR 675	TOTAL 7372

PM Peak Hr Begins at: 445 PM

PEAK VOLUMES =	0	941	56	73	1375	0	0	0	0	1110	0	320	3875
PEAK HR. FACTOR:		0.884			0.862			0.000			0.946		0.967

CONTROL: Signalized

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Studebaker Rd DATE: 2/4/2004 LOCATION: City of Long Beach

E-W STREET: SR-22 EB Ramps DAY: WEDNESDAY PROJECT# 04-1094-002

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	2	1	1	2	0	0	0	0	2	0	1	
6:00 AM													
6:15 AM													
6:30 AM													
6:45 AM													
7:00 AM		110	323	26	253					5		11	728
7:15 AM		214	338	42	267					3		14	878
7:30 AM		190	337	64	303					5		22	921
7:45 AM		182	373	38	350					6		30	979
8:00 AM		124	303	50	343					6		41	867
8:15 AM		146	274	37	312					3		43	815
8:30 AM		135	248	55	300					8		40	786
8:45 AM		169	245	46	318					5		41	824
9:00 AM													
9:15 AM													
9:30 AM													
9:45 AM													
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM													
11:15 AM													
11:30 AM													
11:45 AM													
TOTAL VOLUMES =	0	1270	2441	358	2446	0	0	0	0	41	0	242	6798

AM Peak Hr Begins at: 715 AM

PEAK VOLUMES =	0	710	1351	194	1263	0	0	0	0	20	0	107	3645
PEAK HR. FACTOR:		0.928			0.927			0.000			0.676		0.931

CONTROL: Signalized;

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Studebaker Rd DATE: 2/4/2004 LOCATION: City of Long Beach

E-W STREET: SR-22 EB Ramps DAY: WEDNESDAY PROJECT# 04-1094-002

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	2	1	1	2	0	0	0	0	2	0	1	
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
3:00 PM													
3:15 PM													
3:30 PM													
3:45 PM													
4:00 PM		185	292	70	432					7		18	1004
4:15 PM		190	250	79	444					6		35	1004
4:30 PM		199	277	90	476					2		18	1062
4:45 PM		196	249	95	501					9		31	1081
5:00 PM		200	264	113	527					8		39	1151
5:15 PM		273	278	83	522					11		26	1193
5:30 PM		202	283	85	549					8		16	1143
5:45 PM		206	233	65	520					11		25	1060
6:00 PM													
6:15 PM													
6:30 PM													
6:45 PM													
TOTAL VOLUMES =	0	1651	2126	680	3971	0	0	0	0	62	0	208	8698

PM Peak Hr Begins at: 445 PM

PEAK VOLUMES =	0	871	1074	376	2099	0	0	0	0	36	0	112	4568
PEAK HR. FACTOR:		0.882			0.967			0.000			0.787		0.957

CONTROL: Signalized;

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Studebaker Rd DATE: 2/4/2004 LOCATION: City of Long Beach

E-W STREET: Loynes Dr. DAY: WEDNESDAY PROJECT# 04-1094-003

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	0	0	2	1	2	0	2	0	0	0	
6:00 AM													
6:15 AM													
6:30 AM													
6:45 AM													
7:00 AM	4	432			215	34	49		5				739
7:15 AM	9	496			223	43	76		18				865
7:30 AM	11	450			248	64	55		17				845
7:45 AM	6	451			271	78	66		10				882
8:00 AM	7	319			257	55	70		10				718
8:15 AM	5	336			262	46	76		9				734
8:30 AM	8	342			266	57	54		8				735
8:45 AM	5	365			269	67	52		16				774
9:00 AM													
9:15 AM													
9:30 AM													
9:45 AM													
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM													
11:15 AM													
11:30 AM													
11:45 AM													
TOTAL VOLUMES =	55	3191	0	0	2011	444	498	0	93	0	0	0	6292

AM Peak Hr Begins at: 700 AM

PEAK VOLUMES =	30	1829	0	0	957	219	246	0	50	0	0	0	3331
PEAK HR. FACTOR:		0.920			0.842			0.787			0.000		0.944

CONTROL: Signalized

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Studebaker Rd DATE: 2/4/2004 LOCATION: City of Long Beach

E-W STREET: Loynes Dr. DAY: WEDNESDAY PROJECT# 04-1094-003

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	0	0	2	1	2	0	2	0	0	0	
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
3:00 PM													
3:15 PM													
3:30 PM													
3:45 PM													
4:00 PM	19	398			328	110	64		8				927
4:15 PM	15	393			329	110	49		16				912
4:30 PM	18	397			343	123	58		19				958
4:45 PM	15	399			359	119	68		17				977
5:00 PM	21	420			378	154	59		25				1057
5:15 PM	20	458			407	139	89		21				1134
5:30 PM	29	393			406	150	67		16				1061
5:45 PM	19	374			383	183	57		26				1042
6:00 PM													
6:15 PM													
6:30 PM													
6:45 PM													
TOTAL VOLUMES =	NL 156	NT 3232	NR 0	SL 0	ST 2933	SR 1088	EL 511	ET 0	ER 148	WL 0	WT 0	WR 0	TOTAL 8068

PM Peak Hr Begins at: 500 PM

PEAK VOLUMES =	89	1645	0	0	1574	626	272	0	88	0	0	0	4294
PEAK HR. FACTOR:		0.907			0.972			0.818			0.000		0.947

CONTROL: Signalized

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Bellflower Blvd DATE: 2/3/2004 LOCATION: City of Long Beach

E-W STREET: P.C.H. DAY: TUESDAY PROJECT# 04-1094-004

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	2	3	0	1	3	0	1	3	1	1	3	0	
6:00 AM													
6:15 AM													
6:30 AM													
6:45 AM													
7:00 AM	13	69	4	42	16	1	20	145	4	8	270	91	683
7:15 AM	24	86	4	60	21	0	18	146	3	8	360	90	820
7:30 AM	51	134	0	59	31	0	20	176	5	11	306	117	910
7:45 AM	25	120	7	59	38	0	21	233	7	14	363	106	993
8:00 AM	19	109	4	43	27	0	23	199	5	9	333	111	882
8:15 AM	24	98	8	48	31	0	21	207	3	10	313	89	852
8:30 AM	23	94	7	51	33	0	19	186	4	7	303	98	825
8:45 AM	18	86	5	39	28	0	20	191	4	12	296	93	792
9:00 AM													
9:15 AM													
9:30 AM													
9:45 AM													
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM													
11:15 AM													
11:30 AM													
11:45 AM													
TOTAL VOLUMES =	NL 197	NT 796	NR 39	SL 401	ST 225	SR 1	EL 162	ET 1483	ER 35	WL 79	WT 2544	WR 795	TOTAL 6757

AM Peak Hr Begins at: 730 AM

PEAK VOLUMES =	119	461	19	209	127	0	85	815	20	44	1315	423	3637
PEAK HR. FACTOR:		0.809			0.866			0.881			0.922		0.916

CONTROL: Signalized;

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Bellflower Blvd DATE: 2/3/2004 LOCATION: City of Long Beach

E-W STREET: P.C.H. DAY: TUESDAY PROJECT# 04-1094-004

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	2	3	0	1	3	0	1	3	1	1	3	0	
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
3:00 PM													
3:15 PM													
3:30 PM													
3:45 PM													
4:00 PM	12	80	3	118	71	2	19	269	18	38	201	84	915
4:15 PM	10	71	4	112	78	4	24	278	22	36	214	92	945
4:30 PM	11	72	3	116	81	3	25	271	13	42	197	87	921
4:45 PM	11	81	6	129	76	1	21	286	21	27	251	82	992
5:00 PM	12	74	6	134	92	2	30	315	24	32	243	104	1068
5:15 PM	10	83	6	102	93	2	23	311	12	32	228	98	1000
5:30 PM	12	76	4	109	90	1	24	265	18	43	247	98	987
5:45 PM	11	81	5	101	94	2	22	251	16	38	223	101	945
6:00 PM													
6:15 PM													
6:30 PM													
6:45 PM													
TOTAL VOLUMES =	NL 89	NT 618	NR 37	SL 921	ST 675	SR 17	EL 188	ET 2246	ER 144	WL 288	WT 1804	WR 746	TOTAL 7773

PM Peak Hr Begins at: 445 PM

PEAK VOLUMES =	45	314	22	474	351	6	98	1177	75	134	969	382	4047
PEAK HR. FACTOR:		0.962			0.911			0.915			0.957		0.947

CONTROL: Signalized;

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Studebaker Rd DATE: 2/3/2004 LOCATION: City of Long Beach

E-W STREET: P.C.H. DAY: TUESDAY PROJECT# 04-1094-005

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	3	0	1	3	0	0	1	0	2	1	1	
6:00 AM													
6:15 AM													
6:30 AM													
6:45 AM													
7:00 AM	12	597	4	1	286	4	14	0	67	0	0	0	985
7:15 AM	19	625	1	3	338	9	20	2	62	3	0	0	1082
7:30 AM	17	513	2	0	337	15	13	1	76	1	1	0	976
7:45 AM	18	560	7	2	345	26	14	3	77	1	1	1	1055
8:00 AM	22	518	7	3	332	15	11	5	78	1	0	0	992
8:15 AM	23	494	3	4	234	11	11	2	50	1	0	0	833
8:30 AM	11	485	6	2	374	21	10	2	70	1	2	2	986
8:45 AM	13	480	6	20	250	22	17	0	44	3	2	1	778
9:00 AM													
9:15 AM													
9:30 AM													
9:45 AM													
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM													
11:15 AM													
11:30 AM													
11:45 AM													
TOTAL VOLUMES =	NL 135	NT 4192	NR 36	SL 35	ST 2496	SR 123	EL 110	ET 15	ER 524	WL 11	WT 6	WR 4	TOTAL 7687

AM Peak Hr Begins at: 715 AM

PEAK VOLUMES =	76	2216	17	8	1352	65	58	11	293	6	2	1	4105
PEAK HR. FACTOR:		0.895			0.955			0.963			0.750		0.948

CONTROL: Signalized;

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Studebaker Rd DATE: 2/3/2004 LOCATION: City of Long Beach

E-W STREET: P.C.H. DAY: TUESDAY PROJECT# 04-1094-005

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	3	0	1	3	0	0	1	0	2	1	1	
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
3:00 PM													
3:15 PM													
3:30 PM													
3:45 PM													
4:00 PM	23	302	10	3	378	23	53	6	61	9	9	1	878
4:15 PM	25	289	7	7	402	18	41	4	77	16	9	2	897
4:30 PM	31	359	6	6	401	17	54	2	84	12	8	3	983
4:45 PM	41	389	2	5	440	13	45	5	101	13	7	2	1063
5:00 PM	21	330	4	4	429	30	37	4	103	20	13	13	1008
5:15 PM	40	428	7	6	539	14	58	3	83	20	7	3	1208
5:30 PM	45	323	5	4	484	9	54	1	90	18	5	0	1038
5:45 PM	25	289	2	2	298	11	17	2	45	2	8	1	702
6:00 PM													
6:15 PM													
6:30 PM													
6:45 PM													
TOTAL VOLUMES =	NL 251	NT 2709	NR 43	SL 37	ST 3371	SR 135	EL 359	ET 27	ER 644	WL 110	WT 66	WR 25	TOTAL 7777

PM Peak Hr Begins at: 445 PM

PEAK VOLUMES =	147	1470	18	19	1892	66	194	13	377	71	32	18	4317
PEAK HR. FACTOR:		0.861			0.884			0.967			0.658		0.893

CONTROL: Signalized;

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Bixby Rd DATE: 2/4/2004 LOCATION: City of Long Beach

E-W STREET: Loynes Dr. DAY: WEDNESDAY PROJECT# 04-1094-006

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	1	0	0.5	0.5	1	1	2	0	1	2	0	
6:00 AM													
6:15 AM													
6:30 AM													
6:45 AM													
7:00 AM	9	3	3	0	0	5	4	56	4	0	31	4	119
7:15 AM	6	1	7	2	1	12	3	74	4	2	40	6	158
7:30 AM	9	2	4	5	1	16	7	99	1	2	62	7	215
7:45 AM	7	1	6	3	1	8	3	75	3	2	58	6	173
8:00 AM	5	2	8	6	0	8	8	66	3	2	64	7	179
8:15 AM	5	3	5	7	3	13	8	58	5	0	62	4	173
8:30 AM	13	1	2	5	2	9	2	48	5	2	56	4	149
8:45 AM	4	3	10	4	1	9	11	44	7	4	61	12	170
9:00 AM													
9:15 AM													
9:30 AM													
9:45 AM													
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM													
11:15 AM													
11:30 AM													
11:45 AM													
TOTAL VOLUMES =	NL 58	NT 16	NR 45	SL 32	ST 9	SR 80	EL 46	ET 520	ER 32	WL 14	WT 434	WR 50	TOTAL 1336

AM Peak Hr Begins at: 730 AM

PEAK VOLUMES =	26	8	23	21	5	45	26	298	12	6	246	24	740
PEAK HR. FACTOR:		0.950			0.772			0.785			0.945		0.860

CONTROL: Signalized;

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Bixby Rd DATE: 2/4/2004 LOCATION: City of Long Beach

E-W STREET: Loynes Dr. DAY: WEDNESDAY PROJECT# 04-1094-006

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	1	0	0.5	0.5	1	1	2	0	1	2	0	
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
3:00 PM													
3:15 PM													
3:30 PM													
3:45 PM													
4:00 PM	6	1	8	6	2	10	14	56	8	8	123	7	249
4:15 PM	3	2	5	2	3	10	10	44	8	6	101	9	203
4:30 PM	3	1	3	9	3	17	15	56	3	6	125	10	251
4:45 PM	6	3	1	7	1	23	15	79	11	4	125	11	286
5:00 PM	3	1	6	10	5	10	26	64	5	13	144	8	295
5:15 PM	5	3	4	8	4	16	18	87	5	10	153	10	323
5:30 PM	7	5	3	5	5	15	10	81	8	6	146	18	309
5:45 PM	6	3	8	6	7	6	11	71	9	5	173	14	319
6:00 PM													
6:15 PM													
6:30 PM													
6:45 PM													
TOTAL VOLUMES =	NL 39	NT 19	NR 38	SL 53	ST 30	SR 107	EL 119	ET 538	ER 57	WL 58	WT 1090	WR 87	TOTAL 2235

PM Peak Hr Begins at: 500 PM

PEAK VOLUMES =	21	12	21	29	21	47	65	303	27	34	616	50	1246
PEAK HR. FACTOR:		0.794			0.866			0.898			0.911		0.964

CONTROL: Signalized;

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Studebaker Rd DATE: 10/15/2003 LOCATION: City of Long Beach

E-W STREET: 2nd st DAY: WEDNESDAY PROJECT# 03-1476a-001

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:				2	0	2	2	2	0	0	2	2	
6:00 AM													
6:15 AM													
6:30 AM													
6:45 AM													
7:00 AM				63		97	326	92			164	108	850
7:15 AM				72		102	399	122			124	104	923
7:30 AM				59		134	298	136			159	80	866
7:45 AM				69		193	330	133			168	100	993
8:00 AM													
8:15 AM													
8:30 AM													
8:45 AM													
9:00 AM													
9:15 AM													
9:30 AM													
9:45 AM													
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM													
11:15 AM													
11:30 AM													
11:45 AM													
TOTAL VOLUMES =	0	0	0	263	0	526	1353	483	0	0	615	392	3632

AM Peak Hr Begins at: 700 AM

PEAK VOLUMES =	0	0	0	263	0	526	1353	483	0	0	615	392	3632
PEAK HR. FACTOR:		0.000			0.753			0.881			0.926		0.914

CONTROL: Signalized

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Studebaker Rd | DATE: 10/15/2003 | LOCATION: City of Long Beach

E-W STREET: 2nd st | DAY: WEDNESDAY | PROJECT# 03-1476a-001

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:				2	0	2	2	2	0	0	2	2	
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
3:00 PM													
3:15 PM													
3:30 PM													
3:45 PM													
4:00 PM				85		145	265	125			152	105	877
4:15 PM				91		211	290	123			161	119	995
4:30 PM				87		248	294	149			179	104	1061
4:45 PM				67		243	323	100			181	92	1006
5:00 PM				85		250	295	96			149	118	993
5:15 PM				91		223	235	141			179	116	985
5:30 PM				82		210	229	120			165	89	895
5:45 PM				65		182	210	105			156	76	794
6:00 PM													
6:15 PM													
6:30 PM													
6:45 PM													
TOTAL VOLUMES =	NL 0	NT 0	NR 0	SL 653	ST 0	SR 1712	EL 2141	ET 959	ER 0	WL 0	WT 1322	WR 819	TOTAL 7606

PM Peak Hr Begins at: 415 PM

PEAK VOLUMES =	0	0	0	330	0	952	1202	468	0	0	670	433	4055
PEAK HR. FACTOR:		0.000			0.957			0.942			0.974		0.955

CONTROL: Signalized

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: PCH DATE: 6/24/2003 LOCATION: City of Long Beach

E-W STREET: Westminster Ave. DAY: TUESDAY PROJECT# 03-1036-002

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
6:00 AM													
6:15 AM													
6:30 AM													
6:45 AM													
7:00 AM	114	317	100	33	181	35	41	292	86	81	137	42	1459
7:15 AM	110	297	98	40	171	48	36	286	88	57	130	37	1398
7:30 AM	135	270	102	22	153	52	45	262	62	52	129	49	1333
7:45 AM	138	266	106	19	163	44	61	277	63	61	153	40	1391
8:00 AM	121	261	93	23	169	52	58	293	68	68	167	34	1407
8:15 AM	96	264	72	28	152	73	54	285	72	57	188	30	1371
8:30 AM	88	233	80	26	129	82	60	277	65	41	206	28	1315
8:45 AM	79	134	86	22	124	76	64	259	54	38	185	25	1146
9:00 AM													
9:15 AM													
9:30 AM													
9:45 AM													
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM													
11:15 AM													
11:30 AM													
11:45 AM													
TOTAL VOLUMES =	NL 881	NT 2042	NR 737	SL 213	ST 1242	SR 462	EL 419	ET 2231	ER 558	WL 455	WT 1295	WR 285	TOTAL 10820

AM Peak Hr Begins at: 700 AM

PEAK VOLUMES =	497	1150	406	114	668	179	183	1117	299	251	549	168	5581
PEAK HR. FACTOR:		0.967			0.928			0.954			0.931		0.956

CONTROL: Signalized;

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: PCH DATE: 6/24/2003 LOCATION: City of Long Beach

E-W STREET: Westminster Ave. DAY: TUESDAY PROJECT# 03-1036-002

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
3:00 PM													
3:15 PM													
3:30 PM													
3:45 PM													
4:00 PM	88	225	82	49	269	142	139	299	100	63	162	62	1680
4:15 PM	94	217	76	66	284	155	128	325	95	79	171	64	1754
4:30 PM	83	206	80	54	321	142	125	351	102	85	198	55	1802
4:45 PM	78	241	93	60	342	123	119	326	93	99	216	64	1854
5:00 PM	86	267	101	59	333	108	117	307	107	83	231	74	1873
5:15 PM	83	256	95	56	322	116	122	331	112	74	243	65	1875
5:30 PM	91	260	72	47	331	135	138	347	126	65	230	68	1910
5:45 PM	82	203	84	27	342	140	121	329	117	78	243	71	1837
6:00 PM													
6:15 PM													
6:30 PM													
6:45 PM													
TOTAL VOLUMES =	NL 685	NT 1875	NR 683	SL 418	ST 2544	SR 1061	EL 1009	ET 2615	ER 852	WL 626	WT 1694	WR 523	TOTAL 14585

PM Peak Hr Begins at: 445 PM

PEAK VOLUMES =	338	1024	361	222	1328	482	496	1311	438	321	920	271	7512
PEAK HR. FACTOR:		0.949			0.968			0.919			0.974		0.983

CONTROL: Signalized;

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: PCH DATE: 6/19/2003 LOCATION: City of Long Beach

E-W STREET: 7th St. DAY: THURSDAY PROJECT# 03-1027-001

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	3	0	2	3	0	1	3	0		2	1	
6:00 AM													
6:15 AM													
6:30 AM													
6:45 AM													
7:00 AM	25	287	1	95	123			460	33		420	107	1551
7:15 AM	27	294	1	101	101			498	26		438	115	1601
7:30 AM	30	317	1	113	166			494	43		448	158	1770
7:45 AM	22	306	0	106	175			512	41		468	154	1784
8:00 AM	32	331	0	110	169			502	37		451	131	1763
8:15 AM	41	323	1	86	178			514	31		478	142	1794
8:30 AM	37	315	1	101	163			507	41		449	127	1741
8:45 AM	29	298	0	85	133			499	37		455	119	1655
9:00 AM													
9:15 AM													
9:30 AM													
9:45 AM													
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM													
11:15 AM													
11:30 AM													
11:45 AM													
TOTAL VOLUMES =	NL 243	NT 2471	NR 5	SL 797	ST 1208	SR 0	EL 0	ET 3986	ER 289	WL 0	WT 3607	WR 1053	TOTAL 13659

AM Peak Hr Begins at: 730 AM

PEAK VOLUMES =	125	1277	2	415	688	0	0	2022	152	0	1845	585	7111
PEAK HR. FACTOR:		0.962			0.981			0.983			0.977		0.991

CONTROL: Signalized;

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: PCH DATE: 6/19/2003 LOCATION: City of Long Beach

E-W STREET: 7th St. DAY: THURSDAY PROJECT# 03-1027-001

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	3	0	2	3	0	1	3	0		2	1	
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
3:00 PM													
3:15 PM													
3:30 PM													
3:45 PM													
4:00 PM	44	182		145	297			395	50		353	109	1575
4:15 PM	57	192		157	298			428	36		444	131	1743
4:30 PM	55	206		166	309			442	49		458	111	1796
4:45 PM	54	219		177	327			497	51		499	114	1938
5:00 PM	41	221		163	312			519	55		507	97	1915
5:15 PM	50	217		167	296			521	49		525	106	1931
5:30 PM	48	223		155	287			526	52		541	116	1948
5:45 PM	54	232		167	296			531	56		546	119	2001
6:00 PM													
6:15 PM													
6:30 PM													
6:45 PM													
TOTAL VOLUMES =	NL 403	NT 1692	NR 0	SL 1297	ST 2422	SR 0	EL 0	ET 3859	ER 398	WL 0	WT 3873	WR 903	TOTAL 14847

PM Peak Hr Begins at: 500 PM

PEAK VOLUMES =	193	893	0	652	1191	0	0	2097	212	0	2119	438	7795
PEAK HR. FACTOR:		0.949			0.970			0.983			0.961		0.974

CONTROL: Signalized;

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: PCH DATE: 10/22/2003 LOCATION: City of Long Beach

E-W STREET: Loynes Dr. DAY: WEDNESDAY PROJECT# 03-1572-001

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	1.5	.5	1	2	1	1	2.5	.5	1	2.5	.5	
6:00 AM													
6:15 AM													
6:30 AM													
6:45 AM													
7:00 AM	4	51	25	17	23	13	7	189	6	7	387	29	758
7:15 AM	8	51	35	17	28	20	10	207	6	12	509	21	924
7:30 AM	6	50	30	20	30	18	10	209	5	10	466	21	875
7:45 AM	7	44	27	27	33	16	6	211	4	13	409	20	817
8:00 AM	7	32	20	29	39	16	8	200	4	13	386	22	776
8:15 AM	4	36	20	29	32	14	7	209	3	15	398	22	789
8:30 AM	4	30	16	26	26	11	6	206	3	11	390	18	747
8:45 AM	6	28	18	20	22	10	5	191	2	10	361	19	692
9:00 AM													
9:15 AM													
9:30 AM													
9:45 AM													
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM													
11:15 AM													
11:30 AM													
11:45 AM													
TOTAL VOLUMES =	NL 46	NT 322	NR 191	SL 185	ST 233	SR 118	EL 59	ET 1622	ER 33	WL 91	WT 3306	WR 172	TOTAL 6378

AM Peak Hr Begins at: 715 AM

PEAK VOLUMES =	28	177	112	93	130	70	34	827	19	48	1770	84	3392
PEAK HR. FACTOR:		0.843			0.872			0.982			0.877		0.918

CONTROL: Signalized

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: PCH DATE: 10/22/2003 LOCATION: City of Long Beach

E-W STREET: Loynes Dr. DAY: WEDNESDAY PROJECT# 03-1572-001

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	1.5	.5	1	2	1	1	2.5	.5	1	2.5	.5	
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
3:00 PM													
3:15 PM													
3:30 PM													
3:45 PM													
4:00 PM	6	27	18	31	40	15	6	381	6	27	306	29	892
4:15 PM	7	20	20	30	45	17	10	406	9	30	318	33	945
4:30 PM	8	25	23	34	47	19	10	439	10	34	338	39	1026
4:45 PM	9	43	24	47	54	10	7	415	6	38	273	24	950
5:00 PM	10	34	22	44	103	10	19	394	12	34	309	31	1022
5:15 PM	7	67	30	49	85	16	11	460	9	50	309	36	1129
5:30 PM	5	59	27	45	80	15	10	421	5	41	386	31	1125
5:45 PM	5	42	24	38	31	14	9	416	4	29	296	30	938
6:00 PM													
6:15 PM													
6:30 PM													
6:45 PM													
TOTAL VOLUMES =	NL 57	NT 317	NR 188	SL 318	ST 485	SR 116	EL 82	ET 3332	ER 61	WL 283	WT 2535	WR 253	TOTAL 8027

PM Peak Hr Begins at: 445 PM

PEAK VOLUMES =	31	203	103	185	322	51	47	1690	32	163	1277	122	4226
PEAK HR. FACTOR:		0.810			0.889			0.921			0.853		0.936

CONTROL: Signalized

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Studebaker Rd DATE: 4/14/2004 LOCATION: City of Long Beach

E-W STREET: AES Dwy DAY: WEDNESDAY PROJECT# 04-1262-001

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:		2	0	1	2					0		0	
6:00 AM													
6:15 AM													
6:30 AM													
6:45 AM													
7:00 AM		354	4	11	229					2		1	601
7:15 AM		389	2	2	239					1		2	635
7:30 AM		359	0	10	227					0		0	596
7:45 AM		415	0	6	306					3		1	731
8:00 AM		391	2	3	306					0		0	702
8:15 AM		368	0	1	296					1		1	667
8:30 AM		359	0	2	294					1		0	656
8:45 AM		364	0	1	298					0		1	664
9:00 AM													
9:15 AM													
9:30 AM													
9:45 AM													
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM													
11:15 AM													
11:30 AM													
11:45 AM													
TOTAL VOLUMES =	NL 0	NT 2999	NR 8	SL 36	ST 2195	SR 0	EL 0	ET 0	ER 0	WL 8	WT 0	WR 6	TOTAL 5252

AM Peak Hr Begins at: 745 AM

PEAK VOLUMES =	0	1533	2	12	1202	0	0	0	0	5	0	2	2756
PEAK HR. FACTOR:		0.925			0.973			0.000			0.438		0.943

CONTROL: Signalized;

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Studebaker Rd DATE: 4/14/2004 LOCATION: City of Long Beach

E-W STREET: AES Dwy DAY: WEDNESDAY PROJECT# 04-1262-001

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:		2	0	1	2					0		0	
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
3:00 PM													
3:15 PM													
3:30 PM													
3:45 PM													
4:00 PM		474	0	2	437					1		5	919
4:15 PM		435	0	1	439					1		5	881
4:30 PM		440	1	3	467					2		1	914
4:45 PM		464	4	4	429					2		2	905
5:00 PM		484	3	0	464					1		2	954
5:15 PM		503	4	0	527					7		2	1043
5:30 PM		486	1	0	473					1		1	962
5:45 PM		463	1	1	466					1		2	934
6:00 PM													
6:15 PM													
6:30 PM													
6:45 PM													
TOTAL VOLUMES =	0	3749	14	11	3702	0	0	0	0	16	0	20	7512

PM Peak Hr Begins at: 500 PM

PEAK VOLUMES =	0	1936	9	1	1930	0	0	0	0	10	0	7	3893
PEAK HR. FACTOR:		0.959			0.916			0.000			0.472		0.933

CONTROL: Signalized;

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Studebaker Rd DATE: 7/10/2004 LOCATION: City of Long Beach

E-W STREET: SR-22 WB Ramps DAY: SATURDAY PROJECT# 04-1434-001

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	2	1	1	2	0	0	0	0	2	0	0	
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM		99	13	18	141					205	1	1	478
11:15 AM		115	13	11	155					203	0	0	497
11:30 AM		124	8	14	157					195	0	1	499
11:45 AM		110	10	14	167					238	0	0	539
12:00 PM		102	6	17	168					226	0	0	519
12:15 PM		120	10	12	170					192	0	0	504
12:30 PM		101	6	13	200					243	0	0	563
12:45 PM		142	15	14	168					225	0	1	565
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
TOTAL VOLUMES =	0	913	81	113	1326	0	0	0	0	1727	1	3	4164

NOON Peak Hr Begins at: 1200 PM

PEAK VOLUMES =	0	465	37	56	706	0	0	0	0	886	0	1	2151
PEAK HR. FACTOR:		0.799			0.894			0.000			0.913		0.952

CONTROL: signalized

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Studebaker Rd DATE: 7/10/2004 LOCATION: City of Long Beach

E-W STREET: SR-22 EB Ramps DAY: SATURDAY PROJECT# 04-1434-002

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	2	1	1	2	0	0	0	0	0	1	0	
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM		119	268	45	365					4		11	812
11:15 AM		121	280	33	334					3		10	781
11:30 AM		108	265	29	343					2		9	756
11:45 AM		118	231	41	379					4		12	785
12:00 PM		124	255	38	373					1		4	795
12:15 PM		111	270	22	346					3		8	760
12:30 PM		106	244	34	402					2		2	790
12:45 PM		121	275	39	339					2		6	782
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
TOTAL VOLUMES =	NL 0	NT 928	NR 2088	SL 281	ST 2881	SR 0	EL 0	ET 0	ER 0	WL 21	WT 0	WR 62	TOTAL 6261

NOON Peak Hr Begins at: 1100 AM

PEAK VOLUMES =	0	466	1044	148	1421	0	0	0	0	13	0	42	3134
PEAK HR. FACTOR:		0.941			0.934			0.000			0.859		0.965

CONTROL: Signalized;

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Studebaker Rd DATE: 7/10/2004 LOCATION: City of Long Beach

E-W STREET: AES Plant Dwy DAY: SATURDAY PROJECT# 04-1434-003

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:		2			2						1		
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM		354	0	1	349					0		0	704
11:15 AM		385	0	0	323					0		0	708
11:30 AM		368	0	0	323					0		1	692
11:45 AM		372	0	0	388					0		0	760
12:00 PM		369	0	0	375					0		0	744
12:15 PM		370	0	0	355					0		0	725
12:30 PM		398	0	1	407					0		0	806
12:45 PM		394	0	0	388					0		0	782
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
TOTAL VOLUMES =	0	3010	0	2	2908	0	0	0	0	0	0	1	5921

NOON Peak Hr Begins at: 1200 PM

PEAK VOLUMES =	0	1531	0	1	1525	0	0	0	0	0	0	0	3057
PEAK HR. FACTOR:		0.962			0.935			0.000			0.000		0.948

CONTROL: Signalized

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Studebaker Rd DATE: 7/10/2004 LOCATION: City of Long Beach

E-W STREET: Loynes Dr. DAY: SATURDAY PROJECT# 04-1434-004

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM	11	325			282	75	43		38				774
11:15 AM	7	339			269	57	43		17				732
11:30 AM	3	319			265	63	46		23				719
11:45 AM	10	321			332	54	41		26				784
12:00 PM	8	327			330	43	43		19				770
12:15 PM	7	330			306	59	47		21				770
12:30 PM	9	336			339	64	36		32				816
12:45 PM	6	343			319	58	54		27				807
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
TOTAL VOLUMES =	NL 61	NT 2640	NR 0	SL 0	ST 2442	SR 473	EL 353	ET 0	ER 203	WL 0	WT 0	WR 0	TOTAL 6172

NOON Peak Hr Begins at: 1200 PM

PEAK VOLUMES =	30	1336	0	0	1294	224	180	0	99	0	0	0	3163
PEAK HR. FACTOR:		0.979			0.942			0.861			0.000		0.969

CONTROL: Signalized;

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Studebaker Rd DATE: 7/17/2004 LOCATION: City of Long Beach

E-W STREET: 2nd st DAY: SATURDAY PROJECT# 04-1434-005

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:				1		2	2	2			2	1	
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM				80		265	360	75			121	59	960
11:15 AM				82		262	347	74			101	50	916
11:30 AM				79		259	327	76			98	49	888
11:45 AM				82		268	309	77			100	46	882
12:00 PM				76		258	265	74			94	46	813
12:15 PM				70		209	306	109			120	48	862
12:30 PM				54		247	311	103			130	50	895
12:45 PM				96		261	310	117			171	59	1014
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
TOTAL VOLUMES =	NL 0	NT 0	NR 0	SL 619	ST 0	SR 2029	EL 2535	ET 705	ER 0	WL 0	WT 935	WR 407	TOTAL 7230

NOON Peak Hr Begins at: 1100 AM

PEAK VOLUMES =	0	0	0	323	0	1054	1343	302	0	0	420	204	3646
PEAK HR. FACTOR:		0.000			0.984			0.000			0.867		0.949

CONTROL: Signalized

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: PCH DATE: 7/17/2004 LOCATION: City of Long Beach

E-W STREET: 7th St. DAY: SATURDAY PROJECT# 04-1434-006

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	3	0	2	3	0	1	3	0		2	1	
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM	27	151	6	130	216	0		306	29		222	79	1166
11:15 AM	33	143	2	151	226	0		316	34		241	84	1230
11:30 AM	43	166	4	164	230	0		346	41		269	89	1352
11:45 AM	37	186	2	140	238	0		359	44		294	96	1396
12:00 PM	40	201	4	112	237	2		354	48		303	104	1405
12:15 PM	44	194	3	109	231	3		378	54		312	119	1447
12:30 PM	50	182	14	121	220	2		399	45		270	112	1415
12:45 PM	39	205	7	111	212	0		365	28		251	103	1321
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
TOTAL VOLUMES =	NL 313	NT 1428	NR 42	SL 1038	ST 1810	SR 7	EL 0	ET 2823	ER 323	WL 0	WT 2162	WR 786	TOTAL 10732

NOON Peak Hr Begins at: 1145 AM

PEAK VOLUMES =	171	763	23	482	926	7	0	1490	191	0	1179	431	5663
PEAK HR. FACTOR:		0.973			0.936			0.947			0.934		0.978

CONTROL: Signalized;

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: PCH DATE: 7/17/2004 LOCATION: City of Long Beach

E-W STREET: Bellflower Blvd DAY: SATURDAY PROJECT# 04-1434-007

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	1	1	1.5	0.5	1.5	1.5	1	1	2	1	
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM	11	160	66	9	233	7	8	36	12	94	44	3	683
11:15 AM	16	162	74	6	249	9	8	49	14	104	49	6	746
11:30 AM	27	185	76	13	262	13	12	50	18	112	51	2	821
11:45 AM	12	237	86	11	295	11	12	67	16	137	70	6	960
12:00 PM	20	229	101	10	265	10	14	46	14	129	64	7	909
12:15 PM	26	218	91	15	244	10	16	45	10	126	72	4	877
12:30 PM	18	214	96	10	224	6	13	52	6	120	68	4	831
12:45 PM	24	209	100	16	219	9	17	71	8	121	62	3	859
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
TOTAL VOLUMES =	154	1614	690	90	1991	75	100	416	98	943	480	35	6686

NOON Peak Hr Begins at: 1145 AM

PEAK VOLUMES =	76	898	374	46	1028	37	55	210	46	512	274	21	3577
PEAK HR. FACTOR:		0.963			0.876			0.818			0.947		0.932

CONTROL: Signalized

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: PCH DATE: 7/17/2004 LOCATION: City of Long Beach

E-W STREET: Loynes Dr. DAY: SATURDAY PROJECT# 04-1434-008

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2.5	0.5	1	2.5	0.5	1	1.5	0.5	1	1.5	0.5	
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM	31	192	36	2	349	2	10	20	26	51	22	11	752
11:15 AM	44	214	41	2	372	3	17	24	32	66	24	8	847
11:30 AM	31	224	32	5	346	6	4	30	30	55	27	4	794
11:45 AM	38	159	37	11	426	0	6	36	35	57	53	4	862
12:00 PM	29	226	30	9	370	3	7	34	30	49	36	8	831
12:15 PM	25	250	24	7	329	4	6	28	32	47	28	7	787
12:30 PM	22	242	19	5	318	3	5	22	26	38	27	5	732
12:45 PM	16	232	22	5	278	4	8	20	21	27	22	4	659
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
TOTAL VOLUMES =	NL 236	NT 1739	NR 241	SL 46	ST 2788	SR 25	EL 63	ET 214	ER 232	WL 390	WT 239	WR 51	TOTAL 6264

NOON Peak Hr Begins at: 1115 AM

PEAK VOLUMES =	142	823	140	27	1514	12	34	124	127	227	140	24	3334
PEAK HR. FACTOR:		0.924			0.888			0.925			0.857		0.967

CONTROL: Signalized

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: PCH DATE: 7/10/2004 LOCATION: City of Long Beach

E-W STREET: 2nd st DAY: SATURDAY PROJECT# 04-1434-009

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	2	3	0	1	3	0	2	2.5	1.5	2	3	1	
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM	88	196	63	58	239	67	117	272	82	70	237	45	1534
11:15 AM	89	238	57	57	262	55	203	330	84	121	295	55	1846
11:30 AM	85	236	33	70	247	52	86	259	74	76	199	42	1459
11:45 AM	91	316	20	56	232	53	106	274	74	102	228	49	1601
12:00 PM	114	311	39	51	252	64	111	117	88	89	210	57	1503
12:15 PM	64	266	38	43	269	78	125	256	85	101	220	48	1593
12:30 PM	94	295	61	64	288	84	115	210	88	85	188	58	1630
12:45 PM	94	251	59	49	266	57	120	247	91	91	274	60	1659
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
TOTAL VOLUMES =	719	2109	370	448	2055	510	983	1965	666	735	1851	414	12825

NOON Peak Hr Begins at: 1100 AM

PEAK VOLUMES =	353	986	173	241	980	227	512	1135	314	369	959	191	6440
PEAK HR. FACTOR:		0.885			0.968			0.795			0.806		0.872

CONTROL: Signalized

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: PCH DATE: 7/10/2004 LOCATION: City of Long Beach

E-W STREET: Studebaker Rd DAY: SATURDAY PROJECT# 04-1434-010

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	3	1	1	2	1	1	1	1	0	1	0	
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM	26	328	13	5	343	31	32	5	41	8	6	1	839
11:15 AM	35	381	9	5	343	45	34	4	42	8	4	2	912
11:30 AM	38	325	7	4	328	40	35	5	58	2	3	2	847
11:45 AM	22	354	4	9	378	45	47	5	43	9	6	3	925
12:00 PM	40	409	7	8	457	50	29	4	40	23	11	6	1084
12:15 PM	39	330	13	4	332	42	30	4	42	8	8	1	853
12:30 PM	32	400	3	9	477	42	65	9	55	14	13	6	1125
12:45 PM	19	381	6	8	468	31	61	4	51	15	8	1	1053
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
TOTAL VOLUMES =	NL 251	NT 2908	NR 62	SL 52	ST 3126	SR 326	EL 333	ET 40	ER 372	WL 87	WT 59	WR 22	TOTAL 7638

NOON Peak Hr Begins at: 1200 PM

PEAK VOLUMES =	130	1520	29	29	1734	165	185	21	188	60	40	14	4115
PEAK HR. FACTOR:		0.921			0.913			0.764			0.713		0.914

CONTROL: Signalized

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Loynes Dr DATE: 7/17/2004 LOCATION: City of Long Beach

E-W STREET: Bixby Village Dr DAY: SATURDAY PROJECT# 04-1434-011

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	1	0	0.5	0.5	1	1	2	0	1	2	0	
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM	8	6	10	6	5	18	10	46	4	4	65	13	195
11:15 AM	6	8	6	6	7	12	15	47	4	6	66	9	192
11:30 AM	8	7	1	11	15	16	8	41	5	8	53	3	176
11:45 AM	2	4	9	8	6	24	11	66	5	7	57	8	207
12:00 PM	6	0	1	9	5	8	7	42	8	2	64	6	158
12:15 PM	10	3	4	11	3	21	11	69	2	2	71	13	220
12:30 PM	8	1	4	3	1	15	6	57	12	6	67	8	188
12:45 PM	4	5	5	4	1	13	10	78	8	4	79	8	219
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
TOTAL VOLUMES =	NL 52	NT 34	NR 40	SL 58	ST 43	SR 127	EL 78	ET 446	ER 48	WL 39	WT 522	WR 68	TOTAL 1555

NOON Peak Hr Begins at: 1200 PM

PEAK VOLUMES =	28	9	14	27	10	57	34	246	30	14	281	35	785
PEAK HR. FACTOR:		0.750			0.671			0.807			0.907		0.892

CONTROL: Signalized

APPENDIX C

EXISTING LEVEL OF SERVICE WORKSHEETS

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #1 Studebaker Rd/SR-22 WB Ramps

Cycle (sec): 100 Critical Vol./Cap. (X): 0.650
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 54 Level Of Service: B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	725	41	79	852	0	0	0	0	644	0	559
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:	0	725	41	79	852	0	0	0	0	644	0	559
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	725	0	79	852	0	0	0	0	644	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	725	0	79	852	0	0	0	0	644	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	725	0	79	852	0	0	0	0	644	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	2880	0	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.23	0.00	0.05	0.27	0.00	0.00	0.00	0.00	0.22	0.00	0.00
Crit Moves:		****		****						****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #1 Studebaker Rd/SR-22 WB Ramps

Cycle (sec): 100 Critical Vol./Cap. (X): 0.965
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 146 Level Of Service: E

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	941	56	73	1375	0	0	0	0	1110	0	320
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:	0	941	56	73	1375	0	0	0	0	1110	0	320
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	941	0	73	1375	0	0	0	0	1110	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	941	0	73	1375	0	0	0	0	1110	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	941	0	73	1375	0	0	0	0	1110	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	2880	0	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.29	0.00	0.05	0.43	0.00	0.00	0.00	0.00	0.39	0.00	0.00
Crit Moves:	****				****					****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #2 Studebaker Rd/SR-22 EB Ramps

Cycle (sec): 100 Critical Vol./Cap. (X): 0.552
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 45 Level Of Service: A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0 2	0	1	1 0 2	0	0	0 0 0	0	0	2 0 0	0	1
Volume Module:												
Base Vol:	0	710	1351	194	1263	0	0	0	0	20	0	107
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:	0	710	1351	194	1263	0	0	0	0	20	0	107
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	710	0	194	1263	0	0	0	0	20	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	710	0	194	1263	0	0	0	0	20	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	710	0	194	1263	0	0	0	0	20	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	2880	0	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.22	0.00	0.12	0.39	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Crit Moves:	****				****					****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

****

Intersection #2 Studebaker Rd/SR-22 EB Ramps

****

Cycle (sec):	100	Critical Vol./Cap. (X):	0.818
Loss Time (sec):	15 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	81	Level Of Service:	D

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0 2	0	0	1 0 2	0	0	0 0 0	0	0	2 0 0	0	1
Volume Module:												
Base Vol:	0	871	1074	376	2099	0	0	0	0	36	0	112
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:	0	871	1074	376	2099	0	0	0	0	36	0	112
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	871	0	376	2099	0	0	0	0	36	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	871	0	376	2099	0	0	0	0	36	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	871	0	376	2099	0	0	0	0	36	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	2880	0	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.27	0.00	0.24	0.66	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Crit Moves:	****				****					****		

****

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #3 Studebaker Road/AES Plant Driveway

Cycle (sec): 100 Critical Vol./Cap. (X): 0.611
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 45 Level Of Service: B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	0 0	1! 0	0
Volume Module:												
Base Vol:	0	1533	2	12	1202	0	0	0	0	5	0	2
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:	0	1533	2	12	1202	0	0	0	0	5	0	2
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:	0	1533	2	12	1202	0	0	0	0	5	0	2
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1533	2	12	1202	0	0	0	0	5	0	2
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 Vol.:	0	1533	2	12	1202	0	0	0	0	5	0	2
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	0.71	0.00	0.29
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	1143	0	457
Capacity Analysis Module:												
Vol/Sat:	0.00	0.48	0.00	0.01	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crit Moves:		****		****						****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #3 Studebaker Road/AES Plant Driveway

Cycle (sec): 100 Critical Vol./Cap. (X): 0.734
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 59 Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	0 0	1! 0	0
Volume Module:												
Base Vol:	0	1936	9	1	1930	0	0	0	0	10	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:	0	1936	9	1	1930	0	0	0	0	10	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:	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:	0	1936	9	1	1930	0	0	0	0	10	0	7
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1936	9	1	1930	0	0	0	0	10	0	7
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 Vol.:	0	1936	9	1	1930	0	0	0	0	10	0	7
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	0.59	0.00	0.41
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	941	0	659
Capacity Analysis Module:												
Vol/Sat:	0.00	0.61	0.01	0.00	0.60	0.00	0.00	0.00	0.00	0.01	0.00	0.01
Crit Moves:	****				****					****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #4 Studebaker Rd/Loynes Dr

Cycle (sec):	100	Critical Vol./Cap. (X):	0.807
Loss Time (sec):	15 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	79	Level Of Service:	D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0 2 0 0			0 0 2 0 1			2 0 0 0 2			0 0 0 0 0		
Volume Module:												
Base Vol:	30	1829	0	0	957	219	246	0	50	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:	30	1829	0	0	957	219	246	0	50	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:	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:	30	1829	0	0	957	219	246	0	50	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	30	1829	0	0	957	219	246	0	50	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 Vol.:	30	1829	0	0	957	219	246	0	50	0	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.00	0.00	0.00	2.00	1.00	2.00	0.00	2.00	0.00	0.00	0.00
Final Sat.:	1600	3200	0	0	3200	1600	2880	0	3200	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.02	0.57	0.00	0.00	0.30	0.14	0.09	0.00	0.02	0.00	0.00	0.00
Crit Moves:		****		****			****					

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #4 Studebaker Rd/Loynes Dr

Cycle (sec):	100	Critical Vol./Cap. (X):	0.792
Loss Time (sec):	15 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	75	Level Of Service:	C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 0	0	0 0	2 0	1	2 0	0 0	2	0 0	0 0	0
Volume Module:												
Base Vol:	89	1645	0	0	1574	626	272	0	88	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:	89	1645	0	0	1574	626	272	0	88	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:	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:	89	1645	0	0	1574	626	272	0	88	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	89	1645	0	0	1574	626	272	0	88	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 Vol.:	89	1645	0	0	1574	626	272	0	88	0	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.00	0.00	0.00	2.00	1.00	2.00	0.00	2.00	0.00	0.00	0.00
Final Sat.:	1600	3200	0	0	3200	1600	2880	0	3200	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.06	0.51	0.00	0.00	0.49	0.39	0.09	0.00	0.03	0.00	0.00	0.00
Crit Moves:	****				****		****					

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #5 Studebaker Rd/2nd Street

Cycle (sec): 100 Critical Vol./Cap. (X): 0.903
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 109 Level Of Service: B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Ovl			Include			Ovl		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0 0 0 0			2 0 0 0 2			2 0 2 0 0			0 0 2 0 1		
Volume Module:												
Base Vol:	0	0	0	263	0	526	1353	483	0	0	615	392
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:	0	0	0	263	0	526	1353	483	0	0	615	392
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:	0	0	0	263	0	526	1353	483	0	0	615	392
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	263	0	526	1353	483	0	0	615	392
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 Vol.:	0	0	0	263	0	526	1353	483	0	0	615	392
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	2.00	0.00	2.00	2.00	2.00	0.00	0.00	2.00	1.00
Final Sat.:	0	0	0	2880	0	3200	2880	3200	0	0	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.09	0.00	0.16	0.47	0.15	0.00	0.00	0.19	0.25
Crit Moves:				****			****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #5 Studebaker Rd/2nd Street

Cycle (sec): 100 Critical Vol./Cap. (X): 0.891
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 104 Level Of Service: D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Ovl			Include			Ovl		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	0 0	0	2 0	0 0	2	2 0	2 0	0	0 0	2 0	1
Volume Module:												
Base Vol:	0	0	0	330	0	952	1202	468	0	0	670	433
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:	0	0	0	330	0	952	1202	468	0	0	670	433
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:	0	0	0	330	0	952	1202	468	0	0	670	433
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	330	0	952	1202	468	0	0	670	433
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 Vol.:	0	0	0	330	0	952	1202	468	0	0	670	433
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	2.00	0.00	2.00	2.00	2.00	0.00	0.00	2.00	1.00
Final Sat.:	0	0	0	2880	0	3200	2880	3200	0	0	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.11	0.00	0.30	0.42	0.15	0.00	0.00	0.21	0.27
Crit Moves:				****			****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #6 PCH/7th St

Cycle (sec): 100 Critical Vol./Cap. (X): 1.167
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: F

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	2 0	3 0	0	0 0	2 1	0	0 0	2 0	1
Volume Module:												
Base Vol:	125	1277	2	415	688	0	0	2022	152	0	1845	585
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:	125	1277	2	415	688	0	0	2022	152	0	1845	585
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:	125	1277	2	415	688	0	0	2022	152	0	1845	585
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	125	1277	2	415	688	0	0	2022	152	0	1845	585
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 Vol.:	125	1277	2	415	688	0	0	2022	152	0	1845	585
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.99	0.01	2.00	3.00	0.00	0.00	2.79	0.21	0.00	2.00	1.00
Final Sat.:	1600	4792	8	2880	4800	0	0	4464	336	0	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.08	0.27	0.27	0.14	0.14	0.00	0.00	0.45	0.45	0.00	0.58	0.37
Crit Moves:		****		****			****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #6 PCH/7th St

Cycle (sec):	100	Critical Vol./Cap. (X):	1.255
Loss Time (sec):	18 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	180	Level Of Service:	F

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0 2 1 0			2 0 3 0 0			0 0 2 1 0			0 0 2 0 1		
Volume Module:												
Base Vol:	193	893	0	652	1191	0	0	2097	212	0	2119	438
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:	193	893	0	652	1191	0	0	2097	212	0	2119	438
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:	193	893	0	652	1191	0	0	2097	212	0	2119	438
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	193	893	0	652	1191	0	0	2097	212	0	2119	438
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 Vol.:	193	893	0	652	1191	0	0	2097	212	0	2119	438
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	0.00	2.00	3.00	0.00	0.00	2.72	0.28	0.00	2.00	1.00
Final Sat.:	1600	4800	0	2880	4800	0	0	4359	441	0	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.12	0.19	0.00	0.23	0.25	0.00	0.00	0.48	0.48	0.00	0.66	0.27
Crit Moves:		****		****			****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #7 PCH/Bellflower Blvd

Cycle (sec):	100	Critical Vol./Cap. (X):	0.683
Loss Time (sec):	18 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	63	Level Of Service:	B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 1	0	1 0	2 0	1	1 1	2 0	1
Volume Module:												
Base Vol:	44	1315	423	20	815	20	119	461	19	209	127	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:	44	1315	423	20	815	20	119	461	19	209	127	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:	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:	44	1315	423	20	815	20	119	461	19	209	127	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	44	1315	423	20	815	20	119	461	19	209	127	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 Vol.:	44	1315	423	20	815	20	119	461	19	209	127	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.93	0.07	1.00	2.00	1.00	2.00	2.00	1.00
Final Sat.:	1600	4800	1600	1600	4685	115	1600	3200	1600	2880	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.03	0.27	0.26	0.01	0.17	0.17	0.07	0.14	0.01	0.07	0.04	0.00
Crit Moves:		****		****				****		****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #7 PCH/Bellflower Blvd

Cycle (sec):	100	Critical Vol./Cap. (X):	0.787
Loss Time (sec):	18 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	79	Level Of Service:	C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 1	0	1 0	2 0	1	1 1	2 0	1
Volume Module:												
Base Vol:	134	969	382	98	1177	75	45	314	11	474	351	6
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:	134	969	382	98	1177	75	45	314	11	474	351	6
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:	134	969	382	98	1177	75	45	314	11	474	351	6
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	134	969	382	98	1177	75	45	314	11	474	351	6
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 Vol.:	134	969	382	98	1177	75	45	314	11	474	351	6
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.82	0.18	1.00	2.00	1.00	2.00	2.00	1.00
Final Sat.:	1600	4800	1600	1600	4512	288	1600	3200	1600	2880	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.08	0.20	0.24	0.06	0.26	0.26	0.03	0.10	0.01	0.16	0.11	0.00
Crit Moves:	****				****			****		****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

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Intersection #8 PCH/Loynes Dr

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Cycle (sec): 100 Critical Vol./Cap. (X): 0.706
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 61 Level Of Service: C

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	1 0	3 0	1	1 0	1 1	0	1 0	2 0	1
Volume Module:												
Base Vol:	48	1770	84	34	827	19	28	177	112	93	130	70
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:	48	1770	84	34	827	19	28	177	112	93	130	70
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:	48	1770	84	34	827	19	28	177	112	93	130	70
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	48	1770	84	34	827	19	28	177	112	93	130	70
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 Vol.:	48	1770	84	34	827	19	28	177	112	93	130	70
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.86	0.14	1.00	3.00	1.00	1.00	1.22	0.78	1.00	2.00	1.00
Final Sat.:	1600	4583	217	1600	4800	1600	1600	1960	1240	1600	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.03	0.39	0.39	0.02	0.17	0.01	0.02	0.09	0.09	0.06	0.04	0.04
Crit Moves:		****		****				****		****		

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Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #8 PCH/Loynes Dr

Cycle (sec):	100	Critical Vol./Cap. (X):	0.815
Loss Time (sec):	15 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	81	Level Of Service:	D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	1 0	3 0	1	1 0	1 1	0	1 0	2 0	1
Volume Module:												
Base Vol:	163	1277	122	47	1690	32	31	203	103	185	322	51
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:	163	1277	122	47	1690	32	31	203	103	185	322	51
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:	163	1277	122	47	1690	32	31	203	103	185	322	51
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	163	1277	122	47	1690	32	31	203	103	185	322	51
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 Vol.:	163	1277	122	47	1690	32	31	203	103	185	322	51
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.74	0.26	1.00	3.00	1.00	1.00	1.33	0.67	1.00	2.00	1.00
Final Sat.:	1600	4381	419	1600	4800	1600	1600	2123	1077	1600	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.10	0.29	0.29	0.03	0.35	0.02	0.02	0.10	0.10	0.12	0.10	0.03
Crit Moves:	****				****			****			****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #9 PCH/2nd St

Cycle (sec): 100 Critical Vol./Cap. (X): 0.895
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 110 Level Of Service: D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	2 0	2 1	0	1 0	2 1	0	2 0	2 1	1	2 0	3 0	1
Volume Module:												
Base Vol:	497	1150	406	114	668	179	183	1117	299	251	549	168
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:	497	1150	406	114	668	179	183	1117	299	251	549	168
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:	497	1150	406	114	668	179	183	1117	299	251	549	168
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	497	1150	406	114	668	179	183	1117	299	251	549	168
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 Vol.:	497	1150	406	114	668	179	183	1117	299	251	549	168
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	0.90	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00
Lanes:	2.00	2.22	0.78	1.00	2.37	0.63	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	2880	3548	1252	1600	3786	1014	2880	4800	1600	2880	4800	1600
Capacity Analysis Module:												
Vol/Sat:	0.17	0.32	0.32	0.07	0.18	0.18	0.06	0.23	0.19	0.09	0.11	0.11
Crit Moves:		****		****				****		****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

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Intersection #9 PCH/2nd St

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Cycle (sec): 100 Critical Vol./Cap. (X): 1.059
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: F

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	2 0	2 1	0	1 0	2 1	0	2 0	2 1	1	2 0	3 0	1
Volume Module:												
Base Vol:	338	1024	361	222	1328	482	496	1311	438	321	920	271
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:	338	1024	361	222	1328	482	496	1311	438	321	920	271
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:	338	1024	361	222	1328	482	496	1311	438	321	920	271
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	338	1024	361	222	1328	482	496	1311	438	321	920	271
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 Vol.:	338	1024	361	222	1328	482	496	1311	438	321	920	271
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	0.90	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00
Lanes:	2.00	2.22	0.78	1.00	2.20	0.80	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	2880	3549	1251	1600	3522	1278	2880	4797	1603	2880	4800	1600
Capacity Analysis Module:												
Vol/Sat:	0.12	0.29	0.29	0.14	0.38	0.38	0.17	0.27	0.27	0.11	0.19	0.17
Crit Moves:	****				****			****		****		

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Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #11 Bixby Village/Loynes Dr

Cycle (sec): 100 Critical Vol./Cap. (X): 0.245
Loss Time (sec): 10 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 23 Level Of Service: A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Permitted			Permitted			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	1! 0	0	0 1	0 0	1	1 0	2 0	1	1 0	1 1	0
Volume Module:												
Base Vol:	26	8	23	21	5	45	26	298	12	6	246	24
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:	26	8	23	21	5	45	26	298	12	6	246	24
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:	26	8	23	21	5	45	26	298	12	6	246	24
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	26	8	23	21	5	45	26	298	12	6	246	24
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 Vol.:	26	8	23	21	5	45	26	298	12	6	246	24
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.46	0.14	0.40	0.91	0.19	1.00	1.00	2.00	1.00	1.00	1.82	0.18
Final Sat.:	730	225	646	1292	308	1600	1600	3200	1600	1600	2916	284
Capacity Analysis Module:												
Vol/Sat:	0.02	0.04	0.04	0.01	0.02	0.03	0.02	0.09	0.01	0.00	0.08	0.08
Crit Moves:	****					****	****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

****

Intersection #11 Bixby Village/Loynes Dr

****

Cycle (sec): 100 Critical Vol./Cap. (X): 0.401
Loss Time (sec): 10 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 29 Level Of Service: A

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Permitted			Permitted			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	1! 0	0	0 1	0 0	1	1 0	2 0	1	1 0	1 1	0
Volume Module:												
Base Vol:	21	12	21	29	21	47	65	303	27	34	616	50
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:	21	12	21	29	21	47	65	303	27	34	616	50
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:	21	12	21	29	21	47	65	303	27	34	616	50
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	21	12	21	29	21	47	65	303	27	34	616	50
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 Vol.:	21	12	21	29	21	47	65	303	27	34	616	50
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.39	0.22	0.39	0.58	0.42	1.00	1.00	2.00	1.00	1.00	1.85	0.15
Final Sat.:	622	356	622	928	672	1600	1600	3200	1600	1600	2960	240
Capacity Analysis Module:												
Vol/Sat:	0.01	0.03	0.03	0.02	0.03	0.03	0.04	0.09	0.02	0.02	0.21	0.21
Crit Moves:		****		****			****				****	

****

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #100 PCH/Studebaker Rd

Cycle (sec):	100	Critical Vol./Cap. (X):	0.809
Loss Time (sec):	15 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	79	Level Of Service:	D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	1 1	0 0	1	0 0	1! 0	0
Volume Module:												
Base Vol:	76	2216	17	8	1352	65	58	11	293	6	2	1
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:	76	2216	17	8	1352	65	58	11	293	6	2	1
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:	76	2216	17	8	1352	65	58	11	293	6	2	1
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	76	2216	17	8	1352	65	58	11	293	6	2	1
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 Vol.:	76	2216	17	8	1352	65	58	11	293	6	2	1
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	1.68	0.32	1.00	0.67	0.22	0.11
Final Sat.:	1600	4800	1600	1600	3200	1600	2690	510	1600	1067	356	178
Capacity Analysis Module:												
Vol/Sat:	0.05	0.46	0.01	0.01	0.42	0.04	0.02	0.02	0.18	0.01	0.01	0.01
Crit Moves:	****				****				****	****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

****

Intersection #100 PCH/Studebaker Rd

****

Cycle (sec): 100 Critical Vol./Cap. (X): 1.144
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: F

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	1 1	0 0	1	0 0	1! 0	0
Volume Module:												
Base Vol:	147	1470	18	19	1892	66	194	13	377	71	32	18
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:	147	1470	18	19	1892	66	194	13	377	71	32	18
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:	147	1470	18	19	1892	66	194	13	377	71	32	18
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	147	1470	18	19	1892	66	194	13	377	71	32	18
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 Vol.:	147	1470	18	19	1892	66	194	13	377	71	32	18
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	1.87	0.13	1.00	0.59	0.26	0.15
Final Sat.:	1600	4800	1600	1600	3200	1600	2999	201	1600	939	423	238
Capacity Analysis Module:												
Vol/Sat:	0.09	0.31	0.01	0.01	0.59	0.04	0.06	0.06	0.24	0.08	0.08	0.08
Crit Moves:	****				****				****			****

****

APPENDIX D

CUMULATIVE LEVEL OF SERVICE WORKSHEETS

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Studebaker Rd/SR-22 WB Ramps

Cycle (sec): 100 Critical Vol./Cap. (X): 0.711
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 62 Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	725	41	79	852	0	0	0	0	644	0	559
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	744	42	81	874	0	0	0	0	661	0	574
Added Vol:	0	9	0	0	14	0	0	0	0	11	0	0
PasserByVol:	0	1	0	0	2	0	0	0	0	120	0	0
Initial Fut:	0	754	42	81	890	0	0	0	0	792	0	574
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	754	0	81	890	0	0	0	0	792	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	754	0	81	890	0	0	0	0	792	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	754	0	81	890	0	0	0	0	792	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	2880	0	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.24	0.00	0.05	0.28	0.00	0.00	0.00	0.00	0.27	0.00	0.00
Crit Moves:		****		****						****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

****

Intersection #1 Studebaker Rd/SR-22 WB Ramps

****

Cycle (sec): 100 Critical Vol./Cap. (X): 1.022
Loss Time (sec): 15 (Y-R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: F

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	941	56	73	1375	0	0	0	0	1110	0	320
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	965	57	75	1411	0	0	0	0	1139	0	328
Added Vol:	0	47	0	0	43	0	0	0	0	32	0	0
PasserByVol:	0	2	0	0	2	0	0	0	0	30	0	0
Initial Fut:	0	1014	57	75	1456	0	0	0	0	1201	0	328
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	1014	0	75	1456	0	0	0	0	1201	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1014	0	75	1456	0	0	0	0	1201	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	1014	0	75	1456	0	0	0	0	1201	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	2880	0	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.32	0.00	0.05	0.45	0.00	0.00	0.00	0.00	0.42	0.00	0.00
Crit Moves:	****				****					****		

****

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #2 Studebaker Rd/SR-22 EB Ramps

Cycle (sec): 100 Critical Vol./Cap. (X): 0.608
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 50 Level Of Service: B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0 2	0	1	1 0 2	0	0	0 0 0	0	0	2 0 0	0	1
Volume Module:												
Base Vol:	0	710	1351	194	1263	0	0	0	0	20	0	107
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	728	1386	199	1296	0	0	0	0	21	0	110
Added Vol:	0	9	7	0	25	0	0	0	0	0	0	0
PasserByVol:	0	1	24	0	121	0	0	0	0	0	0	0
Initial Fut:	0	738	1417	199	1442	0	0	0	0	21	0	110
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	738	0	199	1442	0	0	0	0	21	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	738	0	199	1442	0	0	0	0	21	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	738	0	199	1442	0	0	0	0	21	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	2880	0	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.23	0.00	0.12	0.45	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Crit Moves:	****				****					****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

****

Intersection #2 Studebaker Rd/SR-22 EB Ramps

****

Cycle (sec): 100 Critical Vol./Cap. (X): 0.870
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 96 Level Of Service: D

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0 2	0	1	1 0 2	0	0	0 0 0	0	0	2 0 0	0	1
Volume Module:												
Base Vol:	0	871	1074	376	2099	0	0	0	0	36	0	112
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	894	1102	386	2154	0	0	0	0	37	0	115
Added Vol:	0	47	35	0	76	0	0	0	0	0	0	0
PasserByVol:	0	2	129	0	32	0	0	0	0	0	0	0
Initial Fut:	0	943	1266	386	2262	0	0	0	0	37	0	115
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	943	0	386	2262	0	0	0	0	37	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	943	0	386	2262	0	0	0	0	37	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	943	0	386	2262	0	0	0	0	37	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	2880	0	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.29	0.00	0.24	0.71	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Crit Moves:	****				****					****		

****

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #3 Studebaker Road/ABS Plant Driveway

Cycle (sec): 100 Critical Vol./Cap. (X): 0.637
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 47 Level Of Service: B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	0 0	1! 0	0
Volume Module:												
Base Vol:	0	1533	2	12	1202	0	0	0	0	5	0	2
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	1573	2	12	1233	0	0	0	0	5	0	2
Added Vol:	0	16	0	0	25	0	0	0	0	0	0	0
PasserByVol:	0	25	0	0	81	0	0	0	0	0	0	0
Initial Fut:	0	1614	2	12	1339	0	0	0	0	5	0	2
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:	0	1614	2	12	1339	0	0	0	0	5	0	2
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1614	2	12	1339	0	0	0	0	5	0	2
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 Vol.:	0	1614	2	12	1339	0	0	0	0	5	0	2
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	0.71	0.01	0.28
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	1143	0	457
Capacity Analysis Module:												
Vol/Sat:	0.00	0.50	0.00	0.01	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crit Moves:		****		****						****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

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Intersection #3 Studebaker Road/AES Plant Driveway

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Cycle (sec): 100 Critical Vol./Cap. (X): 0.819
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 76 Level Of Service: D

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	0 0	1! 0	0
Volume Module:												
Base Vol:	0	1936	9	1	1930	0	0	0	0	10	0	7
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	1986	9	1	1980	0	0	0	0	10	0	7
Added Vol:	0	82	0	0	76	0	0	0	0	0	0	0
PasserByVol:	0	132	0	0	32	0	0	0	0	0	0	0
Initial Fut:	0	2200	9	1	2088	0	0	0	0	10	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:	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:	0	2200	9	1	2088	0	0	0	0	10	0	7
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	2200	9	1	2088	0	0	0	0	10	0	7
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 Vol.:	0	2200	9	1	2088	0	0	0	0	10	0	7
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	0.59	0.00	0.41
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	941	0	659
Capacity Analysis Module:												
Vol/Sat:	0.00	0.69	0.01	0.00	0.65	0.00	0.00	0.00	0.00	0.01	0.00	0.01
Crit Moves:		****		****						****		

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Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Studebaker Rd/Loynes Dr

Cycle (sec): 100 Critical Vol./Cap. (X): 0.867
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 100 Level Of Service: D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 0	1	1 0	2 0	1	2 0	1 0	1	1 0	1 0	1
Volume Module:												
Base Vol:	30	1829	0	0	957	219	246	0	50	0	0	0
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	31	1877	0	0	982	225	252	0	51	0	0	0
Added Vol:	0	16	0	0	25	0	0	0	0	0	0	0
PasserByVol:	0	25	0	0	81	0	0	0	0	0	0	0
Initial Fut:	31	1918	0	0	1088	225	252	0	51	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:	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:	31	1918	0	0	1088	225	252	0	51	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	31	1918	0	0	1088	225	252	0	51	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 Vol.:	31	1918	0	0	1088	225	252	0	51	0	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00
Final Sat.:	1600	3200	1600	1600	3200	1600	2880	1600	1600	1600	1600	1600
Capacity Analysis Module:												
Vol/Sat:	0.02	0.60	0.00	0.00	0.34	0.14	0.09	0.00	0.03	0.00	0.00	0.00
Crit Moves:		****		****			****					

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Studebaker Rd/Loynes Dr

Cycle (sec):	100	Critical Vol./Cap. (X):	0.872
Loss Time (sec):	18 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	101	Level Of Service:	D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 0	1	1 0	2 0	1	2 0	1 0	1	1 0	1 0	1
Volume Module:												
Base Vol:	89	1645	0	0	1574	626	272	0	88	0	0	0
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	91	1688	0	0	1615	642	279	0	90	0	0	0
Added Vol:	0	82	0	0	76	0	0	0	0	0	0	0
PasserByVol:	0	132	0	0	32	0	0	0	0	0	0	0
Initial Fut:	91	1902	0	0	1723	642	279	0	90	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:	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:	91	1902	0	0	1723	642	279	0	90	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	91	1902	0	0	1723	642	279	0	90	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 Vol.:	91	1902	0	0	1723	642	279	0	90	0	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00
Final Sat.:	1600	3200	1600	1600	3200	1600	2880	1600	1600	1600	1600	1600
Capacity Analysis Module:												
Vol/Sat:	0.06	0.59	0.00	0.00	0.54	0.40	0.10	0.00	0.06	0.00	0.00	0.00
Crit Moves:	****				****		****					

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #5 Studebaker Rd/2nd Street

Cycle (sec): 100 Critical Vol./Cap. (X): 0.965
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 146 Level Of Service: Z

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Ovl			Include			Ovl		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	0 0	0	2 0	0 0	2	2 0	2 0	0	0 0	2 0	1
Volume Module:												
Base Vol:	0	0	0	263	0	526	1353	483	0	0	615	392
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	0	0	270	0	540	1388	496	0	0	631	402
Added Vol:	0	0	0	0	0	25	16	2	0	0	4	0
PasserByVol:	0	0	0	81	0	0	0	103	0	0	22	25
Initial Fut:	0	0	0	351	0	565	1404	601	0	0	657	427
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:	0	0	0	351	0	565	1404	601	0	0	657	427
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	351	0	565	1404	601	0	0	657	427
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 Vol.:	0	0	0	351	0	565	1404	601	0	0	657	427
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	2.00	0.00	2.00	2.00	2.00	0.00	0.00	2.00	1.00
Final Sat.:	0	0	0	2880	0	3200	2880	3200	0	0	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.12	0.00	0.18	0.49	0.19	0.00	0.00	0.21	0.27
Crit Moves:				****			****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #5 Studebaker Rd/2nd Street

Cycle (sec): 100 Critical Vol./Cap. (X): 0.984
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 163 Level Of Service: E

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Ovl			Include			Ovl		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	0 0	0	2 0	0 0	2	2 0	2 0	0	0 0	2 0	1
Volume Module:												
Base Vol:	0	0	0	330	0	952	1202	468	0	0	670	433
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	0	0	339	0	977	1233	480	0	0	687	444
Added Vol:	0	0	0	0	0	76	82	12	0	0	11	0
PasserByVol:	0	0	0	26	0	0	0	42	0	0	104	132
Initial Fut:	0	0	0	365	0	1053	1315	534	0	0	802	576
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:	0	0	0	365	0	1053	1315	534	0	0	802	576
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	365	0	1053	1315	534	0	0	802	576
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 Vol.:	0	0	0	365	0	1053	1315	534	0	0	802	576
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	2.00	0.00	2.00	2.00	2.00	0.00	0.00	2.00	1.00
Final Sat.:	0	0	0	2880	0	3200	2880	3200	0	0	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.13	0.00	0.33	0.46	0.17	0.00	0.00	0.25	0.36
Crit Moves:				****			****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #6 PCH/7th St

Cycle (sec): 100 Critical Vol./Cap. (X): 1.197
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: ?

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	2 0	3 0	0	0 0	2 1	0	0 0	2 0	1
Volume Module:												
Base Vol:	125	1277	2	415	688	0	0	2022	152	0	1845	585
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	128	1310	2	426	706	0	0	2075	156	0	1893	600
Added Vol:	5	5	0	0	7	0	0	0	7	0	0	0
PasserByVol:	7	17	0	0	84	0	0	0	36	0	0	0
Initial Put:	140	1332	2	426	797	0	0	2075	199	0	1893	600
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:	140	1332	2	426	797	0	0	2075	199	0	1893	600
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	140	1332	2	426	797	0	0	2075	199	0	1893	600
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 Vol.:	140	1332	2	426	797	0	0	2075	199	0	1893	600
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.99	0.01	2.00	3.00	0.00	0.00	2.74	0.26	0.00	2.00	1.00
Final Sat.:	1600	4793	7	2880	4800	0	0	4380	420	0	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.09	0.28	0.28	0.15	0.17	0.00	0.00	0.47	0.47	0.00	0.59	0.38
Crit Moves:		****		****			****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

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Intersection #6 PCH/7th St

****

Cycle (sec): 100 Critical Vol./Cap. (X): 1.306
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: F

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0 2 1 0			2 0 3 0 0			0 0 2 1 0			0 0 2 0 1		
Volume Module:												
Base Vol:	193	893	0	652	1191	0	0	2097	212	0	2119	438
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	198	916	0	669	1222	0	0	2152	218	0	2174	449
Added Vol:	23	23	0	0	22	0	0	0	22	0	0	0
PasserByVol:	39	91	0	0	22	0	0	0	9	0	0	0
Initial Fut:	260	1030	0	669	1266	0	0	2152	249	0	2174	449
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:	260	1030	0	669	1266	0	0	2152	249	0	2174	449
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	260	1030	0	669	1266	0	0	2152	249	0	2174	449
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 Vol.:	260	1030	0	669	1266	0	0	2152	249	0	2174	449
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	0.00	2.00	3.00	0.00	0.00	2.69	0.31	0.00	2.00	1.00
Final Sat.:	1600	4800	0	2880	4800	0	0	4303	497	0	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.16	0.21	0.00	0.23	0.26	0.00	0.00	0.50	0.50	0.00	0.68	0.28
Crit Moves:		****		****			****				****	

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Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #7 PCH/Bellflower Blvd

Cycle (sec): 100 Critical Vol./Cap. (X): 0.707
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 56 Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 1	0	1 0	2 0	1	1 1	2 0	1
Volume Module:												
Base Vol:	44	1315	423	20	815	20	119	461	19	209	127	0
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	45	1349	434	21	836	21	122	473	19	214	130	0
Added Vol:	0	9	7	0	14	0	0	0	0	11	0	0
PasserByVol:	0	24	0	0	120	0	0	0	0	0	0	0
Initial Fut:	45	1382	441	21	970	21	122	473	19	225	130	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:	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:	45	1382	441	21	970	21	122	473	19	225	130	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	45	1382	441	21	970	21	122	473	19	225	130	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 Vol.:	45	1382	441	21	970	21	122	473	19	225	130	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.94	0.06	1.00	2.00	1.00	2.00	2.00	1.00
Final Sat.:	1600	4800	1600	1600	4701	99	1600	3200	1600	2880	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.03	0.29	0.28	0.01	0.21	0.21	0.08	0.15	0.01	0.08	0.04	0.00
Crit Moves:		****		****				****		****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #7 PCH/Bellflower Blvd

Cycle (sec):	100	Critical Vol./Cap. (X):	0.830
Loss Time (sec):	18 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	89	Level Of Service:	D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 1	0	1 0	2 0	1	1 1	2 0	1
Volume Module:												
Base Vol:	134	969	382	98	1177	75	45	314	11	474	351	6
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	137	994	392	101	1208	77	46	322	11	486	360	6
Added Vol:	0	47	35	0	43	0	0	0	0	32	0	0
PasserByVol:	0	130	0	0	31	0	0	0	0	0	0	0
Initial Fut:	137	1171	427	101	1282	77	46	322	11	518	360	6
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:	137	1171	427	101	1282	77	46	322	11	518	360	6
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	137	1171	427	101	1282	77	46	322	11	518	360	6
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 Vol.:	137	1171	427	101	1282	77	46	322	11	518	360	6
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.83	0.17	1.00	2.00	1.00	2.00	2.00	1.00
Final Sat.:	1600	4800	1600	1600	4528	272	1600	3200	1600	2880	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.09	0.24	0.27	0.06	0.28	0.28	0.03	0.10	0.01	0.18	0.11	0.00
Crit Moves:	****				****			****		****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #8 PCH/Loynes Dr

Cycle (sec): 100 Critical Vol./Cap. (X): 0.730
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 64 Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	1 0	3 0	1	1 0	1 1	0	1 0	2 0	1
Volume Module:												
Base Vol:	48	1770	84	34	827	19	26	177	112	93	130	70
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	49	1816	86	35	849	19	29	182	115	95	133	72
Added Vol:	1	16	1	0	25	0	0	0	1	2	0	0
PasserByVol:	0	24	0	0	120	0	0	0	0	0	0	0
Initial Fut:	50	1856	87	35	994	19	29	182	116	97	133	72
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:	50	1856	87	35	994	19	29	182	116	97	133	72
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	50	1856	87	35	994	19	29	182	116	97	133	72
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 Vol.:	50	1856	87	35	994	19	29	182	116	97	133	72
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.87	0.13	1.00	3.00	1.00	1.00	1.22	0.78	1.00	2.00	1.00
Final Sat.:	1600	4585	215	1600	4800	1600	1600	1953	1247	1600	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.03	0.40	0.40	0.02	0.21	0.01	0.02	0.09	0.09	0.06	0.04	0.04
Crit Moves:		****		****				****		****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

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Intersection #8 PCH/Loynes Dr

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Cycle (sec): 100 Critical Vol./Cap. (X): 0.863
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 94 Level Of Service: D

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	1 0	3 0	1	1 0	1 1	0	1 0	2 0	1
Volume Module:												
Base Vol:	163	1277	122	47	1690	32	31	203	103	185	322	51
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	167	1310	125	48	1734	33	32	208	106	190	330	52
Added Vol:	5	82	7	0	76	0	0	0	4	6	0	0
PasserByVol:	0	130	0	0	31	0	0	0	0	0	0	0
Initial Fut:	172	1522	132	48	1841	33	32	208	110	196	330	52
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:	172	1522	132	48	1841	33	32	208	110	196	330	52
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	172	1522	132	48	1841	33	32	208	110	196	330	52
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 Vol.:	172	1522	132	48	1841	33	32	208	110	196	330	52
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.76	0.24	1.00	3.00	1.00	1.00	1.31	0.69	1.00	2.00	1.00
Final Sat.:	1600	4417	383	1600	4800	1600	1600	2096	1104	1600	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.11	0.34	0.34	0.03	0.38	0.02	0.02	0.10	0.10	0.12	0.10	0.03
Crit Moves:	****				****			****		****		

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Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #9 PCH/2nd St

Cycle (sec): 100 Critical Vol./Cap. (X): 0.933
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 126 Level Of Service: E

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	2 0	2 1	0	2 0	3 0	1	2 0	2 1	1	2 0	3 0	1
Volume Module:												
Base Vol:	497	1150	406	114	668	179	183	1117	299	251	549	168
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	510	1180	417	117	685	184	188	1146	307	258	563	172
Added Vol:	7	18	18	0	28	0	0	0	11	28	0	0
PasserByVol:	1	9	0	80	40	0	0	24	8	0	11	13
Initial Fut:	518	1207	435	197	753	184	188	1170	326	286	574	185
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:	518	1207	435	197	753	184	188	1170	326	286	574	185
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	518	1207	435	197	753	184	188	1170	326	286	574	185
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 Vol.:	518	1207	435	197	753	184	188	1170	326	286	574	185
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	0.90	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00
Lanes:	2.00	2.21	0.79	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	2880	3529	1271	2880	4800	1600	2880	4800	1600	2880	4800	1600
Capacity Analysis Module:												
Vol/Sat:	0.18	0.34	0.34	0.07	0.16	0.11	0.07	0.24	0.20	0.10	0.12	0.12
Crit Moves:		****		****				****		****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #9 PCH/2nd St

Cycle (sec): 100 Critical Vol./Cap. (X): 1.057
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: F

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	2 0	2 1	0	2 0	3 0	1	2 0	2 1	1	2 0	3 0	1
Volume Module:												
Base Vol:	338	1024	361	222	1328	482	496	1311	438	321	920	271
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	347	1051	370	228	1363	495	509	1345	449	329	944	278
Added Vol:	35	94	94	0	86	0	0	0	32	86	0	0
PasserByVol:	9	53	0	25	6	0	0	17	1	0	27	76
Initial Fut:	391	1198	464	253	1455	495	509	1362	482	415	971	354
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:	391	1198	464	253	1455	495	509	1362	482	415	971	354
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	391	1198	464	253	1455	495	509	1362	482	415	971	354
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 Vol.:	391	1198	464	253	1455	495	509	1362	482	415	971	354
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	0.90	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00
Lanes:	2.00	2.16	0.84	2.00	3.00	1.00	2.00	2.95	1.05	2.00	3.00	1.00
Final Sat.:	2880	3459	1341	2880	4800	1600	2880	4726	1674	2880	4800	1600
Capacity Analysis Module:												
Vol/Sat:	0.14	0.35	0.35	0.09	0.30	0.31	0.18	0.29	0.29	0.14	0.20	0.22
Crit Moves:	****					****		****		****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

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Intersection #11 Bixby Village/Loynes Dr

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Cycle (sec): 100 Critical Vol./Cap. (X): 0.251
Loss Time (sec): 10 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 24 Level Of Service: A

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Permitted			Permitted			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	1! 0	0	0 1	0 0	1	1 0	2 0	1	1 0	1 1	0
Volume Module:												
Base Vol:	26	8	23	21	5	45	26	298	12	6	246	24
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	27	8	24	22	5	46	27	306	12	6	252	25
Added Vol:	0	0	0	0	0	2	1	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	27	8	24	22	5	48	28	306	12	6	252	25
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:	27	8	24	22	5	48	28	306	12	6	252	25
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	27	8	24	22	5	48	28	306	12	6	252	25
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 Vol.:	27	8	24	22	5	48	28	306	12	6	252	25
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.46	0.14	0.40	0.81	0.19	1.00	1.00	2.00	1.00	1.00	1.82	0.18
Final Sat.:	730	225	646	1292	308	1600	1600	3200	1600	1600	2916	284
Capacity Analysis Module:												
Vol/Sat:	0.02	0.04	0.04	0.01	0.02	0.03	0.02	0.10	0.01	0.00	0.09	0.09
Crit Moves:	****					****	****				****	

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Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #11 Bixby Village/Loynes Dr

Cycle (sec): 100 Critical Vol./Cap. (X): 0.413
Loss Time (sec): 10 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 29 Level Of Service: A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Permitted			Permitted			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	1! 0	0	0 1	0 0	1	1 0	2 0	1	1 0	1 1	0
Volume Module:												
Base Vol:	21	12	21	29	21	47	65	303	27	34	616	50
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	22	12	22	30	22	48	67	311	28	35	632	51
Added Vol:	0	0	0	0	0	6	7	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	22	12	22	30	22	54	74	311	28	35	632	51
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:	22	12	22	30	22	54	74	311	28	35	632	51
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	22	12	22	30	22	54	74	311	28	35	632	51
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 Vol.:	22	12	22	30	22	54	74	311	28	35	632	51
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.39	0.22	0.39	0.58	0.42	1.00	1.00	2.00	1.00	1.00	1.85	0.15
Final Sat.:	622	356	622	928	672	1600	1600	3200	1600	1600	2960	240
Capacity Analysis Module:												
Vol/Sat:	0.01	0.03	0.03	0.02	0.03	0.03	0.05	0.10	0.02	0.02	0.21	0.21
Crit Moves:		****		****			****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #100 PCH/Studebaker Rd

Cycle (sec): 100 Critical Vol./Cap. (X): 0.895
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 106 Level Of Service: D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	1 1	0 0	1	0 0	1! 0	0
Volume Module:												
Base Vol:	76	2216	17	8	1352	65	58	11	293	6	2	1
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	78	2274	17	8	1387	67	60	11	301	6	2	1
Added Vol:	0	0	4	67	0	0	0	0	0	2	0	43
PasserByVol:	0	10	0	0	8	0	0	0	0	0	0	0
Initial Fut:	78	2284	21	75	1395	67	60	11	301	8	2	44
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:	78	2284	21	75	1395	67	60	11	301	8	2	44
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	78	2284	21	75	1395	67	60	11	301	8	2	44
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 Vol.:	78	2284	21	75	1395	67	60	11	301	8	2	44
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	1.68	0.32	1.00	0.15	0.04	0.81
Final Sat.:	1600	4800	1600	1600	3200	1600	2690	510	1600	241	61	1299
Capacity Analysis Module:												
Vol/Sat:	0.05	0.48	0.01	0.05	0.44	0.04	0.02	0.02	0.19	0.03	0.03	0.03
Crit Moves:		****		****					****			****

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #100 PCH/Studebaker Rd

Cycle (sec): 100 Critical Vol./Cap. (X): 1.319
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: F

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	1 1	0 0	1	0 0	1 0	0
Volume Module:												
Base Vol:	147	1470	18	19	1892	66	194	13	377	71	33	18
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	151	1508	18	19	1941	68	199	13	387	73	33	18
Added Vol:	0	0	11	205	0	0	0	0	0	12	0	222
PasserByVol:	0	62	0	0	7	0	0	0	0	0	0	0
Initial Put:	151	1570	29	224	1948	68	199	13	387	85	33	240
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:	151	1570	29	224	1948	68	199	13	387	85	33	240
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	151	1570	29	224	1948	68	199	13	387	85	33	240
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 Vol.:	151	1570	29	224	1948	68	199	13	387	85	33	240
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	1.87	0.13	1.00	0.24	0.09	0.67
Final Sat.:	1600	4800	1600	1600	3200	1600	2999	201	1600	379	147	1074
Capacity Analysis Module:												
Vol/Sat:	0.09	0.33	0.02	0.14	0.61	0.04	0.07	0.07	0.24	0.22	0.22	0.22
Crit Moves:	****				****				****			****

APPENDIX E

PASS-BY SURVEY
CONDUCTED BY BARTON-ASCHMAN ASSOCIATES, INC.

BARTON-ASCHMAN A PARSONS TRANSPORTATION GROUP COMPANY

Barton-Aschman Associates, Inc. • 2 Venture, Suite 550 • Irvine, California 92718 USA • (714) 453-1619 • Fax: (714) 453-0323

Revised: February 6, 1996
January 10, 1996

Mr. James D. Otterson
City Traffic Engineer
City of Huntington Beach
2000 Main Street
Huntington Beach, CA 92648
Fax: (714) 536-6073

SUBJECT: RESULTS OF THE "PASS-BY" SURVEYS FOR THE HUNTINGTON BEACH HOME DEPOT STORE

Dear Mr. Otterson:

Barton-Aschman Associates, Inc., is pleased to share with you the results of the "pass-by" surveys conducted at three Home Depot stores in Southern California. The purpose of these surveys was to identify the number of Home Depot trips that will be attracted to the new store in Huntington Beach from the adjacent stream of traffic. The methodology and results of this survey are summarized below.

BACKGROUND

Barton-Aschman is conducting a traffic analysis for the proposed Home Depot store and garden center at Golden West and Warner in Huntington Beach. Prior to conducting the traffic analysis, we met with City of Huntington Beach transportation engineering staff to discuss the methodology, approach and guidelines to be used in conducting such a traffic analysis. One of the issues discussed was the application of "pass-by" trip reductions in developing trip generation estimates for this project. It was concluded at this meeting that, due to the unusual nature of this retail use, the ITE-developed "pass-by" trip calculations were not appropriate. Rather, the City of Huntington Beach transportation staff requested that any request for "pass-by" trip reductions be supported by surveys conducted at several Home Depot stores which would replicate operations in the proposed Huntington Beach store. The resultant "pass-by" trip estimates could then be incorporated in the traffic analysis in the generation and assignment of Home Depot trips as well as in calculating the Traffic Impact Fee (TIF) that may need to be paid by the owner of the site.

METHODOLOGY

Barton-Aschman and the City of Huntington Beach developed the attached questionnaire for the survey. The purpose of the questionnaire was to quantify those trips which do not have a final destination at the Home Depot stores but are attracted to Home Depot from the existing traffic

stream on adjacent roadways.

The first question identified the location from which each person was coming and was used primarily to validate the answers to Question 2. If the answer to Question 2 was YES, then the destination would be the same as that given as the origin in Question 1, and the trip to Home Depot would have been a primary trip. If the answer to Question 2 was NO, Question 3 would be asked. The purpose of Question 3 was to identify whether this trip was a "pass-by" trip attracted from the adjacent stream of traffic (in which case the appropriate answer was YES) or whether the trip was a linked, multi-purpose trip that required diversion to the adjacent roadway (in which case the answer was NO and this trip was not regarded as a "pass-by" trip.)

Following discussions with City of Huntington Beach transportation staff, three stores were chosen for this effort: the Santa Ana store on MacArthur Boulevard; the Orange store on Katella Avenue and the North Hollywood store on Sherman Way.

Two surveyors were used to conduct this survey. They wore Home Depot aprons identifying them as employees and used notebooks and clipboards to record the answers. They positioned themselves near the cash registers so that they could survey patrons as they waited to pay for their merchandize, thus minimizing any delays to those patrons. The surveys were generally conducted throughout the period when Home Depot was open to business, from 6:00 am to 9:00 pm. The surveys were conducted on December 14 (a Thursday), December 15 (a Friday), and December 20 (a Wednesday) at the Orange, Santa Ana and North Hollywood stores, respectively. The weather was clear during all three days during which the surveys were conducted.

RESULTS OF THE SURVEYS

Approximately 720 surveys were conducted at the Santa Ana and Orange stores. Each survey represents two trips (an inbound and an outbound trip) at the site. Based upon the SANDAG trip generation rates, a 130,000-square foot Home Depot with garden center generates approximately 7,300 daily trips. Hence, the survey represented approximately 20 percent of all trips made to a typical Home Depot site. (Note: only about 370 surveys were conducted at the North Hollywood store. This low number is most probably due to the fact that the store was only open for approximately 8 weeks at the time of the survey and had not reached the normal sales level for a typical store.)

The attached table shows the number of patrons surveyed at each store and the percentage of YES answers to Question 3 compared to the total number of surveys.

As can be seen from the table, the 13 to 15 percent of all the patrons at the Orange and Santa Ana stores indicated that their trip to the Home depot was a "pass-by" trip by answering YES to Question 3. Approximately 20 percent of both the morning peak-period (7:00 am to 9:00 am) and

evening peak-period (4:00 pm to 6:00 pm) patrons at the Orange store indicated that theirs was a "pass-by" trip. The patrons at the Santa Ana store were much more likely to make "pass-by" trips during the evening peak period (34 percent) than the morning peak- period. Approximately 11 to 15 percent of the patrons at the North Hollywood store indicated that they had made "pass-by" trips.

The surveys indicate that an average of 13.74 percent of total daily trips made by Home Depot patrons are "pass-by" trips. An average of 14.65 percent of the morning peak-hour trips made by patrons and an average of 24.91 percent of the evening peak-hour trips made by patrons are "pass-by" trips.

ANALYSIS

It is assumed that Home Depot will employ a maximum of 175 employees on any given day. While some employee trips may be made by a mode other than the single-occupant car, in order to be conservative, it was assumed that these employees will make 350 daily vehicular trips. Hence, the patrons will make 6,950 daily trips (that is, 7,300 total two way trips minus 350 employee two way trips).

Since none of the employee-generated trips will be "pass-by" trips, the total number of "pass-by" trips on a daily basis is 955 (that is, 13.74 percent of the 6,950 daily trips made by patrons). In other words, on any given day, the percentage of Home Depot gross trips that are "pass-by" is 13.08 percent (that is, 955 "pass-by" trips of the 7,300 total trips).

It is also assumed that none of the employees make their trips during the adjacent street peak periods. Hence, the percentage of Home Depot gross morning peak-hour trips that are "pass-by" is 14.65 percent, while the percentage of Home Depot gross evening peak-hour trips that are "pass-by" is 24.91 percent.

CONCLUSIONS

1) For the purposes of the traffic impact fee, the daily trip generation of a Home Depot store with garden center should be discounted by 13 percent to reflect "pass-by" trips (that is, trips that are already on the adjacent roadway network).

2) For the purposes of the traffic impact analysis trip generation and assignment, the following "pass-by" reductions should be made:

   - Gross daily trips generated by a Home Depot with garden center should be reduced by 13 percent.
   - Gross morning peak-hour trips generated by a Home Depot with garden center

should be reduced by 15 percent.[1]

- Gross evening peak-hour trips generated by a Home Depot with garden center should be reduced by 25 percent.[1]
- Gross Saturday midday peak-hour trips generated by a Home Depot with garden center should be reduced by 13 percent.[2]

We are requesting your concurrence with these reductions in gross trips generated by Home Depot so that we can continue with the traffic impact analysis. If you have any questions regarding the above analysis and conclusions, please give me call.

Thank you.

Sincerely,
BARTON-ASCHMAN ASSOCIATES, INC.

Tijana Stojsic Hamilton, P.E.
Senior Associate

attachments

APPROVED BY:

James D. Otterson, P.E.
City Traffic Engineer
City of Huntington Beach

[1]At the driveways, the gross number of trips generated by Home Depot during the peak-hour periods will be assigned. Appropriate adjustments will be made to traffic volumes on the adjacent roadways to reflect the diversion of "pass-by" trips from the adjacent traffic stream.

[2]"Pass-by" surveys were not conducted during a Saturday peak period. In an effort to be conservative, it is suggested that the average daily reduction of 13 percent be used for the Saturday peak hour.

INTERVIEW QUESTIONNAIRE

Good morning/afternoon/evening.

In order to serve you better, Home Depot is conducting this survey, which will only take a few minutes of your time.

Could you please answer the following questions.

Q1. When you drove to Home Depot, where did you come from?

HOME/ WORK/ OTHER

Q2. When you drive away from Home Depot, are you going back to where you just came from ?

YES (Must be the same as the answer to Q1)/ NO

IF ANSWER IS YES; INTERVIEW IS COMPLETE. IF THE ANSWER IS NO, ASK Q3.

Q3. Would you have driven on the same streets on your way to your next destination even if you had not stopped at Home Depot?

YES/ NO

INTERVIEW IS COMPLETE.

RESULTS OF THE HOME DEPOT "PASS-BY" SURVEYS

	Daily			AM Peak Hour Period			PM Peak Hour Period		
	Number of Survey	# of YES's to Q3	% of YES's to Q3	Number of Survey	# of YES's to Q3	% of YES's to Q3	Number of Survey	# of YES's to Q3	% of YES's to Q3
Santa Ana Store	719	95	13.21	111	10	9.01	132	45	34.09
Orange Store	728	111	15.25	96	20	20.83	92	18	19.57
North Hollywood	373	44	11.8	66	10	15.15	53	6	11.32

Weighted Average "Pass-By" Trip Percentage :

Daily $\frac{13.21(719) + 15.25(728) + 11.80(373)}{719 + 728 + 373} =$ 13.74%

AM Pk Hr $\frac{9.01(111) + 20.83(96) + 15.15(66)}{111 + 96 + 66} =$ 14.65%

PM Pk Hr $\frac{34.09(132) + 19.57(92) + 11.32(53)}{132 + 92 + 53} =$ 24.91%

APPENDIX F

EXISTING PLUS PROJECT LEVEL OF SERVICE WORKSHEETS

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Studebaker Rd/SR-22 WB Ramps

Cycle (sec): 100 Critical Vol./Cap. (X): 0.663
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 55 Level Of Service: B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	725	41	79	852	0	0	0	0	644	0	559
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:	0	725	41	79	852	0	0	0	0	644	0	559
Added Vol:	0	22	9	0	26	0	0	0	0	20	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	747	50	79	878	0	0	0	0	664	0	559
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	747	0	79	878	0	0	0	0	664	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	747	0	79	878	0	0	0	0	664	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	747	0	79	878	0	0	0	0	664	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	2880	0	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.23	0.00	0.05	0.27	0.00	0.00	0.00	0.00	0.23	0.00	0.00
Crit Moves:		****		****						****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Studebaker Rd/SR-22 WB Ramps

Cycle (sec): 100 Critical Vol./Cap. (X): 0.989
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 167 Level Of Service: E

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0 2	0 1		1 0 2	0 0		0 0 0	0 0		2 0 0	0 1	
Volume Module:												
Base Vol:	0	941	56	73	1375	0	0	0	0	1110	0	320
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:	0	941	56	73	1375	0	0	0	0	1110	0	320
Added Vol:	0	43	19	0	41	0	0	0	0	31	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	984	75	73	1416	0	0	0	0	1141	0	320
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	984	0	73	1416	0	0	0	0	1141	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	984	0	73	1416	0	0	0	0	1141	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	984	0	73	1416	0	0	0	0	1141	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	2880	0	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.31	0.00	0.05	0.44	0.00	0.00	0.00	0.00	0.40	0.00	0.00
Crit Moves:	****				****					****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #2 Studebaker Rd/SR-22 EB Ramps

Cycle (sec): 100 Critical Vol./Cap. (X): 0.570
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 47 Level Of Service: A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	710	1351	194	1263	0	0	0	0	20	0	107
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:	0	710	1351	194	1263	0	0	0	0	20	0	107
Added Vol:	0	31	16	0	46	0	0	0	0	11	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	741	1367	194	1309	0	0	0	0	31	0	107
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	741	0	194	1309	0	0	0	0	31	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	741	0	194	1309	0	0	0	0	31	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	741	0	194	1309	0	0	0	0	31	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	2880	0	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.23	0.00	0.12	0.41	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Crit Moves:	****				****					****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #2 Studebaker Rd/SR-22 EB Ramps

Cycle (sec): 100 Critical Vol./Cap. (X): 0.847
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 89 Level Of Service: D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	871	1074	376	2099	0	0	0	0	36	0	112
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:	0	871	1074	376	2099	0	0	0	0	36	0	112
Added Vol:	0	62	32	0	72	0	0	0	0	18	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	933	1106	376	2171	0	0	0	0	54	0	112
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	933	0	376	2171	0	0	0	0	54	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	933	0	376	2171	0	0	0	0	54	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	933	0	376	2171	0	0	0	0	54	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	2880	0	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.29	0.00	0.24	0.68	0.00	0.00	0.00	0.00	0.02	0.00	0.00
Crit Moves:	****				****					****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #3 Studebaker Road/AES Plant Driveway

Cycle (sec): 100 Critical Vol./Cap. (X): 0.626
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 46 Level Of Service: B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	0 0	1 0	0
Volume Module:												
Base Vol:	0	1533	2	12	1202	0	0	0	0	5	0	2
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:	0	1533	2	12	1202	0	0	0	0	5	0	2
Added Vol:	0	47	0	0	57	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	1580	2	12	1259	0	0	0	0	5	0	2
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:	0	1580	2	12	1259	0	0	0	0	5	0	2
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1580	2	12	1259	0	0	0	0	5	0	2
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 Vol.:	0	1580	2	12	1259	0	0	0	0	5	0	2
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	0.71	0.00	0.29
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	1143	0	457
Capacity Analysis Module:												
Vol/Sat:	0.00	0.49	0.00	0.01	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crit Moves:		****		****						****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #3 Studebaker Road/AES Plant Driveway

Cycle (sec): 100 Critical Vol./Cap. (X): 0.762
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 64 Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	0 0	1! 0	0
Volume Module:												
Base Vol:	0	1936	9	1	1930	0	0	0	0	10	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:	0	1936	9	1	1930	0	0	0	0	10	0	7
Added Vol:	0	95	0	0	90	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	2031	9	1	2020	0	0	0	0	10	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:	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:	0	2031	9	1	2020	0	0	0	0	10	0	7
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	2031	9	1	2020	0	0	0	0	10	0	7
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 Vol.:	0	2031	9	1	2020	0	0	0	0	10	0	7
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	0.59	0.00	0.41
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	941	0	659
Capacity Analysis Module:												
Vol/Sat:	0.00	0.63	0.01	0.00	0.63	0.00	0.00	0.00	0.00	0.01	0.00	0.01
Crit Moves:	****				****					****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Studebaker Rd/Loynes Dr

Cycle (sec):	100	Critical Vol./Cap. (X):	0.685
Loss Time (sec):	16 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	60	Level Of Service:	B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Prot+Permit			Prot+Permit			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	2 0	1 0	1	1 0	1 0	1
Volume Module:												
Base Vol:	30	1829	0	0	957	219	246	0	50	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:	30	1829	0	0	957	219	246	0	50	0	0	0
Added Vol:	0	10	25	57	0	0	0	41	0	27	34	35
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	30	1839	25	57	957	219	246	41	50	27	34	35
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:	30	1839	25	57	957	219	246	41	50	27	34	35
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	30	1839	25	57	957	219	246	41	50	27	34	35
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 Vol.:	30	1839	25	57	957	219	246	41	50	27	34	35
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00
Final Sat.:	1600	4800	1600	1600	3200	1600	2880	1600	1600	1600	1600	1600
Capacity Analysis Module:												
Vol/Sat:	0.02	0.38	0.02	0.04	0.30	0.14	0.09	0.03	0.03	0.02	0.02	0.02
Crit Moves:		****		****			****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Studebaker Rd/Loynes Dr

Cycle (sec): 100 Critical Vol./Cap. (X): 0.844
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 90 Level Of Service: D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Prot+Permit			Prot+Permit			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	2 0	1 0	1	1 0	1 0	1
Volume Module:												
Base Vol:	89	1645	0	0	1574	626	272	0	88	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:	89	1645	0	0	1574	626	272	0	88	0	0	0
Added Vol:	0	20	39	90	0	0	0	64	0	54	68	70
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	89	1665	39	90	1574	626	272	64	88	54	68	70
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:	89	1665	39	90	1574	626	272	64	88	54	68	70
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	89	1665	39	90	1574	626	272	64	88	54	68	70
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 Vol.:	89	1665	39	90	1574	626	272	64	88	54	68	70
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00
Final Sat.:	1600	4800	1600	1600	3200	1600	2880	1600	1600	1600	1600	1600
Capacity Analysis Module:												
Vol/Sat:	0.06	0.35	0.02	0.06	0.49	0.39	0.09	0.04	0.06	0.03	0.04	0.04
Crit Moves:	****				****		****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #5 Studebaker Rd/2nd Street

Cycle (sec): 100 Critical Vol./Cap. (X): 0.914
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 114 Level Of Service: E

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Ovl			Include			Ovl		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	0 0	0	2 0	0 0	2	2 0	2 0	0	0 0	2 0	1
Volume Module:												
Base Vol:	0	0	0	263	0	526	1353	483	0	0	615	392
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:	0	0	0	263	0	526	1353	483	0	0	615	392
Added Vol:	0	0	0	5	0	22	26	0	0	0	0	7
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Put:	0	0	0	268	0	548	1379	483	0	0	615	399
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:	0	0	0	268	0	548	1379	483	0	0	615	399
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	268	0	548	1379	483	0	0	615	399
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 Vol.:	0	0	0	268	0	548	1379	483	0	0	615	399
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	2.00	0.00	2.00	2.00	2.00	0.00	0.00	2.00	1.00
Final Sat.:	0	0	0	2880	0	3200	2880	3200	0	0	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.09	0.00	0.17	0.46	0.15	0.00	0.00	0.19	0.25
Crit Moves:				****			****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #5 Studebaker Rd/2nd Street

Cycle (sec): 100 Critical Vol./Cap. (X): 0.909
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 112 Level Of Service: E

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Ovl			Include			Ovl		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	0 0	0	2 0	0 0	2	2 0	2 0	0	0 0	2 0	1
Volume Module:												
Base Vol:	0	0	0	330	0	952	1202	468	0	0	670	433
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:	0	0	0	330	0	952	1202	468	0	0	670	433
Added Vol:	0	0	0	11	0	43	41	0	0	0	0	10
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	341	0	995	1243	468	0	0	670	443
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:	0	0	0	341	0	995	1243	468	0	0	670	443
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	341	0	995	1243	468	0	0	670	443
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 Vol.:	0	0	0	341	0	995	1243	468	0	0	670	443
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	2.00	0.00	2.00	2.00	2.00	0.00	0.00	2.00	1.00
Final Sat.:	0	0	0	2880	0	3200	2880	3200	0	0	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.12	0.00	0.31	0.43	0.15	0.00	0.00	0.21	0.28
Crit Moves:				****			****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #6 PCH/7th St

Cycle (sec): 100 Critical Vol./Cap. (X): 1.171
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: F

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	2 0	3 0	0	0 0	2 1	0	0 0	2 0	1
Volume Module:												
Base Vol:	125	1277	2	415	688	0	0	2022	152	0	1845	585
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:	125	1277	2	415	688	0	0	2022	152	0	1845	585
Added Vol:	8	8	0	3	10	0	0	3	10	0	3	3
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	133	1285	2	418	698	0	0	2025	162	0	1848	588
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:	133	1285	2	418	698	0	0	2025	162	0	1848	588
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	133	1285	2	418	698	0	0	2025	162	0	1848	588
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 Vol.:	133	1285	2	418	698	0	0	2025	162	0	1848	588
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.99	0.01	2.00	3.00	0.00	0.00	2.78	0.22	0.00	2.00	1.00
Final Sat.:	1600	4793	7	2880	4800	0	0	4444	356	0	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.08	0.27	0.27	0.15	0.15	0.00	0.00	0.46	0.46	0.00	0.58	0.37
Crit Moves:		****		****			****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #6 PCH/7th St

Cycle (sec):	100	Critical Vol./Cap. (X):	1.261
Loss Time (sec):	18 (Y-R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	180	Level Of Service:	F

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	2 0	3 0	0	0 0	2 1	0	0 0	2 0	1
Volume Module:												
Base Vol:	193	893	0	652	1191	0	0	2097	212	0	2119	438
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:	193	893	0	652	1191	0	0	2097	212	0	2119	438
Added Vol:	16	16	0	5	15	0	0	5	15	0	5	5
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	209	909	0	657	1206	0	0	2102	227	0	2124	443
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:	209	909	0	657	1206	0	0	2102	227	0	2124	443
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	209	909	0	657	1206	0	0	2102	227	0	2124	443
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 Vol.:	209	909	0	657	1206	0	0	2102	227	0	2124	443
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	0.00	2.00	3.00	0.00	0.00	2.71	0.29	0.00	2.00	1.00
Final Sat.:	1600	4800	0	2880	4800	0	0	4332	468	0	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.13	0.19	0.00	0.23	0.25	0.00	0.00	0.49	0.49	0.00	0.66	0.28
Crit Moves:		****		****			****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #7 PCH/Bellflower Blvd

Cycle (sec): 100 Critical Vol./Cap. (X): 0.692
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 64 Level Of Service: B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 1	0	1 0	2 0	1	1 1	2 0	1
Volume Module:												
Base Vol:	44	1315	423	20	815	20	119	461	19	209	127	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:	44	1315	423	20	815	20	119	461	19	209	127	0
Added Vol:	0	16	12	0	20	0	0	0	0	15	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	44	1331	435	20	835	20	119	461	19	224	127	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:	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:	44	1331	435	20	835	20	119	461	19	224	127	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	44	1331	435	20	835	20	119	461	19	224	127	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 Vol.:	44	1331	435	20	835	20	119	461	19	224	127	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.93	0.07	1.00	2.00	1.00	2.00	2.00	1.00
Final Sat.:	1600	4800	1600	1600	4686	112	1600	3200	1600	2880	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.03	0.28	0.27	0.01	0.18	0.18	0.07	0.14	0.01	0.08	0.04	0.00
Crit Moves:		****		****				****		****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #7 PCH/Bellflower Blvd

Cycle (sec): 100 Critical Vol./Cap. (X): 0.802
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 82 Level Of Service: D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 1	0	1 0	2 0	1	1 1	2 0	1
Volume Module:												
Base Vol:	134	969	382	98	1177	75	45	314	11	474	351	6
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:	134	969	382	98	1177	75	45	314	11	474	351	6
Added Vol:	0	32	24	0	31	0	0	0	0	23	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	134	1001	406	98	1208	75	45	314	11	497	351	6
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:	134	1001	406	98	1208	75	45	314	11	497	351	6
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	134	1001	406	98	1208	75	45	314	11	497	351	6
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 Vol.:	134	1001	406	98	1208	75	45	314	11	497	351	6
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.82	0.18	1.00	2.00	1.00	2.00	2.00	1.00
Final Sat.:	1600	4800	1600	1600	4519	281	1600	3200	1600	2880	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.08	0.21	0.25	0.06	0.27	0.27	0.03	0.10	0.01	0.17	0.11	0.00
Crit Moves:	****				****			****			****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #8 PCH/Loynes Dr

Cycle (sec): 100 Critical Vol./Cap. (X): 0.728
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 64 Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0 2 1 0			1 0 3 0 1			1 0 1 1 0			1 0 2 0 1		
Volume Module:												
Base Vol:	48	1770	84	34	827	19	28	177	112	93	130	70
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:	48	1770	84	34	827	19	28	177	112	93	130	70
Added Vol:	0	0	0	34	0	0	0	3	0	0	2	28
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	48	1770	84	68	827	19	28	180	112	93	132	98
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:	48	1770	84	68	827	19	28	180	112	93	132	98
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	48	1770	84	68	827	19	28	180	112	93	132	98
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 Vol.:	48	1770	84	68	827	19	28	180	112	93	132	98
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.86	0.14	1.00	3.00	1.00	1.00	1.23	0.77	1.00	2.00	1.00
Final Sat.:	1600	4583	217	1600	4800	1600	1600	1973	1227	1600	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.03	0.39	0.39	0.04	0.17	0.01	0.02	0.09	0.09	0.06	0.04	0.06
Crit Moves:		****		****				****		****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #8 PCH/Loynes Dr

Cycle (sec):	100	Critical Vol./Cap. (X):	0.816
Loss Time (sec):	15 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	81	Level Of Service:	D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	1 0	3 0	1	1 0	1 1	0	1 0	2 0	1
Volume Module:												
Base Vol:	163	1277	122	47	1690	32	31	203	103	185	322	51
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:	163	1277	122	47	1690	32	31	203	103	185	322	51
Added Vol:	0	0	0	54	0	0	0	4	0	0	4	57
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	163	1277	122	101	1690	32	31	207	103	185	326	108
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:	163	1277	122	101	1690	32	31	207	103	185	326	108
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	163	1277	122	101	1690	32	31	207	103	185	326	108
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 Vol.:	163	1277	122	101	1690	32	31	207	103	185	326	108
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.74	0.26	1.00	3.00	1.00	1.00	1.34	0.66	1.00	2.00	1.00
Final Sat.:	1600	4381	419	1600	4800	1600	1600	2137	1063	1600	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.10	0.29	0.29	0.06	0.35	0.02	0.02	0.10	0.10	0.12	0.10	0.07
Crit Moves:	****				****			****			****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #9 PCH/2nd St

Cycle (sec): 100 Critical Vol./Cap. (X): 0.903
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 112 Level Of Service: E

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	2 0	2 1	0	1 0	2 1	0	2 0	2 1	1	2 0	3 0	1
Volume Module:												
Base Vol:	497	1150	406	114	668	179	183	1117	299	251	549	168
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:	497	1150	406	114	668	179	183	1117	299	251	549	168
Added Vol:	0	0	7	0	0	0	0	20	0	5	16	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	497	1150	413	114	668	179	183	1137	299	256	565	168
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:	497	1150	413	114	668	179	183	1137	299	256	565	168
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	497	1150	413	114	668	179	183	1137	299	256	565	168
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 Vol.:	497	1150	413	114	668	179	183	1137	299	256	565	168
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	0.90	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00
Lanes:	2.00	2.21	0.79	1.00	2.37	0.63	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	2880	3532	1268	1600	3786	1014	2880	4800	1600	2880	4800	1600
Capacity Analysis Module:												
Vol/Sat:	0.17	0.33	0.33	0.07	0.18	0.18	0.06	0.24	0.19	0.09	0.12	0.11
Crit Moves:		****		****				****		****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #9 PCH/2nd St

Cycle (sec):	100	Critical Vol./Cap. (X):	1.069
Loss Time (sec):	18 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	180	Level Of Service:	F

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	2 0	2 1	0	1 0	2 1	0	2 0	2 1	1	2 0	3 0	1
Volume Module:												
Base Vol:	338	1024	361	222	1328	482	496	1311	438	321	920	271
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:	338	1024	361	222	1328	482	496	1311	438	321	920	271
Added Vol:	0	0	10	0	0	0	0	31	0	11	32	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	338	1024	371	222	1328	482	496	1342	438	332	952	271
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:	338	1024	371	222	1328	482	496	1342	438	332	952	271
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	338	1024	371	222	1328	482	496	1342	438	332	952	271
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 Vol.:	338	1024	371	222	1328	482	496	1342	438	332	952	271
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	0.90	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00
Lanes:	2.00	2.20	0.80	1.00	2.20	0.80	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	2880	3523	1277	1600	3522	1278	2880	4800	1600	2880	4800	1600
Capacity Analysis Module:												
Vol/Sat:	0.12	0.29	0.29	0.14	0.38	0.38	0.17	0.28	0.27	0.12	0.20	0.17
Crit Moves:	****				****			****		****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #11 Bixby Village/Loynes Dr

Cycle (sec): 100 Critical Vol./Cap. (X): 0.263
Loss Time (sec): 10 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 24 Level Of Service: A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Permitted			Permitted			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	1! 0	0	0 1	0 0	1	1 0	2 0	1	1 0	1 1	0
Volume Module:												
Base Vol:	26	8	23	21	5	45	26	298	12	6	246	24
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:	26	8	23	21	5	45	26	298	12	6	246	24
Added Vol:	0	0	0	4	0	0	0	37	0	0	31	3
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	26	8	23	25	5	45	26	335	12	6	277	27
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:	26	8	23	25	5	45	26	335	12	6	277	27
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	26	8	23	25	5	45	26	335	12	6	277	27
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 Vol.:	26	8	23	25	5	45	26	335	12	6	277	27
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.46	0.14	0.40	0.83	0.17	1.00	1.00	2.00	1.00	1.00	1.82	0.18
Final Sat.:	730	225	646	1333	267	1600	1600	3200	1600	1600	2916	284
Capacity Analysis Module:												
Vol/Sat:	0.02	0.04	0.04	0.02	0.02	0.03	0.02	0.10	0.01	0.00	0.10	0.09
Crit Moves:		****		****			****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #11 Bixby Village/Loynes Dr

Cycle (sec): 100 Critical Vol./Cap. (X): 0.425
Loss Time (sec): 20 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 30 Level Of Service: A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Permitted			Permitted			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	1! 0	0	0 1	0 0	1	1 0	2 0	1	1 0	1 1	0
Volume Module:												
Base Vol:	21	12	21	29	21	47	65	303	27	34	616	50
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:	21	12	21	29	21	47	65	303	27	34	616	50
Added Vol:	0	0	0	6	0	0	0	58	0	0	61	6
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	21	12	21	35	21	47	65	361	27	34	677	56
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:	21	12	21	35	21	47	65	361	27	34	677	56
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	21	12	21	35	21	47	65	361	27	34	677	56
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 Vol.:	21	12	21	35	21	47	65	361	27	34	677	56
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.39	0.22	0.39	0.62	0.38	1.00	1.00	2.00	1.00	1.00	1.85	0.15
Final Sat.:	622	356	622	1000	600	1600	1600	3200	1600	1600	2956	244
Capacity Analysis Module:												
Vol/Sat:	0.01	0.03	0.03	0.02	0.04	0.03	0.04	0.11	0.02	0.02	0.23	0.23
Crit Moves:		****		****			****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #100 PCH/Studebaker Rd

Cycle (sec): 100 Critical Vol./Cap. (X): 0.810
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 79 Level Of Service: D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	1 1	0 0	1	0 0	1! 0	0
Volume Module:												
Base Vol:	76	2216	17	8	1352	65	58	11	293	6	2	1
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:	76	2216	17	8	1352	65	58	11	293	6	2	1
Added Vol:	0	7	0	0	5	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	76	2223	17	8	1357	65	58	11	293	6	2	1
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:	76	2223	17	8	1357	65	58	11	293	6	2	1
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	76	2223	17	8	1357	65	58	11	293	6	2	1
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 Vol.:	76	2223	17	8	1357	65	58	11	293	6	2	1
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	1.68	0.32	1.00	0.67	0.22	0.11
Final Sat.:	1600	4800	1600	1600	3200	1600	2690	510	1600	1067	356	178
Capacity Analysis Module:												
Vol/Sat:	0.05	0.46	0.01	0.01	0.42	0.04	0.02	0.02	0.18	0.01	0.01	0.01
Crit Moves:	****				****				****	****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #100 PCH/Studebaker Rd

Cycle (sec): 100 Critical Vol./Cap. (X): 1.148
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: F

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	1 1	0 0	1	0 0	1! 0	0
Volume Module:												
Base Vol:	147	1470	18	19	1892	66	194	13	377	71	32	18
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:	147	1470	18	19	1892	66	194	13	377	71	32	18
Added Vol:	0	10	0	0	11	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	147	1480	18	19	1903	66	194	13	377	71	32	18
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:	147	1480	18	19	1903	66	194	13	377	71	32	18
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	147	1480	18	19	1903	66	194	13	377	71	32	18
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 Vol.:	147	1480	18	19	1903	66	194	13	377	71	32	18
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	1.87	0.13	1.00	0.59	0.26	0.15
Final Sat.:	1600	4800	1600	1600	3200	1600	2999	201	1600	939	423	238
Capacity Analysis Module:												
Vol/Sat:	0.09	0.31	0.01	0.01	0.59	0.04	0.06	0.06	0.24	0.08	0.08	0.08
Crit Moves:	****				****				****			****

APPENDIX G

CUMULATIVE PLUS PROJECT LEVEL OF SERVICE WORKSHEETS

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

****

Intersection #1 Studebaker Rd/SR-22 WB Ramps

****

Cycle (sec): 100 Critical Vol./Cap. (X): 0.725
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 63 Level Of Service: C

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	725	41	79	852	0	0	0	0	644	0	559
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	744	42	81	874	0	0	0	0	661	0	574
Added Vol:	0	31	9	0	40	0	0	0	0	30	0	0
PasserByVol:	0	1	0	0	2	0	0	0	0	120	0	0
Initial Fut:	0	776	51	81	916	0	0	0	0	811	0	574
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	776	0	81	916	0	0	0	0	811	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	776	0	81	916	0	0	0	0	811	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	776	0	81	916	0	0	0	0	811	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	2880	0	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.24	0.00	0.05	0.29	0.00	0.00	0.00	0.00	0.28	0.00	0.00
Crit Moves:		****		****						****		

****

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

****

Intersection #1 Studebaker Rd/SR-22 WB Ramps

****

Cycle (sec): 100 Critical Vol./Cap. (X): 1.045
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: F

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	941	56	73	1375	0	0	0	0	1110	0	320
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	965	57	75	1411	0	0	0	0	1139	0	328
Added Vol:	0	90	19	0	84	0	0	0	0	63	0	0
PasserByVol:	0	2	0	0	2	0	0	0	0	30	0	0
Initial Fut:	0	1057	76	75	1497	0	0	0	0	1232	0	328
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	1057	0	75	1497	0	0	0	0	1232	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1057	0	75	1497	0	0	0	0	1232	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	1057	0	75	1497	0	0	0	0	1232	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	2880	0	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.33	0.00	0.05	0.47	0.00	0.00	0.00	0.00	0.43	0.00	0.00
Crit Moves:	****				****					****		

****

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

****

Intersection #2 Studebaker Rd/SR-22 EB Ramps

****

Cycle (sec): 100 Critical Vol./Cap. (X): 0.626
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 52 Level Of Service: B

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	710	1351	194	1263	0	0	0	0	20	0	107
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	728	1386	199	1296	0	0	0	0	21	0	110
Added Vol:	0	40	23	0	71	0	0	0	0	11	0	0
PasserByVol:	0	1	24	0	121	0	0	0	0	0	0	0
Initial Fut:	0	769	1433	199	1488	0	0	0	0	32	0	110
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	769	0	199	1488	0	0	0	0	32	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	769	0	199	1488	0	0	0	0	32	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	769	0	199	1488	0	0	0	0	32	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	2880	0	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.24	0.00	0.12	0.46	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Crit Moves:	****				****					****		

****

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #2 Studebaker Rd/SR-22 EB Ramps

Cycle (sec): 100 Critical Vol./Cap. (X): 0.898
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 107 Level Of Service: D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	871	1074	376	2099	0	0	0	0	36	0	112
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	894	1102	386	2154	0	0	0	0	37	0	115
Added Vol:	0	109	68	0	148	0	0	0	0	18	0	0
PasserByVol:	0	2	129	0	32	0	0	0	0	0	0	0
Initial Fut:	0	1005	1299	386	2334	0	0	0	0	55	0	115
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	1005	0	386	2334	0	0	0	0	55	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1005	0	386	2334	0	0	0	0	55	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	1005	0	386	2334	0	0	0	0	55	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	2880	0	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.31	0.00	0.24	0.73	0.00	0.00	0.00	0.00	0.02	0.00	0.00
Crit Moves:	****				****					****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

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Intersection #3 Studebaker Road/AES Plant Driveway

****

Cycle (sec): 100 Critical Vol./Cap. (X): 0.651
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 49 Level Of Service: B

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	0 0	1! 0	0
Volume Module:												
Base Vol:	0	1533	2	12	1202	0	0	0	0	5	0	2
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	1573	2	12	1233	0	0	0	0	5	0	2
Added Vol:	0	63	0	0	82	0	0	0	0	0	0	0
PasserByVol:	0	25	0	0	81	0	0	0	0	0	0	0
Initial Fut:	0	1661	2	12	1396	0	0	0	0	5	0	2
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:	0	1661	2	12	1396	0	0	0	0	5	0	2
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1661	2	12	1396	0	0	0	0	5	0	2
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 Vol.:	0	1661	2	12	1396	0	0	0	0	5	0	2
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	0.71	0.01	0.28
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	1143	0	457
Capacity Analysis Module:												
Vol/Sat:	0.00	0.52	0.00	0.01	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crit Moves:		****		****						****		

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Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

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Intersection #3 Studebaker Road/AES Plant Driveway

****

Cycle (sec):	100	Critical Vol./Cap. (X):	0.849
Loss Time (sec):	12 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	84	Level Of Service:	D

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	2	1 0	2 0	0	0 0	0 0	0	0 0	1! 0	0
Volume Module:												
Base Vol:	0	1936	9	1	1930	0	0	0	0	10	0	7
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	1986	9	1	1980	0	0	0	0	10	0	7
Added Vol:	0	176	0	0	166	0	0	0	0	0	0	0
PasserByVol:	0	132	0	0	32	0	0	0	0	0	0	0
Initial Fut:	0	2294	9	1	2178	0	0	0	0	10	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:	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:	0	2294	9	1	2178	0	0	0	0	10	0	7
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	2294	9	1	2178	0	0	0	0	10	0	7
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 Vol.:	0	2294	9	1	2178	0	0	0	0	10	0	7
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	0.59	0.00	0.41
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	941	0	659
Capacity Analysis Module:												
Vol/Sat:	0.00	0.72	0.01	0.00	0.68	0.00	0.00	0.00	0.00	0.01	0.00	0.01
Crit Moves:		****		****						****		

****

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Studebaker Rd/Loynes Dr

Cycle (sec): 100 Critical Vol./Cap. (X): 0.673
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 58 Level Of Service: B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Prot+Permit			Prot+Permit			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	2 0	1 0	1	1 0	1 0	1
Volume Module:												
Base Vol:	30	1829	0	0	957	219	246	0	50	0	0	0
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	31	1877	0	0	982	225	252	0	51	0	0	0
Added Vol:	0	26	25	57	25	0	0	41	0	27	34	35
PasserByVol:	-66	21	4	-56	71	0	-6	7	-1	5	6	6
Initial Fut:	-35	1924	29	1	1078	225	246	48	50	32	40	41
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:	-35	1924	29	1	1078	225	246	48	50	32	40	41
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1924	29	1	1078	225	246	48	50	32	40	41
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 Vol.:	0	1924	29	1	1078	225	246	48	50	32	40	41
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00
Final Sat.:	1600	4800	1600	1600	3200	1600	2880	1600	1600	1600	1600	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.40	0.02	0.00	0.34	0.14	0.09	0.03	0.03	0.02	0.03	0.03
Crit Moves:		****		****			****					****

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Studebaker Rd/Loynes Dr

Cycle (sec):	100	Critical Vol./Cap. (X):	0.858
Loss Time (sec):	16 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	94	Level Of Service:	D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Prot+Permit			Prot+Permit			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	2 0	1 0	1	1 0	1 0	1
Volume Module:												
Base Vol:	89	1645	0	0	1574	626	272	0	88	0	0	0
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	91	1688	0	0	1615	642	279	0	90	0	0	0
Added Vol:	0	101	39	90	76	0	0	64	0	54	68	70
PasserByVol:	-54	119	13	-24	-2	0	-17	22	-5	18	22	24
Initial Fut:	37	1908	52	66	1689	642	262	86	85	72	90	94
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:	37	1908	52	66	1689	642	262	86	85	72	90	94
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	37	1908	52	66	1689	642	262	86	85	72	90	94
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 Vol.:	37	1908	52	66	1689	642	262	86	85	72	90	94
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00
Final Sat.:	1600	4800	1600	1600	3200	1600	2880	1600	1600	1600	1600	1600
Capacity Analysis Module:												
Vol/Sat:	0.02	0.40	0.03	0.04	0.53	0.40	0.09	0.05	0.05	0.05	0.06	0.06
Crit Moves:	****				****		****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

****

Intersection #5 Studebaker Rd/2nd Street

****

Cycle (sec):	100	Critical Vol./Cap. (X):	0.975
Loss Time (sec):	15 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	155	Level Of Service:	E

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Ovl			Include			Ovl		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	0 0	0	2 0	0 0	2	2 0	2 0	0	0 0	2 0	1
Volume Module:												
Base Vol:	0	0	0	263	0	526	1353	483	0	0	615	392
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	0	0	270	0	540	1388	496	0	0	631	402
Added Vol:	0	0	0	5	0	46	42	2	0	0	4	7
PasserByVol:	0	0	0	81	0	0	0	103	0	0	22	25
Initial Fut:	0	0	0	356	0	586	1430	601	0	0	657	434
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:	0	0	0	356	0	586	1430	601	0	0	657	434
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	356	0	586	1430	601	0	0	657	434
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 Vol.:	0	0	0	356	0	586	1430	601	0	0	657	434
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	2.00	0.00	2.00	2.00	2.00	0.00	0.00	2.00	1.00
Final Sat.:	0	0	0	2880	0	3200	2880	3200	0	0	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.12	0.00	0.18	0.50	0.19	0.00	0.00	0.21	0.27
Crit Moves:				****			****				****	

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Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

****

Intersection #5 Studebaker Rd/2nd Street

****

Cycle (sec): 100 Critical Vol./Cap. (X): 1.002
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: F

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Ovl			Include			Ovl		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	0 0	0	2 0	0 0	2	2 0	2 0	0	0 0	2 0	1
Volume Module:												
Base Vol:	0	0	0	330	0	952	1202	468	0	0	670	433
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	0	0	339	0	977	1233	480	0	0	687	444
Added Vol:	0	0	0	11	0	119	123	12	0	0	11	10
PasserByVol:	0	0	0	26	0	0	0	42	0	0	104	132
Initial Fut:	0	0	0	376	0	1096	1356	534	0	0	802	586
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:	0	0	0	376	0	1096	1356	534	0	0	802	586
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	376	0	1096	1356	534	0	0	802	586
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 Vol.:	0	0	0	376	0	1096	1356	534	0	0	802	586
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	2.00	0.00	2.00	2.00	2.00	0.00	0.00	2.00	1.00
Final Sat.:	0	0	0	2880	0	3200	2880	3200	0	0	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.13	0.00	0.34	0.47	0.17	0.00	0.00	0.25	0.37
Crit Moves:				****			****				****	

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Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

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Intersection #6 PCH/7th St

****

Cycle (sec): 100 Critical Vol./Cap. (X): 1.201
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: F

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	2 0	3 0	0	0 0	2 1	0	0 0	2 0	1
Volume Module:												
Base Vol:	125	1277	2	415	688	0	0	2022	152	0	1845	585
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	128	1310	2	426	706	0	0	2075	156	0	1893	600
Added Vol:	13	13	0	3	17	0	0	3	17	0	3	3
PasserByVol:	7	17	0	0	84	0	0	0	36	0	0	0
Initial Fut:	148	1340	2	429	807	0	0	2078	209	0	1896	603
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:	148	1340	2	429	807	0	0	2078	209	0	1896	603
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	148	1340	2	429	807	0	0	2078	209	0	1896	603
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 Vol.:	148	1340	2	429	807	0	0	2078	209	0	1896	603
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.99	0.01	2.00	3.00	0.00	0.00	2.73	0.27	0.00	2.00	1.00
Final Sat.:	1600	4793	7	2880	4800	0	0	4361	439	0	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.09	0.28	0.28	0.15	0.17	0.00	0.00	0.48	0.48	0.00	0.59	0.38
Crit Moves:		****		****			****				****	

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Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

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Intersection #6 PCH/7th St

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Cycle (sec): 100 Critical Vol./Cap. (X): 1.313
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: F

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:		Include			Include			Include			Include	
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	2 0	3 0	0	0 0	2 1	0	0 0	2 0	1
Volume Module:												
Base Vol:	193	893	0	652	1191	0	0	2097	212	0	2119	438
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	198	916	0	669	1222	0	0	2152	218	0	2174	449
Added Vol:	40	40	0	5	37	0	0	5	37	0	5	5
PasserByVol:	39	91	0	0	22	0	0	0	9	0	0	0
Initial Fut:	277	1047	0	674	1281	0	0	2157	264	0	2179	454
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:	277	1047	0	674	1281	0	0	2157	264	0	2179	454
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	277	1047	0	674	1281	0	0	2157	264	0	2179	454
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 Vol.:	277	1047	0	674	1281	0	0	2157	264	0	2179	454
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	0.00	2.00	3.00	0.00	0.00	2.67	0.33	0.00	2.00	1.00
Final Sat.:	1600	4800	0	2880	4800	0	0	4277	523	0	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.17	0.22	0.00	0.23	0.27	0.00	0.00	0.50	0.50	0.00	0.68	0.28
Crit Moves:		****		****			****				****	

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Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #7 PCH/Bellflower Blvd

Cycle (sec):	100	Critical Vol./Cap. (X):	0.715
Loss Time (sec):	18 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	67	Level Of Service:	C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 1	0	1 0	2 0	1	1 1	2 0	1
Volume Module:												
Base Vol:	44	1315	423	20	815	20	119	461	19	209	127	0
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	45	1349	434	21	836	21	122	473	19	214	130	0
Added Vol:	0	25	19	0	34	0	0	0	0	25	0	0
PasserByVol:	0	24	0	0	120	0	0	0	0	0	0	0
Initial Fut:	45	1398	453	21	990	21	122	473	19	239	130	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:	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:	45	1398	453	21	990	21	122	473	19	239	130	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	45	1398	453	21	990	21	122	473	19	239	130	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 Vol.:	45	1398	453	21	990	21	122	473	19	239	130	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.94	0.06	1.00	2.00	1.00	2.00	2.00	1.00
Final Sat.:	1600	4800	1600	1600	4703	97	1600	3200	1600	2880	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.03	0.29	0.28	0.01	0.21	0.21	0.08	0.15	0.01	0.08	0.04	0.00
Crit Moves:		****		****				****		****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #7 PCH/Bellflower Blvd

Cycle (sec): 100 Critical Vol./Cap. (X): 0.844
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 93 Level Of Service: D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 1	0	1 0	2 0	1	1 1	2 0	1
Volume Module:												
Base Vol:	134	969	382	98	1177	75	45	314	11	474	351	6
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	137	994	392	101	1208	77	46	322	11	486	360	6
Added Vol:	0	79	59	0	74	0	0	0	0	56	0	0
PasserByVol:	0	130	0	0	31	0	0	0	0	0	0	0
Initial Fut:	137	1203	451	101	1313	77	46	322	11	542	360	6
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:	137	1203	451	101	1313	77	46	322	11	542	360	6
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	137	1203	451	101	1313	77	46	322	11	542	360	6
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 Vol.:	137	1203	451	101	1313	77	46	322	11	542	360	6
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.83	0.17	1.00	2.00	1.00	2.00	2.00	1.00
Final Sat.:	1600	4800	1600	1600	4534	266	1600	3200	1600	2880	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.09	0.25	0.28	0.06	0.29	0.29	0.03	0.10	0.01	0.19	0.11	0.00
Crit Moves:	****				****			****			****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

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Intersection #8 PCH/Loynes Dr

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Cycle (sec): 100 Critical Vol./Cap. (X): 0.753
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 68 Level Of Service: C

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	1 0	3 0	1	1 0	1	1 0	1 0	2 0	1
Volume Module:												
Base Vol:	48	1770	84	34	827	19	28	177	112	93	130	70
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	49	1816	86	35	849	19	29	182	115	95	133	72
Added Vol:	1	16	1	34	25	0	0	3	1	2	2	28
PasserByVol:	0	24	0	0	120	0	0	0	0	0	0	0
Initial Fut:	50	1856	87	69	994	19	29	185	116	97	135	100
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:	50	1856	87	69	994	19	29	185	116	97	135	100
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	50	1856	87	69	994	19	29	185	116	97	135	100
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 Vol.:	50	1856	87	69	994	19	29	185	116	97	135	100
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.87	0.13	1.00	3.00	1.00	1.00	1.23	0.77	1.00	2.00	1.00
Final Sat.:	1600	4585	215	1600	4800	1600	1600	1966	1234	1600	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.03	0.40	0.40	0.04	0.21	0.01	0.02	0.09	0.09	0.06	0.04	0.06
Crit Moves:		****		****				****		****		

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Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #8 PCH/Loynes Dr

Cycle (sec): 100 Critical Vol./Cap. (X): 0.864
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 94 Level Of Service: D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	1 0	3 0	1	1 0	1 1	0	1 0	2 0	1
Volume Module:												
Base Vol:	163	1277	122	47	1690	32	33	203	103	185	322	51
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	167	1310	125	48	1734	33	32	208	106	190	330	52
Added Vol:	5	82	7	54	76	0	0	4	4	6	4	57
PasserByVol:	0	130	0	0	31	0	0	0	0	0	0	0
Initial Fut:	172	1522	132	102	1841	33	32	212	110	196	334	109
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:	172	1522	132	102	1841	33	32	212	110	196	334	109
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	172	1522	132	102	1841	33	32	212	110	196	334	109
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 Vol.:	172	1522	132	102	1841	33	32	212	110	196	334	109
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.76	0.24	1.00	3.00	1.00	1.00	1.32	0.68	1.00	2.00	1.00
Final Sat.:	1600	4417	383	1600	4800	1600	1600	2110	1090	1600	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.11	0.34	0.34	0.06	0.38	0.02	0.02	0.10	0.10	0.12	0.10	0.07
Crit Moves:	****				****			****			****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #9 PCH/2nd St

Cycle (sec): 100 Critical Vol./Cap. (X): 0.941
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 131 Level Of Service: E

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L - T - R			L - T - R			L - T - R			L - T - R		
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	2 0	2 1	0	2 0	3 0	1	2 0	2 1	1	2 0	3 0	1
Volume Module:												
Base Vol:	497	1150	406	114	668	179	183	1117	299	251	549	168
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	510	1180	417	117	685	184	188	1146	307	258	563	172
Added Vol:	7	18	25	0	28	0	0	20	11	34	16	0
PasserByVol:	1	9	0	80	40	0	0	24	8	0	11	13
Initial Fut:	518	1207	442	197	753	184	188	1190	326	292	590	185
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:	518	1207	442	197	753	184	188	1190	326	292	590	185
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	518	1207	442	197	753	184	188	1190	326	292	590	185
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 Vol.:	518	1207	442	197	753	184	188	1190	326	292	590	185
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	0.90	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00
Lanes:	2.00	2.20	0.80	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	2880	3514	1286	2880	4800	1600	2880	4800	1600	2880	4800	1600
Capacity Analysis Module:												
Vol/Sat:	0.18	0.34	0.34	0.07	0.16	0.11	0.07	0.25	0.20	0.10	0.12	0.12
Crit Moves:		****		****				****		****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

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Intersection #9 PCH/2nd St

****

Cycle (sec): 100 Critical Vol./Cap. (X): 1.066
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: F

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	2 0	2 1	0	2 0	3 0	1	2 0	2 1	1	2 0	3 0	1
Volume Module:												
Base Vol:	338	1024	361	222	1328	482	496	1311	438	321	929	271
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	347	1051	370	228	1363	495	509	1345	449	329	944	278
Added Vol:	35	94	104	0	86	0	0	31	32	97	32	0
PasserByVol:	9	53	0	25	6	0	0	17	1	0	27	76
Initial Fut:	391	1198	474	253	1455	495	509	1393	482	426	1003	354
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:	391	1198	474	253	1455	495	509	1393	482	426	1003	354
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	391	1198	474	253	1455	495	509	1393	482	426	1003	354
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 Vol.:	391	1198	474	253	1455	495	509	1393	482	426	1003	354
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	0.90	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00
Lanes:	2.00	2.15	0.85	2.00	3.00	1.00	2.00	2.97	1.03	2.00	3.00	1.00
Final Sat.:	2880	3438	1362	2880	4800	1600	2880	4754	1646	2880	4800	1600
Capacity Analysis Module:												
Vol/Sat:	0.14	0.35	0.35	0.09	0.30	0.31	0.18	0.29	0.29	0.15	0.21	0.22
Crit Moves:	****					****		****		****		

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Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

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Intersection #11 Bixby Village/Loynes Dr

****

Cycle (sec): 100 Critical Vol./Cap. (X): 0.267
Loss Time (sec): 10 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 24 Level Of Service: A

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Permitted			Permitted			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	1! 0	0	0 1	0 0	1	1 0	2 0	1	1 0	1 1	0
Volume Module:												
Base Vol:	26	8	23	21	5	45	26	298	12	6	246	24
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	27	8	24	22	5	46	27	306	12	6	252	25
Added Vol:	0	0	0	4	0	2	1	37	0	0	31	3
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	27	8	24	26	5	48	28	343	12	6	283	28
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:	27	8	24	26	5	48	28	343	12	6	283	28
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	27	8	24	26	5	48	28	343	12	6	283	28
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 Vol.:	27	8	24	26	5	48	28	343	12	6	283	28
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.46	0.14	0.40	0.83	0.17	1.00	1.00	2.00	1.00	1.00	1.82	0.18
Final Sat.:	730	225	646	1332	268	1600	1600	3200	1600	1600	2916	284
Capacity Analysis Module:												
Vol/Sat:	0.02	0.04	0.04	0.02	0.02	0.03	0.02	0.11	0.01	0.00	0.10	0.10
Crit Moves:		****		****			****				****	

****

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #11 Bixby Village/Loynes Dr

Cycle (sec): 100 Critical Vol./Cap. (X): 0.438
Loss Time (sec): 10 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 30 Level Of Service: A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Permitted			Permitted			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	1! 0	0	0 1	0 0	1	1 0	2 0	1	1 0	1 1	0
Volume Module:												
Base Vol:	21	12	21	29	21	47	65	303	27	34	616	50
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	22	12	22	30	22	48	67	311	28	35	632	51
Added Vol:	0	0	0	6	0	6	7	58	0	0	61	6
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	22	12	22	36	22	54	74	369	28	35	693	57
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:	22	12	22	36	22	54	74	369	28	35	693	57
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	22	12	22	36	22	54	74	369	28	35	693	57
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 Vol.:	22	12	22	36	22	54	74	369	28	35	693	57
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.39	0.22	0.39	0.62	0.38	1.00	1.00	2.00	1.00	1.00	1.85	0.15
Final Sat.:	622	356	622	998	602	1600	1600	3200	1600	1600	2956	244
Capacity Analysis Module:												
Vol/Sat:	0.01	0.03	0.03	0.02	0.04	0.03	0.05	0.12	0.02	0.02	0.23	0.23
Crit Moves:		****		****			****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #100 PCH/Studebaker Rd

Cycle (sec):	100	Critical Vol./Cap. (X):	0.896
Loss Time (sec):	15 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	106	Level Of Service:	D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	1 1	0 0	1	0 0	1 0	0
Volume Module:												
Base Vol:	76	2216	17	8	1352	65	58	11	293	6	2	1
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	78	2274	17	8	1387	67	60	11	301	6	2	1
Added Vol:	0	7	4	67	5	0	0	0	0	2	0	43
PasserByVol:	0	10	0	0	8	0	0	0	0	0	0	0
Initial Fut:	78	2291	21	75	1400	67	60	11	301	8	2	44
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:	78	2291	21	75	1400	67	60	11	301	8	2	44
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	78	2291	21	75	1400	67	60	11	301	8	2	44
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 Vol.:	78	2291	21	75	1400	67	60	11	301	8	2	44
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	1.68	0.32	1.00	0.15	0.04	0.81
Final Sat.:	1600	4800	1600	1600	3200	1600	2690	510	1600	241	61	1299
Capacity Analysis Module:												
Vol/Sat:	0.05	0.48	0.01	0.05	0.44	0.04	0.02	0.02	0.19	0.03	0.03	0.03
Crit Moves:		****		****					****			****

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #100 PCH/Studebaker Rd

Cycle (sec): 100 Critical Vol./Cap. (X): 1.322
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: F

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	1 1	0 0	1	0 0	1! 0	0
Volume Module:												
Base Vol:	147	1470	18	19	1892	66	194	13	377	71	32	18
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	151	1508	18	19	1941	68	199	13	387	73	33	18
Added Vol:	0	10	11	205	11	0	0	0	0	12	0	222
PasserByVol:	0	62	0	0	7	0	0	0	0	0	0	0
Initial Fut:	151	1580	29	224	1959	68	199	13	387	85	33	240
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:	151	1580	29	224	1959	68	199	13	387	85	33	240
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	151	1580	29	224	1959	68	199	13	387	85	33	240
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 Vol.:	151	1580	29	224	1959	68	199	13	387	85	33	240
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	1.87	0.13	1.00	0.24	0.09	0.67
Final Sat.:	1600	4800	1600	1600	3200	1600	2999	201	1600	379	147	1074
Capacity Analysis Module:												
Vol/Sat:	0.09	0.33	0.02	0.14	0.61	0.04	0.07	0.07	0.24	0.22	0.22	0.22
Crit Moves:	****				****				****			****

APPENDIX H

EXISTING, EXISTING PLUS PROJECT, CUMULATIVE, AND CUMULATIVE PLUS PROJECT WEEKEND LEVEL OF SERVICE WORKSHEETS

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #1 Studebaker Rd/SR-22 WB Ramps

Cycle (sec): 100 Critical Vol./Cap. (X): 0.678
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 57 Level Of Service: B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0 2 0 1			1 0 2 0 0			0 0 0 0 0			2 0 0 0 1		
Volume Module:												
Base Vol:	0	465	37	56	706	0	0	0	0	886	0	1
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:	0	465	37	56	706	0	0	0	0	886	0	1
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	465	0	56	706	0	0	0	0	886	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	465	0	56	706	0	0	0	0	886	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	465	0	56	706	0	0	0	0	886	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	2880	0	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.15	0.00	0.04	0.22	0.00	0.00	0.00	0.00	0.31	0.00	0.00
Crit Moves:	****				****					****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

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Intersection #2 Studebaker Rd/SR-22 EB Ramps

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Cycle (sec): 100 Critical Vol./Cap. (X): 0.594
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 49 Level Of Service: A

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	466	1044	148	1421	0	0	0	0	13	0	42
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:	0	466	1044	148	1421	0	0	0	0	13	0	42
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	466	0	148	1421	0	0	0	0	13	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	466	0	148	1421	0	0	0	0	13	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	466	0	148	1421	0	0	0	0	13	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	2880	0	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.15	0.00	0.09	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crit Moves:	****				****						****	

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Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #3 Studebaker Road/AES Plant Driveway

Cycle (sec):	100	Critical Vol./Cap. (X):	0.597
Loss Time (sec):	12 (Y-R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	44	Level Of Service:	A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	0	1 0	2 0	0	0 0	0 0	0	0 0	1! 0	0
Volume Module:												
Base Vol:	0	1531	0	1	1525	0	0	0	0	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:	0	1531	0	1	1525	0	0	0	0	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:	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:	0	1531	0	1	1525	0	0	0	0	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1531	0	1	1525	0	0	0	0	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 Vol.:	0	1531	0	1	1525	0	0	0	0	0	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	0	1600	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.48	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crit Moves:	****				****							

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #4 Studebaker Rd/Loynes Dr

Cycle (sec):	100	Critical Vol./Cap. (X):	0.636
Loss Time (sec):	15 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	52	Level Of Service:	B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0 2 0 0			0 0 2 0 1			2 0 0 0 2			0 0 0 0 0		
Volume Module:												
Base Vol:	30	1336	0	0	1294	224	180	0	99	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:	30	1336	0	0	1294	224	180	0	99	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:	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:	30	1336	0	0	1294	224	180	0	99	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	30	1336	0	0	1294	224	180	0	99	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 Vol.:	30	1336	0	0	1294	224	180	0	99	0	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.00	0.00	0.00	2.00	1.00	2.00	0.00	2.00	0.00	0.00	0.00
Final Sat.:	1600	3200	0	0	3200	1600	2880	0	3200	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.02	0.42	0.00	0.00	0.40	0.14	0.06	0.00	0.03	0.00	0.00	0.00
Crit Moves:	****				****		****					

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

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Intersection #5 Studebaker Rd/2nd Street

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Cycle (sec): 100 Critical Vol./Cap. (X): 0.860
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 93 Level Of Service: D

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Ovl			Include			Ovl		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	0 0	0	2 0	0 0	2	2 0	2 0	0	0 0	2 0	1
Volume Module:												
Base Vol:	0	0	0	323	0	1054	1343	302	0	0	420	204
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:	0	0	0	323	0	1054	1343	302	0	0	420	204
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:	0	0	0	323	0	1054	1343	302	0	0	420	204
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	323	0	1054	1343	302	0	0	420	204
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 Vol.:	0	0	0	323	0	1054	1343	302	0	0	420	204
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	2.00	0.00	2.00	2.00	2.00	0.00	0.00	2.00	1.00
Final Sat.:	0	0	0	2880	0	3200	2880	3200	0	0	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.11	0.00	0.33	0.47	0.09	0.00	0.00	0.13	0.13
Crit Moves:				****			****				****	

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Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #6 PCH/7th St

Cycle (sec): 100 Critical Vol./Cap. (X): 0.880
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 104 Level Of Service: D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	2 0	3 0	0	0 0	2 1	0	0 0	2 0	1
Volume Module:												
Base Vol:	171	763	23	482	926	0	0	1490	191	0	1179	431
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:	171	763	23	482	926	0	0	1490	191	0	1179	431
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:	171	763	23	482	926	0	0	1490	191	0	1179	431
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	171	763	23	482	926	0	0	1490	191	0	1179	431
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 Vol.:	171	763	23	482	926	0	0	1490	191	0	1179	431
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.91	0.09	2.00	3.00	0.00	0.00	2.66	0.34	0.00	2.00	1.00
Final Sat.:	1600	4660	140	2880	4800	0	0	4255	545	0	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.11	0.16	0.16	0.17	0.19	0.00	0.00	0.35	0.35	0.00	0.37	0.27
Crit Moves:		****		****			****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #7 PCH/Bellflower Blvd

Cycle (sec): 100 Critical Vol./Cap. (X): 0.693
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 64 Level Of Service: B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 1	0	1 0	2 0	1	1 1	2 0	1
Volume Module:												
Base Vol:	76	898	374	46	1028	37	55	210	46	512	274	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:	76	898	374	46	1028	37	55	210	46	512	274	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:	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:	76	898	374	46	1028	37	55	210	46	512	274	21
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	76	898	374	46	1028	37	55	210	46	512	274	21
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 Vol.:	76	898	374	46	1028	37	55	210	46	512	274	21
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.90	0.10	1.00	2.00	1.00	2.00	2.00	1.00
Final Sat.:	1600	4800	1600	1600	4633	167	1600	3200	1600	2880	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.05	0.19	0.23	0.03	0.22	0.22	0.03	0.07	0.03	0.18	0.09	0.01
Crit Moves:	****				****			****		****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #8 PCH/Loynes Dr

Cycle (sec): 100 Critical Vol./Cap. (X): 0.774
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 72 Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	1 0	3 0	1	1 0	1 1	0	1 0	2 0	1
Volume Module:												
Base Vol:	142	823	140	27	1514	12	34	124	127	227	140	24
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:	142	823	140	27	1514	12	34	124	127	227	140	24
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:	142	823	140	27	1514	12	34	124	127	227	140	24
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	142	823	140	27	1514	12	34	124	127	227	140	24
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 Vol.:	142	823	140	27	1514	12	34	124	127	227	140	24
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.56	0.44	1.00	3.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00
Final Sat.:	1600	4102	698	1600	4800	1600	1600	1600	1600	1600	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.09	0.20	0.20	0.02	0.32	0.01	0.02	0.08	0.08	0.14	0.04	0.02
Crit Moves:	****				****			****		****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #9 PCH/2nd St

Cycle (sec): 100 Critical Vol./Cap. (X): 0.950
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 135 Level Of Service: E

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	2 0 2	1	0	1 0 2	1	0	2 0 2	1	1	2 0 3	0	1
Volume Module:												
Base Vol:	353	986	173	241	980	227	512	1135	314	369	959	191
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:	353	986	173	241	980	227	512	1135	314	369	959	191
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:	353	986	173	241	980	227	512	1135	314	369	959	191
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	353	986	173	241	980	227	512	1135	314	369	959	191
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 Vol.:	353	986	173	241	980	227	512	1135	314	369	959	191
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	0.90	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00
Lanes:	2.00	2.55	0.45	1.00	2.44	0.56	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	2880	4084	716	1600	3897	903	2880	4800	1600	2880	4800	1600
Capacity Analysis Module:												
Vol/Sat:	0.12	0.24	0.24	0.15	0.25	0.25	0.18	0.24	0.20	0.13	0.20	0.12
Crit Moves:		****		****			****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #11 Bixby Village/Loynes Dr

Cycle (sec):	100	Critical Vol./Cap. (X):	0.273
Loss Time (sec):	10 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	24	Level Of Service:	A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Permitted			Permitted			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	1! 0	0	0 1	0 0	1	1 0	2 0	1	1 0	1 1	0
Volume Module:												
Base Vol:	28	9	14	27	10	57	34	246	30	14	281	35
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:	28	9	14	27	10	57	34	246	30	14	281	35
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:	28	9	14	27	10	57	34	246	30	14	281	35
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	28	9	14	27	10	57	34	246	30	14	281	35
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 Vol.:	28	9	14	27	10	57	34	246	30	14	281	35
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.55	0.18	0.27	0.73	0.27	1.00	1.00	2.00	1.00	1.00	1.78	0.22
Final Sat.:	878	282	439	1168	432	1600	1600	3200	1600	1600	2846	354
Capacity Analysis Module:												
Vol/Sat:	0.02	0.03	0.03	0.02	0.02	0.04	0.02	0.08	0.02	0.01	0.10	0.10
Crit Moves:	****					****	****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #100 PCH/Studebaker Rd

Cycle (sec):	100	Critical Vol./Cap. (X):	0.962
Loss Time (sec):	15 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	144	Level Of Service:	E

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	1 1	0 0	1	0 0	1! 0	0
Volume Module:												
Base Vol:	130	1520	29	29	1734	165	185	21	188	60	40	14
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:	130	1520	29	29	1734	165	185	21	188	60	40	14
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:	130	1520	29	29	1734	165	185	21	188	60	40	14
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	130	1520	29	29	1734	165	185	21	188	60	40	14
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 Vol.:	130	1520	29	29	1734	165	185	21	188	60	40	14
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	1.80	0.20	1.00	0.53	0.35	0.12
Final Sat.:	1600	4800	1600	1600	3200	1600	2874	326	1600	842	561	196
Capacity Analysis Module:												
Vol/Sat:	0.08	0.32	0.02	0.02	0.54	0.10	0.06	0.06	0.12	0.07	0.07	0.07
Crit Moves:	****				****				****	****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Studebaker Rd/SR-22 WB Ramps

Cycle (sec): 100 Critical Vol./Cap. (X): 0.746
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 67 Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	465	37	56	706	0	0	0	0	886	0	1
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	477	38	57	724	0	0	0	0	909	0	1
Added Vol:	0	60	0	0	65	0	0	0	0	97	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	537	38	57	789	0	0	0	0	1006	0	1
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	537	0	57	789	0	0	0	0	1006	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	537	0	57	789	0	0	0	0	1006	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	537	0	57	789	0	0	0	0	1006	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	2880	0	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.17	0.00	0.04	0.25	0.00	0.00	0.00	0.00	0.35	0.00	0.00
Crit Moves:	****				****					****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

****

Intersection #2 Studebaker Rd/SR-22 EB Ramps

****

Cycle (sec):	100	Critical Vol./Cap. (X):	0.656
Loss Time (sec):	15 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	55	Level Of Service:	B

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0 2	0	1	1 0 2	0	0	0 0 0	0	0	2 0 0	0	1
Volume Module:												
Base Vol:	0	466	1044	148	1421	0	0	0	0	13	0	42
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	478	1071	152	1458	0	0	0	0	13	0	43
Added Vol:	0	60	86	0	162	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	538	1157	152	1620	0	0	0	0	13	0	43
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	538	0	152	1620	0	0	0	0	13	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	538	0	152	1620	0	0	0	0	13	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	538	0	152	1620	0	0	0	0	13	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	2680	0	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.17	0.00	0.09	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crit Moves:	****				****						****	

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Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

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Intersection #3 Studebaker Road/AES Plant Driveway

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Cycle (sec): 100 Critical Vol./Cap. (X): 0.660
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 50 Level Of Service: B

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0 2	0	1	1 0 2	0	0	0 0 0	0	0	0 0 1!	0	0
Volume Module:												
Base Vol:	0	1531	0	1	1525	0	0	0	0	0	0	0
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	1571	0	1	1565	0	0	0	0	0	0	0
Added Vol:	0	146	0	0	162	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	1717	0	1	1727	0	0	0	0	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:	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:	0	1717	0	1	1727	0	0	0	0	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1717	0	1	1727	0	0	0	0	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 Vol.:	0	1717	0	1	1727	0	0	0	0	0	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	0	1600	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.54	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crit Moves:	****				****							

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Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Studebaker Rd/Loynes Dr

Cycle (sec):	100	Critical Vol./Cap. (X):	0.729
Loss Time (sec):	18 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	69	Level Of Service:	C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0 2 0 1			1 0 2 0 1			2 0 1 0 1			1 0 1 0 1		
Volume Module:												
Base Vol:	30	1336	0	0	1294	224	180	0	99	0	0	0
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	31	1371	0	0	1328	230	185	0	102	0	0	0
Added Vol:	0	146	0	0	162	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	31	1517	0	0	1490	230	185	0	102	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:	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:	31	1517	0	0	1490	230	185	0	102	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	31	1517	0	0	1490	230	185	0	102	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 Vol.:	31	1517	0	0	1490	230	185	0	102	0	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00
Final Sat.:	1600	3200	1600	1600	3200	1600	2880	1600	1600	1600	1600	1600
Capacity Analysis Module:												
Vol/Sat:	0.02	0.47	0.00	0.00	0.47	0.14	0.06	0.00	0.06	0.00	0.00	0.00
Crit Moves:	****				****		****					

Long Beach Home Depot Center

Level Of Service Computation Report
TCU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #5 Studebaker Rd/2nd Street

Cycle (sec):	100	Critical Vol./Cap. (X):	0.936
Loss Time (sec):	15 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	126	Level Of Service:	E

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Ovl			Include			Ovl		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	0 0	0	2 0	0 0	2	2 0	2 0	0	0 0	2 0	1
Volume Module:												
Base Vol:	0	0	0	323	0	1054	1343	302	0	0	420	204
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	0	0	331	0	1081	1378	310	0	0	431	209
Added Vol:	0	0	0	48	0	114	105	15	0	0	16	41
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	379	0	1195	1483	325	0	0	447	250
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:	0	0	0	379	0	1195	1483	325	0	0	447	250
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	379	0	1195	1483	325	0	0	447	250
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 Vol.:	0	0	0	379	0	1195	1483	325	0	0	447	250
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	2.00	0.00	2.00	2.00	2.00	0.00	0.00	2.00	1.00
Final Sat.:	0	0	0	2880	0	3200	2880	3200	0	0	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.13	0.00	0.37	0.51	0.10	0.00	0.00	0.14	0.16
Crit Moves:				****			****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #6 PCH/7th St

Cycle (sec):	100	Critical Vol./Cap. (X):	0.910
Loss Time (sec):	18 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	115	Level Of Service:	E

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0 2 1 0			2 0 3 0 0			0 0 2 1 0			0 0 2 0 1		
Volume Module:												
Base Vol:	171	763	23	482	926	0	0	1490	191	0	1179	431
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	175	783	24	495	950	0	0	1529	196	0	1210	442
Added Vol:	42	58	0	0	66	0	0	0	47	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	217	841	24	495	1016	0	0	1529	243	0	1210	442
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:	217	841	24	495	1016	0	0	1529	243	0	1210	442
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	217	841	24	495	1016	0	0	1529	243	0	1210	442
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 Vol.:	217	841	24	495	1016	0	0	1529	243	0	1210	442
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.92	0.08	2.00	3.00	0.00	0.00	2.59	0.41	0.00	2.00	1.00
Final Sat.:	1600	4669	131	2880	4800	0	0	4142	658	0	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.14	0.18	0.16	0.17	0.21	0.00	0.00	0.37	0.37	0.00	0.38	0.28
Crit Moves:		****		****			****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #7 PCH/Bellflower Blvd

Cycle (sec):	100	Critical Vol./Cap. (X):	0.744
Loss Time (sec):	18 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	72	Level Of Service:	C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 1	0	1 0	2 0	1	1 1	2 0	1
Volume Module:												
Base Vol:	76	898	374	46	1028	37	55	210	46	512	274	21
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	78	921	384	47	1055	38	56	215	47	525	281	22
Added Vol:	0	101	45	0	113	0	0	0	0	49	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	78	1022	429	47	1168	38	56	215	47	574	281	22
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:	78	1022	429	47	1168	38	56	215	47	574	281	22
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	78	1022	429	47	1168	38	56	215	47	574	281	22
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 Vol.:	78	1022	429	47	1168	38	56	215	47	574	281	22
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.91	0.09	1.00	2.00	1.00	2.00	2.00	1.00
Final Sat.:	1600	4800	1600	1600	4649	151	1600	3200	1600	2880	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.05	0.21	0.27	0.03	0.25	0.25	0.04	0.07	0.03	0.20	0.09	0.01
Crit Moves:			****	****				****		****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #8 PCH/Loynes Dr

Cycle (sec): 100 Critical Vol./Cap. (X): 0.840
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 87 Level Of Service: D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	1 0	3 0	1	1 0	1 1	0	1 0	2 0	1
Volume Module:												
Base Vol:	142	823	140	27	1514	12	34	124	127	227	140	24
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	146	844	144	28	1553	12	35	127	130	233	144	25
Added Vol:	6	146	9	0	162	0	0	0	7	10	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	152	990	153	28	1715	12	35	127	137	243	144	25
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:	152	990	153	28	1715	12	35	127	137	243	144	25
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	152	990	153	28	1715	12	35	127	137	243	144	25
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 Vol.:	152	990	153	28	1715	12	35	127	137	243	144	25
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.60	0.40	1.00	3.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00
Final Sat.:	1600	4159	641	1600	4800	1600	1600	1600	1600	1600	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.09	0.24	0.24	0.02	0.36	0.01	0.02	0.08	0.09	0.15	0.04	0.02
Crit Moves:	****				****				****	****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

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Intersection #9 PCH/2nd St

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Cycle (sec): 100 Critical Vol./Cap. (X): 0.991
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 165 Level Of Service: E

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	2 0	2 1	0	2 0	3 0	1	2 0	2 1	1	2 0	3 0	1
Volume Module:												
Base Vol:	353	986	173	241	980	227	512	1135	314	369	959	191
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	362	1012	177	247	1005	233	525	1165	322	379	984	196
Added Vol:	53	161	120	0	178	0	0	0	58	130	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	415	1173	297	247	1183	233	525	1165	380	509	984	196
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:	415	1173	297	247	1183	233	525	1165	380	509	984	196
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	415	1173	297	247	1183	233	525	1165	380	509	984	196
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 Vol.:	415	1173	297	247	1183	233	525	1165	380	509	984	196
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	0.90	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00
Lanes:	2.00	2.39	0.61	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	2880	3829	971	2880	4800	1600	2880	4800	1600	2880	4800	1600
Capacity Analysis Module:												
Vol/Sat:	0.14	0.31	0.31	0.09	0.25	0.15	0.18	0.24	0.24	0.18	0.20	0.12
Crit Moves:		****		****				****		****		

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Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #11 Bixby Village/Loynes Dr

Cycle (sec):	100	Critical Vol./Cap. (X):	0.290
Loss Time (sec):	10 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	25	Level Of Service:	A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Permitted			Permitted			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	1! 0	0	0 1	0 0	1	1 0	2 0	1	1 0	1 1	0
Volume Module:												
Base Vol:	28	9	14	27	10	57	34	246	30	14	281	35
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	29	9	14	28	10	58	35	252	31	14	288	36
Added Vol:	0	0	0	0	0	10	9	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	29	9	14	28	10	68	44	252	31	14	288	36
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:	29	9	14	28	10	68	44	252	31	14	288	36
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	29	9	14	28	10	68	44	252	31	14	288	36
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 Vol.:	29	9	14	28	10	68	44	252	31	14	288	36
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.55	0.18	0.27	0.73	0.27	1.00	1.00	2.00	1.00	1.00	1.78	0.22
Final Sat.:	878	282	439	1168	432	1600	1600	3200	1600	1600	2846	354
Capacity Analysis Module:												
Vol/Sat:	0.02	0.03	0.03	0.02	0.02	0.04	0.03	0.08	0.02	0.01	0.10	0.10
Crit Moves:	****					****	****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #100 PCH/Studebaker Rd

Cycle (sec): 100 Critical Vol./Cap. (X): 1.189
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: F

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	1 1	0 0	1	0 0	1! 0	0
Volume Module:												
Base Vol:	130	1520	29	29	1734	165	185	21	188	60	40	14
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	133	1560	30	30	1779	169	190	22	193	62	41	14
Added Vol:	0	49	16	309	58	0	0	0	0	15	0	285
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	133	1609	46	339	1837	169	190	22	193	77	41	299
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:	133	1609	46	339	1837	169	190	22	193	77	41	299
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	133	1609	46	339	1837	169	190	22	193	77	41	299
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 Vol.:	133	1609	46	339	1837	169	190	22	193	77	41	299
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	1.80	0.20	1.00	0.18	0.10	0.72
Final Sat.:	1600	4800	1600	1600	3200	1600	2874	326	1600	294	157	1149
Capacity Analysis Module:												
Vol/Sat:	0.08	0.34	0.03	0.21	0.57	0.11	0.07	0.07	0.12	0.26	0.26	0.26
Crit Moves:	****				****				****		****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Studebaker Rd/SR-22 WB Ramps

Cycle (sec): 100 Critical Vol./Cap. (X): 0.737
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 65 Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	465	37	56	706	0	0	0	0	886	0	1
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:	0	465	37	56	706	0	0	0	0	886	0	1
Added Vol:	0	88	38	0	103	0	0	0	0	77	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	553	75	56	809	0	0	0	0	963	0	1
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	553	0	56	809	0	0	0	0	963	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	553	0	56	809	0	0	0	0	963	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	553	0	56	809	0	0	0	0	963	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	2880	0	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.17	0.00	0.04	0.25	0.00	0.00	0.00	0.00	0.33	0.00	0.00
Crit Moves:	****				****					****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #2 Studebaker Rd/SR-22 EB Ramps

Cycle (sec):	100	Critical Vol./Cap. (X):	0.670
Loss Time (sec):	15 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	56	Level Of Service:	B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	466	1044	148	1421	0	0	0	0	13	0	42
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:	0	466	1044	148	1421	0	0	0	0	13	0	42
Added Vol:	0	126	66	0	180	0	0	0	0	45	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	592	1110	148	1601	0	0	0	0	58	0	42
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	592	0	148	1601	0	0	0	0	58	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	592	0	148	1601	0	0	0	0	58	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	592	0	148	1601	0	0	0	0	58	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	2880	0	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.19	0.00	0.09	0.50	0.00	0.00	0.00	0.00	0.02	0.00	0.00
Crit Moves:	****				****					****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #3 Studebaker Road/AES Plant Driveway

Cycle (sec):	100	Critical Vol./Cap. (X):	0.667
Loss Time (sec):	12 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	50	Level Of Service:	B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	0 0	1 0	0
Volume Module:												
Base Vol:	0	1531	0	1	1525	0	0	0	0	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:	0	1531	0	1	1525	0	0	0	0	0	0	0
Added Vol:	0	192	0	0	224	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	1723	0	1	1749	0	0	0	0	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:	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:	0	1723	0	1	1749	0	0	0	0	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1723	0	1	1749	0	0	0	0	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 Vol.:	0	1723	0	1	1749	0	0	0	0	0	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	0	1600	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.54	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crit Moves:	****				****							

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Studebaker Rd/Loynes Dr

Cycle (sec):	100	Critical Vol./Cap. (X):	0.756
Loss Time (sec):	16 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	70	Level Of Service:	C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Prot+Permit			Prot+Permit			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	2 0	1 0	1	1 0	2 0	1
Volume Module:												
Base Vol:	30	1336	0	0	1294	224	180	0	99	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:	30	1336	0	0	1294	224	180	0	99	0	0	0
Added Vol:	0	42	96	224	0	0	0	160	0	110	137	143
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	30	1378	96	224	1294	224	180	160	99	110	137	143
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:	30	1378	96	224	1294	224	180	160	99	110	137	143
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	30	1378	96	224	1294	224	180	160	99	110	137	143
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 Vol.:	30	1378	96	224	1294	224	180	160	99	110	137	143
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00
Final Sat.:	1600	4800	1600	1600	3200	1600	2880	1600	1600	1600	1600	1600
Capacity Analysis Module:												
Vol/Sat:	0.02	0.29	0.06	0.14	0.40	0.14	0.06	0.10	0.06	0.07	0.09	0.09
Crit Moves:		****		****				****		****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #5 Studebaker Rd/2nd Street

Cycle (sec): 100 Critical Vol./Cap. (X): 0.903
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 109 Level Of Service: E

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Ovl			Include			Ovl		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	0 0	0	2 0	0 0	2	2 0	2 0	0	0 0	2 0	1
Volume Module:												
Base Vol:	0	0	0	323	0	1054	1343	302	0	0	420	204
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:	0	0	0	323	0	1054	1343	302	0	0	420	204
Added Vol:	0	0	0	22	0	88	103	0	0	0	0	26
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	345	0	1142	1446	302	0	0	420	230
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:	0	0	0	345	0	1142	1446	302	0	0	420	230
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	345	0	1142	1446	302	0	0	420	230
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 Vol.:	0	0	0	345	0	1142	1446	302	0	0	420	230
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	2.00	0.00	2.00	2.00	2.00	0.00	0.00	2.00	1.00
Final Sat.:	0	0	0	2880	0	3200	2880	3200	0	0	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.12	0.00	0.36	0.50	0.09	0.00	0.00	0.13	0.14
Crit Moves:				****			****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

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Intersection #6 PCH/7th St

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Cycle (sec): 100 Critical Vol./Cap. (X): 0.894
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 109 Level Of Service: D

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	2 0	3 0	0	0 0	2 1	0	0 0	2 0	1
Volume Module:												
Base Vol:	171	763	23	482	926	0	0	1490	191	0	1179	431
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:	171	763	23	482	926	0	0	1490	191	0	1179	431
Added Vol:	33	33	0	13	38	0	0	13	38	0	11	11
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	204	796	23	495	964	0	0	1503	229	0	1190	442
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:	204	796	23	495	964	0	0	1503	229	0	1190	442
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	204	796	23	495	964	0	0	1503	229	0	1190	442
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 Vol.:	204	796	23	495	964	0	0	1503	229	0	1190	442
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.92	0.08	2.00	3.00	0.00	0.00	2.60	0.40	0.00	2.00	1.00
Final Sat.:	1600	4665	135	2880	4800	0	0	4165	635	0	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.13	0.17	0.17	0.17	0.20	0.00	0.00	0.36	0.36	0.00	0.37	0.28
Crit Moves:		****		****			****				****	

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Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #7 PCH/Bellflower Blvd

Cycle (sec): 100 Critical Vol./Cap. (X): 0.737
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 70 Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 1	0	1 0	2 0	1	1 1	2 0	1
Volume Module:												
Base Vol:	76	898	374	46	1028	37	55	210	46	512	274	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:	76	898	374	46	1028	37	55	210	46	512	274	21
Added Vol:	0	66	49	0	77	0	0	0	0	58	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	76	964	423	46	1105	37	55	210	46	570	274	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:	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:	76	964	423	46	1105	37	55	210	46	570	274	21
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	76	964	423	46	1105	37	55	210	46	570	274	21
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 Vol.:	76	964	423	46	1105	37	55	210	46	570	274	21
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.90	0.10	1.00	2.00	1.00	2.00	2.00	1.00
Final Sat.:	1600	4800	1600	1600	4644	156	1600	3200	1600	2880	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.05	0.20	0.26	0.03	0.24	0.24	0.03	0.07	0.03	0.20	0.09	0.01
Crit Moves:			****	****				****		****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #8 PCH/Loynes Dr

Cycle (sec): 100 Critical Vol./Cap. (X): 0.778
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 73 Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	1 0	3 0	1	1 0	1 1	0	1 0	2 0	1
Volume Module:												
Base Vol:	142	823	140	27	1514	12	34	124	127	227	140	24
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:	142	823	140	27	1514	12	34	124	127	227	140	24
Added Vol:	0	0	0	135	0	0	0	10	0	0	9	115
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	142	823	140	162	1514	12	34	134	127	227	149	139
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:	142	823	140	162	1514	12	34	134	127	227	149	139
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	142	823	140	162	1514	12	34	134	127	227	149	139
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 Vol.:	142	823	140	162	1514	12	34	134	127	227	149	139
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.56	0.44	1.00	3.00	1.00	1.00	1.03	0.97	1.00	2.00	1.00
Final Sat.:	1600	4102	698	1600	4800	1600	1600	1643	1557	1600	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.09	0.20	0.20	0.10	0.32	0.01	0.02	0.08	0.08	0.14	0.05	0.09
Crit Moves:	****				****			****		****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #9 PCH/2nd St

Cycle (sec): 100 Critical Vol./Cap. (X): 0.969
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 148 Level Of Service: E

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	2 0	2 1	0	1 0	2 1	0	2 0	2 1	1	2 0	3 0	1
Volume Module:												
Base Vol:	353	986	173	241	980	227	512	1135	314	369	959	191
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:	353	986	173	241	980	227	512	1135	314	369	959	191
Added Vol:	0	0	26	0	0	0	0	77	0	22	66	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	353	986	199	241	980	227	512	1212	314	391	1025	191
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:	353	986	199	241	980	227	512	1212	314	391	1025	191
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	353	986	199	241	980	227	512	1212	314	391	1025	191
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 Vol.:	353	986	199	241	980	227	512	1212	314	391	1025	191
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	0.90	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00
Lanes:	2.00	2.50	0.50	1.00	2.44	0.56	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	2880	3994	806	1600	3897	903	2880	4800	1600	2880	4800	1600
Capacity Analysis Module:												
Vol/Sat:	0.12	0.25	0.25	0.15	0.25	0.25	0.18	0.25	0.20	0.14	0.21	0.12
Crit Moves:		****		****			****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #11 Bixby Village/Loynes Dr

Cycle (sec): 100 Critical Vol./Cap. (X): 0.321
Loss Time (sec): 10 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 26 Level Of Service: A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Permitted			Permitted			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	1! 0	0	0 1	0 0	1	1 0	2 0	1	1 0	1 1	0
Volume Module:												
Base Vol:	28	9	14	27	10	57	34	246	30	14	281	35
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:	28	9	14	27	10	57	34	246	30	14	281	35
Added Vol:	0	0	0	15	0	0	0	145	0	0	124	13
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	28	9	14	42	10	57	34	391	30	14	405	48
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:	28	9	14	42	10	57	34	391	30	14	405	48
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	28	9	14	42	10	57	34	391	30	14	405	48
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 Vol.:	28	9	14	42	10	57	34	391	30	14	405	48
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.55	0.18	0.27	0.81	0.19	1.00	1.00	2.00	1.00	1.00	1.79	0.21
Final Sat.:	878	282	439	1292	308	1600	1600	3200	1600	1600	2861	339
Capacity Analysis Module:												
Vol/Sat:	0.02	0.03	0.03	0.03	0.03	0.04	0.02	0.12	0.02	0.01	0.14	0.14
Crit Moves:		****		****			****				****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #100 PCH/Studebaker Rd

Cycle (sec): 100 Critical Vol./Cap. (X): 0.969
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 149 Level Of Service: E

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	1 1	0 0	1	0 0	1! 0	0
Volume Module:												
Base Vol:	130	1520	29	29	1734	165	185	21	188	60	40	14
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:	130	1520	29	29	1734	165	185	21	188	60	40	14
Added Vol:	0	26	0	0	22	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	130	1546	29	29	1756	165	185	21	188	60	40	14
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:	130	1546	29	29	1756	165	185	21	188	60	40	14
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	130	1546	29	29	1756	165	185	21	188	60	40	14
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 Vol.:	130	1546	29	29	1756	165	185	21	188	60	40	14
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	1.80	0.20	1.00	0.53	0.35	0.12
Final Sat.:	1600	4800	1600	1600	3200	1600	2874	326	1600	842	561	196
Capacity Analysis Module:												
Vol/Sat:	0.08	0.32	0.02	0.02	0.55	0.10	0.06	0.06	0.12	0.07	0.07	0.07
Crit Moves:	****				****				****	****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

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Intersection #1 Studebaker Rd/SR-22 WB Ramps

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Cycle (sec):	100	Critical Vol./Cap. (X):	0.805
Loss Time (sec):	15 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	78	Level Of Service:	D

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0 2 0 1			1 0 2 0 0			0 0 0 0 0			2 0 0 0 1		
Volume Module:												
Base Vol:	0	465	37	56	706	0	0	0	0	886	0	1
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	477	38	57	724	0	0	0	0	909	0	1
Added Vol:	0	148	38	0	168	0	0	0	0	174	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	625	75	57	892	0	0	0	0	1083	0	1
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	625	0	57	892	0	0	0	0	1083	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	625	0	57	892	0	0	0	0	1083	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	625	0	57	892	0	0	0	0	1083	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	2880	0	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.20	0.00	0.04	0.28	0.00	0.00	0.00	0.00	0.38	0.00	0.00
Crit Moves:	****				****					****		

****

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

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Intersection #2 Studebaker Rd/SR-22 EB Ramps

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Cycle (sec): 100 Critical Vol./Cap. (X): 0.732
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 65 Level Of Service: C

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	466	1044	148	1421	0	0	0	0	13	0	42
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	478	1071	152	1458	0	0	0	0	13	0	43
Added Vol:	0	186	152	0	341	0	0	0	0	45	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	664	1223	152	1799	0	0	0	0	58	0	43
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	664	0	152	1799	0	0	0	0	58	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	664	0	152	1799	0	0	0	0	58	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	664	0	152	1799	0	0	0	0	58	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	2880	0	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.21	0.00	0.09	0.56	0.00	0.00	0.00	0.00	0.02	0.00	0.00
Crit Moves:	****				****					****		

****

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #3 Studebaker Road/ASS Plant Driveway

Cycle (sec): 100 Critical Vol./Cap. (X): 0.730
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 58 Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	0 0	1! 0	0
Volume Module:												
Base Vol:	0	1531	0	1	1525	0	0	0	0	0	0	0
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	1571	0	1	1565	0	0	0	0	0	0	0
Added Vol:	0	338	0	0	386	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	1909	0	1	1951	0	0	0	0	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:	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:	0	1909	0	1	1951	0	0	0	0	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1909	0	1	1951	0	0	0	0	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 Vol.:	0	1909	0	1	1951	0	0	0	0	0	0	0
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
Final Sat.:	0	3200	1600	1600	3200	0	0	0	0	0	1600	0
Capacity Analysis Module:												
Vol/Sat:	0.00	0.60	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crit Moves:	****				****							

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Studebaker Rd/Loynes Dr

Cycle (sec): 100 Critical Vol./Cap. (X): 0.809
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 81 Level Of Service: D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Prot+Permit			Prot+Permit			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	2 0	1 0	1	1 0	1 0	1
Volume Module:												
Base Vol:	30	1336	0	0	1294	224	180	0	99	0	0	0
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	31	1371	0	0	1328	230	185	0	102	0	0	0
Added Vol:	0	188	96	224	162	0	0	160	0	110	137	143
PasserByVol:	-66	-15	15	-32	-34	0	-12	24	-12	16	21	21
Initial Fut:	-35	1544	111	192	1456	230	173	184	90	126	158	164
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:	-35	1544	111	192	1456	230	173	184	90	126	158	164
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1544	111	192	1456	230	173	184	90	126	158	164
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 Vol.:	0	1544	111	192	1456	230	173	184	90	126	158	164
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00
Final Sat.:	1600	4800	1600	1600	3200	1600	2880	1600	1600	1600	1600	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.32	0.07	0.12	0.45	0.14	0.06	0.12	0.06	0.08	0.10	0.10
Crit Moves:	****				****			****			****	

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

****

Intersection #5 Studebaker Rd/2nd Street

****

Cycle (sec): 100 Critical Vol./Cap. (X): 0.980
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 159 Level Of Service: E

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Ovl			Include			Ovl		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	0 0	0	2 0	0 0	2	2 0	2 0	0	0 0	2 0	1
Volume Module:												
Base Vol:	0	0	0	323	0	1054	1343	302	0	0	420	204
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	0	0	331	0	1081	1378	310	0	0	431	209
Added Vol:	0	0	0	70	0	202	208	15	0	0	16	66
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	401	0	1283	1586	325	0	0	447	275
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:	0	0	0	401	0	1283	1586	325	0	0	447	275
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	401	0	1283	1586	325	0	0	447	275
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 Vol.:	0	0	0	401	0	1283	1586	325	0	0	447	275
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	2.00	0.00	2.00	2.00	2.00	0.00	0.00	2.00	1.00
Final Sat.:	0	0	0	2880	0	3200	2880	3200	0	0	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.14	0.00	0.40	0.55	0.10	0.00	0.00	0.14	0.17
Crit Moves:				****			****				****	

****

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

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Intersection #6 PCH/7th St

****

Cycle (sec): 100 Critical Vol./Cap. (X): 0.938
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 129 Level Of Service: E

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	2 0	3 0	0	0 0	2 1	0	0 0	2 0	1
Volume Module:												
Base Vol:	171	763	23	482	926	0	0	1490	191	0	1179	431
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	175	783	24	495	950	0	0	1529	196	0	1210	442
Added Vol:	75	91	0	13	105	0	0	13	85	0	11	11
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	250	874	24	508	1055	0	0	1542	281	0	1221	453
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:	250	874	24	508	1055	0	0	1542	281	0	1221	453
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	250	874	24	508	1055	0	0	1542	281	0	1221	453
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 Vol.:	250	874	24	508	1055	0	0	1542	281	0	1221	453
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.92	0.08	2.00	3.00	0.00	0.00	2.54	0.46	0.00	2.00	1.00
Final Sat.:	1600	4674	126	2880	4800	0	0	4060	740	0	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.16	0.19	0.19	0.18	0.22	0.00	0.00	0.38	0.38	0.00	0.38	0.28
Crit Moves:	****				****		****				****	

****

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #7 PCH/Bellflower Blvd

Cycle (sec): 100 Critical Vol./Cap. (X): 0.795
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 81 Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 1	0	1 0	2 0	1	1 1	2 0	1
Volume Module:												
Base Vol:	76	898	374	46	1028	37	55	210	46	512	274	21
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	78	921	384	47	1055	38	56	215	47	525	281	22
Added Vol:	0	167	94	0	190	0	0	0	0	106	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Put:	78	1088	478	47	1245	38	56	215	47	631	281	22
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:	78	1088	478	47	1245	38	56	215	47	631	281	22
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	78	1088	478	47	1245	38	56	215	47	631	281	22
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 Vol.:	78	1088	478	47	1245	38	56	215	47	631	281	22
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.91	0.09	1.00	2.00	1.00	2.00	2.00	1.00
Final Sat.:	1600	4800	1600	1600	4658	142	1600	3200	1600	2880	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.05	0.23	0.30	0.03	0.27	0.27	0.04	0.07	0.03	0.22	0.09	0.01
Crit Moves:			****	****				****		****		

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

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Intersection #8 PCH/Loynes Dr

****

Cycle (sec): 100 Critical Vol./Cap. (X): 0.840
Loss Time (sec): 13 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 87 Level Of Service: D

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	1 0	3 0	1	1 0	1 1	0	1 0	2 0	1
Volume Module:												
Base Vol:	142	823	140	27	1514	12	34	124	127	227	140	24
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	146	844	144	28	1553	12	35	127	130	233	144	25
Added Vol:	6	146	9	135	162	0	0	10	7	10	9	115
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	152	990	153	163	1715	12	35	137	137	243	153	140
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:	152	990	153	163	1715	12	35	137	137	243	153	140
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	152	990	153	163	1715	12	35	137	137	243	153	140
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 Vol.:	152	990	153	163	1715	12	35	137	137	243	153	140
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.60	0.40	1.00	3.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00
Final Sat.:	1600	4159	641	1600	4800	1600	1600	1600	1600	1600	3200	1600
Capacity Analysis Module:												
Vol/Sat:	0.09	0.24	0.24	0.10	0.36	0.01	0.02	0.09	0.09	0.15	0.05	0.09
Crit Moves:	****				****			****			****	

****

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

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Intersection #9 PCH/2nd St

****

Cycle (sec): 100 Critical Vol./Cap. (X): 1.020
Loss Time (sec): 18 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: F

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	2 0	2 1	0	2 0	3 0	1	2 0	2 1	1	2 0	3 0	1
Volume Module:												
Base Vol:	353	986	173	241	980	227	512	1135	314	369	959	191
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	362	1012	177	247	1005	233	525	1165	322	379	984	196
Added Vol:	53	161	146	0	178	0	0	77	58	152	66	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	415	1173	323	247	1183	233	525	1242	380	531	1050	196
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:	415	1173	323	247	1183	233	525	1242	380	531	1050	196
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	415	1173	323	247	1183	233	525	1242	380	531	1050	196
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 Vol.:	415	1173	323	247	1183	233	525	1242	380	531	1050	196
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	0.90	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00
Lanes:	2.00	2.35	0.65	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	2880	3762	1038	2880	4800	1600	2880	4800	1600	2880	4800	1600
Capacity Analysis Module:												
Vol/Sat:	0.14	0.31	0.31	0.09	0.25	0.15	0.18	0.26	0.24	0.18	0.22	0.12
Crit Moves:		****		****				****		****		

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Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

****

Intersection #11 Bixby Village/Loynes Dr

****

Cycle (sec):	100	Critical Vol./Cap. (X):	0.331
Loss Time (sec):	10 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	26	Level Of Service:	A

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Permitted			Permitted			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	1! 0	0	0 1	0 0	1	1 0	2 0	1	1 0	1 1	0
Volume Module:												
Base Vol:	28	9	14	27	10	57	34	246	30	14	281	35
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	29	9	14	28	10	58	35	252	31	14	288	36
Added Vol:	0	0	0	15	0	10	9	145	0	0	124	13
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	29	9	14	43	10	68	44	397	31	14	412	49
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:	29	9	14	43	10	68	44	397	31	14	412	49
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	29	9	14	43	10	68	44	397	31	14	412	49
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 Vol.:	29	9	14	43	10	68	44	397	31	14	412	49
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.55	0.18	0.27	0.81	0.19	1.00	1.00	2.00	1.00	1.00	1.79	0.21
Final Sat.:	878	282	439	1290	310	1600	1600	3200	1600	1600	2861	339
Capacity Analysis Module:												
Vol/Sat:	0.02	0.03	0.03	0.03	0.03	0.04	0.03	0.12	0.02	0.01	0.14	0.14
Crit Moves:		****		****			****				****	

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Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

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Intersection #100 PCH/Studebaker Rd

****

Cycle (sec): 100 Critical Vol./Cap. (X): 1.195
Loss Time (sec): 15 (Y+R = 4 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: F

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	1 1	0 0	1	0 0	1! 0	0
Volume Module:												
Base Vol:	130	1520	29	29	1734	165	185	21	188	60	40	14
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	133	1560	30	30	1779	169	190	22	193	62	41	14
Added Vol:	0	74	16	309	80	0	0	0	0	15	0	285
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	133	1634	46	339	1859	169	190	22	193	77	41	299
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:	133	1634	46	339	1859	169	190	22	193	77	41	299
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	133	1634	46	339	1859	169	190	22	193	77	41	299
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 Vol.:	133	1634	46	339	1859	169	190	22	193	77	41	299
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	1.80	0.20	1.00	0.18	0.10	0.72
Final Sat.:	1600	4800	1600	1600	3200	1600	2874	326	1600	294	157	1149
Capacity Analysis Module:												
Vol/Sat:	0.08	0.34	0.03	0.21	0.58	0.11	0.07	0.07	0.12	0.26	0.26	0.26
Crit Moves:	****				****				****		****	

****

APPENDIX I

HCM LEVEL OF SERVICE WORKSHEETS

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

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Intersection #1 Studebaker Rd/SR-22 WB Ramps

****

Cycle (sec): 35 Critical Vol./Cap. (X): 0.652
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 11.9
Optimal Cycle:OPTIMIZED Level Of Service: B

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	725	41	79	852	0	0	0	0	644	0	559
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:	0	725	41	79	852	0	0	0	0	644	0	559
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	725	0	79	852	0	0	0	0	644	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	725	0	79	852	0	0	0	0	644	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	725	0	79	852	0	0	0	0	644	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.92	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3610	1900	1905	3610	0	0	0	0	3502	0	1900
Capacity Analysis Module:												
Vol/Sat:	0.00	0.20	0.00	0.04	0.24	0.00	0.00	0.00	0.00	0.18	0.00	0.00
Crit Moves:		****		****						****		
Green/Cycle:	0.00	0.31	0.00	0.07	0.38	0.00	0.00	0.00	0.00	0.28	0.00	0.00
Volume/Cap:	0.00	0.65	0.00	0.65	0.63	0.00	0.00	0.00	0.00	0.65	0.00	0.00
Delay/Veh:	0.0	11.9	0.0	27.9	9.9	0.0	0.0	0.0	0.0	12.6	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:	0.0	11.9	0.0	27.9	9.9	0.0	0.0	0.0	0.0	12.6	0.0	0.0
HCM2kAvg:	0	5	0	2	5	0	0	0	0	5	0	0

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

****

Intersection #1 Studebaker Rd/SR-22 WB Ramps

****

Cycle (sec): 60 Critical Vol./Cap. (X): 0.872
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 21.7
Optimal Cycle:OPTIMIZED Level Of Service: C

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	941	56	73	1375	0	0	0	0	1110	0	320
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:	0	941	56	73	1375	0	0	0	0	1110	0	320
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	941	0	73	1375	0	0	0	0	1110	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	941	0	73	1375	0	0	0	0	1110	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	941	0	73	1375	0	0	0	0	1110	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.92	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3610	1900	1805	3610	0	0	0	0	3502	0	1900
Capacity Analysis Module:												
Vol/Sat:	0.00	0.26	0.00	0.04	0.38	0.00	0.00	0.00	0.00	0.32	0.00	0.00
Crit Moves:	****				****					****		
Green/Cycle:	0.00	0.38	0.00	0.06	0.44	0.00	0.00	0.00	0.00	0.36	0.00	0.00
Volume/Cap:	0.00	0.69	0.00	0.69	0.87	0.00	0.00	0.00	0.00	0.87	0.00	0.00
Delay/Veh:	0.0	17.2	0.0	45.3	21.0	0.0	0.0	0.0	0.0	24.7	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:	0.0	17.2	0.0	45.3	21.0	0.0	0.0	0.0	0.0	24.7	0.0	0.0
HCM2kAvg:	0	9	0	3	15	0	0	0	0	14	0	0

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

Intersection #2 Studebaker Rd/SR-22 EB Ramps

Cycle (sec): 40 Critical Vol./Cap. (X): 0.508
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 5.8
Optimal Cycle:OPTIMIZED Level Of Service: A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0 2	0	1	1 0 2	0	0	0 0 0	0	0	2 0 0	0	1
Volume Module:												
Base Vol:	0	710	1351	194	1263	0	0	0	0	20	0	107
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:	0	710	1351	194	1263	0	0	0	0	20	0	107
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	710	0	194	1263	0	0	0	0	20	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	710	0	194	1263	0	0	0	0	20	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	710	0	194	1263	0	0	0	0	20	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.92	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3610	1900	1805	3610	0	0	0	0	3502	0	1900
Capacity Analysis Module:												
Vol/Sat:	0.00	0.20	0.00	0.11	0.35	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Crit Moves:	****				****					****		
Green/Cycle:	0.00	0.45	0.00	0.24	0.69	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Volume/Cap:	0.00	0.44	0.00	0.44	0.51	0.00	0.00	0.00	0.00	0.51	0.00	0.00
Delay/Veh:	0.0	7.9	0.0	13.5	3.2	0.0	0.0	0.0	0.0	30.2	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:	0.0	7.9	0.0	13.5	3.2	0.0	0.0	0.0	0.0	30.2	0.0	0.0
HCM2kAvg:	0	4	0	3	4	0	0	0	0	1	0	0

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

Intersection #2 Studebaker Rd/SR-22 EB Ramps

Cycle (sec): 60 Critical Vol./Cap. (X): 0.740
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 6.9
Optimal Cycle:OPTIMIZED Level Of Service: A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0 2	0	1	1 0 2	0	0	0 0 0	0	0	2 0 0	0	1
Volume Module:												
Base Vol:	0	871	1074	376	2099	0	0	0	0	36	0	112
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:	0	871	1074	376	2099	0	0	0	0	36	0	112
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	871	0	376	2099	0	0	0	0	36	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	871	0	376	2099	0	0	0	0	36	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	871	0	376	2099	0	0	0	0	36	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.92	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3610	1900	1805	3610	0	0	0	0	3502	0	1900
Capacity Analysis Module:												
Vol/Sat:	0.00	0.24	0.00	0.21	0.58	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Crit Moves:	****				****					****		
Green/Cycle:	0.00	0.42	0.00	0.36	0.79	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Volume/Cap:	0.00	0.57	0.00	0.57	0.74	0.00	0.00	0.00	0.00	0.74	0.00	0.00
Delay/Veh:	0.0	13.7	0.0	16.5	4.3	0.0	0.0	0.0	0.0	74.6	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:	0.0	13.7	0.0	16.5	4.3	0.0	0.0	0.0	0.0	74.6	0.0	0.0
HCM2kAvg:	0	7	0	7	12	0	0	0	0	1	0	0

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

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Intersection #6 PCH/7th St

****

Cycle (sec): 110 Critical Vol./Cap. (X): 1.025
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 48.3
Optimal Cycle:OPTIMIZED Level Of Service: D

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	2 0	3 0	0	0 0	2 1	0	0 0	2 0	1
Volume Module:												
Base Vol:	125	1277	2	415	688	0	0	2022	152	0	1845	585
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:	125	1277	2	415	688	0	0	2022	152	0	1845	585
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:	125	1277	2	415	688	0	0	2022	152	0	1845	585
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	125	1277	2	415	688	0	0	2022	152	0	1845	585
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 Vol.:	125	1277	2	415	688	0	0	2022	152	0	1845	585
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.91	0.92	0.91	1.00	1.00	0.90	0.90	1.00	0.95	0.85
Lanes:	1.00	2.99	0.01	2.00	3.00	0.00	0.00	2.79	0.21	0.00	2.00	1.00
Final Sat.:	1805	5179	8	3502	5187	0	0	4776	359	0	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.07	0.25	0.25	0.12	0.13	0.00	0.00	0.42	0.42	0.00	0.51	0.36
Crit Moves:		****		****			****				****	
Green/Cycle:	0.12	0.24	0.24	0.12	0.23	0.00	0.00	0.50	0.50	0.00	0.50	0.50
Volume/Cap:	0.57	1.03	1.03	1.03	0.57	0.00	0.00	0.85	0.85	0.00	1.03	0.73
Delay/Veh:	49.0	73.9	73.9	100.0	37.8	0.0	0.0	26.9	26.9	0.0	55.5	25.0
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:	49.0	73.9	73.9	100.0	37.8	0.0	0.0	26.9	26.9	0.0	55.5	25.0
HCM2kAvg:	5	21	21	12	7	0	0	24	24	0	40	16

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

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Intersection #6 PCH/7th St

****

Cycle (sec): 135 Critical Vol./Cap. (X): 1.072
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 66.5
Optimal Cycle:OPTIMIZED Level Of Service: E

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	2 0	3 0	0	0 0	2 1	0	0 0	2 0	1
Volume Module:												
Base Vol:	193	893	0	652	1191	0	0	2097	212	0	2119	438
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:	193	893	0	652	1191	0	0	2097	212	0	2119	438
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:	193	893	0	652	1191	0	0	2097	212	0	2119	438
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	193	893	0	652	1191	0	0	2097	212	0	2119	438
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 Vol.:	193	893	0	652	1191	0	0	2097	212	0	2119	438
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.91	0.92	0.91	1.00	1.00	0.90	0.90	1.00	0.95	0.85
Lanes:	1.00	3.00	0.00	2.00	3.00	0.00	0.00	2.72	0.28	0.00	2.00	1.00
Final Sat.:	1805	5187	0	3502	5187	0	0	4645	470	0	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.11	0.17	0.00	0.19	0.23	0.00	0.00	0.45	0.45	0.00	0.59	0.27
Crit Moves:		****		****			****				****	
Green/Cycle:	0.11	0.16	0.00	0.17	0.23	0.00	0.00	0.55	0.55	0.00	0.55	0.55
Volume/Cap:	1.01	1.07	0.00	1.07	1.01	0.00	0.00	0.82	0.82	0.00	1.07	0.50
Delay/Veh:	127.2	109	0.0	113.2	80.0	0.0	0.0	27.3	27.3	0.0	73.4	19.4
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:	127.2	109	0.0	113.2	80.0	0.0	0.0	27.3	27.3	0.0	73.4	19.4
HCM2kAvg:	13	19	0	21	22	0	0	28	28	0	57	11

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

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Intersection #7 PCH/Bellflower Blvd

****

Cycle (sec): 45 Critical Vol./Cap. (X): 0.718
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 16.1
Optimal Cycle:OPTIMIZED Level Of Service: B

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 1	0	1 0	2 0	1	1 1	2 0	1
Volume Module:												
Base Vol:	44	1315	423	20	815	20	119	461	19	209	127	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:	44	1315	423	20	815	20	119	461	19	209	127	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:	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:	44	1315	423	20	815	20	119	461	19	209	127	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	44	1315	423	20	815	20	119	461	19	209	127	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 Vol.:	44	1315	423	20	815	20	119	461	19	209	127	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.85	0.95	0.91	0.91	0.95	0.95	0.85	0.88	0.88	1.00
Lanes:	1.00	3.00	1.00	1.00	2.93	0.07	1.00	2.00	1.00	2.00	2.00	1.00
Final Sat.:	1805	5187	1615	1805	5043	124	1805	3610	1615	3354	3354	1900
Capacity Analysis Module:												
Vol/Sat:	0.02	0.25	0.26	0.01	0.16	0.16	0.07	0.13	0.01	0.06	0.04	0.00
Crit Moves:			****	****				****		****		
Green/Cycle:	0.05	0.36	0.36	0.02	0.33	0.33	0.18	0.18	0.18	0.09	0.09	0.00
Volume/Cap:	0.49	0.70	0.72	0.72	0.49	0.49	0.37	0.72	0.07	0.72	0.44	0.00
Delay/Veh:	25.0	13.3	16.6	84.6	12.3	12.3	17.0	21.4	15.5	25.3	19.9	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:	25.0	13.3	16.6	84.6	12.3	12.3	17.0	21.4	15.5	25.3	19.9	0.0
HCM2kAvg:	1	7	7	1	4	4	2	5	0	3	2	0

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

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Intersection #7 PCH/Bellflower Blvd

****

Cycle (sec): 50 Critical Vol./Cap. (X): 0.803
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 21.4
Optimal Cycle:OPTIMIZED Level Of Service: C

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 1	0	1 0	2 0	1	1 1	2 0	1
Volume Module:												
Base Vol:	134	969	382	98	1177	75	45	314	11	474	351	6
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:	134	969	382	98	1177	75	45	314	11	474	351	6
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:	134	969	382	98	1177	75	45	314	11	474	351	6
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	134	969	382	98	1177	75	45	314	11	474	351	6
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 Vol.:	134	969	382	98	1177	75	45	314	11	474	351	6
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.85	0.95	0.90	0.90	0.95	0.95	0.85	0.88	0.88	0.85
Lanes:	1.00	3.00	1.00	1.00	2.82	0.18	1.00	2.00	1.00	2.00	2.00	1.00
Final Sat.:	1805	5187	1615	1805	4832	308	1805	3610	1615	3361	3361	1615
Capacity Analysis Module:												
Vol/Sat:	0.07	0.19	0.24	0.05	0.24	0.24	0.02	0.09	0.01	0.14	0.10	0.00
Crit Moves:	****				****			****		****		
Green/Cycle:	0.09	0.32	0.32	0.07	0.30	0.30	0.11	0.11	0.11	0.18	0.18	0.18
Volume/Cap:	0.80	0.58	0.73	0.73	0.80	0.80	0.23	0.80	0.06	0.80	0.59	0.02
Delay/Veh:	45.9	14.6	20.4	41.6	19.1	19.1	21.0	33.1	20.2	24.4	19.7	17.1
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:	45.9	14.6	20.4	41.6	19.1	19.1	21.0	33.1	20.2	24.4	19.7	17.1
HCM2kAvg:	4	5	7	3	9	9	1	5	0	6	4	0

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

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Intersection #8 PCH/Loynes Dr

****

Cycle (sec): 45 Critical Vol./Cap. (X): 0.720
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 12.4
Optimal Cycle:OPTIMIZED Level Of Service: B

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	1 0	3 0	1	1 0	1 1	0	1 0	2 0	1
Volume Module:												
Base Vol:	48	1770	84	34	827	19	28	177	112	93	130	70
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:	48	1770	84	34	827	19	28	177	112	93	130	70
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:	48	1770	84	34	827	19	28	177	112	93	130	70
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	48	1770	84	34	827	19	28	177	112	93	130	70
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 Vol.:	48	1770	84	34	827	19	28	177	112	93	130	70
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.90	0.90	0.95	0.91	0.85	0.75	0.89	0.89	0.75	0.95	0.85
Lanes:	1.00	2.86	0.14	1.00	3.00	1.00	1.00	1.22	0.78	1.00	2.00	1.00
Final Sat.:	1805	4917	233	1805	5187	1615	1431	2083	1318	1431	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.03	0.36	0.36	0.02	0.16	0.01	0.02	0.08	0.08	0.07	0.04	0.04
Crit Moves:		****		****				****				
Green/Cycle:	0.08	0.50	0.50	0.03	0.45	0.45	0.12	0.12	0.12	0.12	0.12	0.12
Volume/Cap:	0.35	0.72	0.72	0.72	0.35	0.03	0.17	0.72	0.72	0.55	0.30	0.37
Delay/Veh:	21.4	9.8	9.8	63.5	8.2	6.9	18.3	25.3	25.3	22.6	18.6	19.5
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:	21.4	9.8	9.8	63.5	8.2	6.9	18.3	25.3	25.3	22.6	18.6	19.5
HCM2kAvg:	1	8	8	2	3	0	1	4	4	3	1	1

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

Intersection #8 PCH/Loynes Dr

Cycle (sec): 55 Critical Vol./Cap. (X): 0.832
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 18.6
Optimal Cycle:OPTIMIZED Level Of Service: B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	1 0	3 0	1	1 0	1 1	0	1 0	2 0	1
Volume Module:												
Base Vol:	163	1277	122	47	1690	32	31	203	103	185	322	51
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:	163	1277	122	47	1690	32	31	203	103	185	322	51
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:	163	1277	122	47	1690	32	31	203	103	185	322	51
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	163	1277	122	47	1690	32	31	203	103	185	322	51
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 Vol.:	163	1277	122	47	1690	32	31	203	103	185	322	51
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.90	0.90	0.95	0.91	0.85	0.55	0.90	0.90	0.56	0.95	0.85
Lanes:	1.00	2.74	0.26	1.00	3.00	1.00	1.00	1.33	0.67	1.00	2.00	1.00
Final Sat.:	1805	4673	445	1805	5187	1615	1051	2273	1153	1066	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.09	0.27	0.27	0.03	0.33	0.02	0.03	0.09	0.09	0.17	0.09	0.03
Crit Moves:	****				****					****		
Green/Cycle:	0.11	0.46	0.46	0.04	0.39	0.39	0.21	0.21	0.21	0.21	0.21	0.21
Volume/Cap:	0.83	0.60	0.60	0.60	0.83	0.05	0.14	0.43	0.43	0.83	0.43	0.15
Delay/Veh:	49.0	11.6	11.6	37.9	18.2	10.4	18.0	19.3	19.3	43.3	19.3	18.0
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:	49.0	11.6	11.6	37.9	18.2	10.4	18.0	19.3	19.3	43.3	19.3	18.0
HCM2kAvg:	6	7	7	2	12	0	1	3	3	8	3	1

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

Intersection #9 PCH/2nd St

Cycle (sec): 65 Critical Vol./Cap. (X): 0.888
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 28.9
Optimal Cycle:OPTIMIZED Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	2 0	2 1	0	1 0	2 1	0	2 0	2 1	1	2 0	3 0	1
Volume Module:												
Base Vol:	497	1150	406	114	668	179	183	1117	299	251	549	168
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:	497	1150	406	114	668	179	183	1117	299	251	549	168
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:	497	1150	406	114	668	179	183	1117	299	251	549	168
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	497	1150	406	114	668	179	183	1117	299	251	549	168
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 Vol.:	497	1150	406	114	668	179	183	1117	299	251	549	168
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.87	0.87	0.95	0.88	0.88	0.92	0.88	0.88	0.92	0.91	0.85
Lanes:	2.00	2.22	0.78	1.00	2.37	0.63	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3502	3684	1301	1805	3960	1061	3502	5021	1674	3502	5187	1615
Capacity Analysis Module:												
Vol/Sat:	0.14	0.31	0.31	0.06	0.17	0.17	0.05	0.22	0.18	0.07	0.11	0.10
Crit Moves:		****		****				****		****		
Green/Cycle:	0.19	0.35	0.35	0.07	0.23	0.23	0.11	0.25	0.25	0.08	0.22	0.22
Volume/Cap:	0.73	0.89	0.89	0.89	0.73	0.73	0.48	0.89	0.71	0.89	0.48	0.47
Delay/Veh:	28.9	25.9	25.9	77.1	25.7	25.7	28.1	30.0	23.5	56.6	22.3	22.9
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:	28.9	25.9	25.9	77.1	25.7	25.7	28.1	30.0	23.5	56.6	22.3	22.9
HCM2kAvg:	7	14	14	5	7	7	2	11	7	6	4	3

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

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Intersection #9 PCH/2nd St

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Cycle (sec): 95 Critical Vol./Cap. (X): 0.979
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 49.8
Optimal Cycle:OPTIMIZED Level Of Service: D

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	2 0	2 1	0	1 0	2 1	0	2 0	2 1	1	2 0	3 0	1
Volume Module:												
Base Vol:	338	1024	361	222	1328	482	496	1311	438	321	920	271
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:	338	1024	361	222	1328	482	496	1311	438	321	920	271
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:	338	1024	361	222	1328	482	496	1311	438	321	920	271
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	338	1024	361	222	1328	482	496	1311	438	321	920	271
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 Vol.:	338	1024	361	222	1328	482	496	1311	438	321	920	271
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.87	0.87	0.95	0.87	0.87	0.92	0.88	0.88	0.92	0.91	0.85
Lanes:	2.00	2.22	0.78	1.00	2.20	0.80	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3502	3685	1299	1805	3653	1326	3502	4992	1668	3502	5187	1615
Capacity Analysis Module:												
Vol/Sat:	0.10	0.28	0.28	0.12	0.36	0.36	0.14	0.26	0.26	0.09	0.18	0.17
Crit Moves:	****				****			****		****		
Green/Cycle:	0.10	0.33	0.33	0.14	0.37	0.37	0.16	0.27	0.27	0.09	0.20	0.20
Volume/Cap:	0.98	0.85	0.85	0.85	0.98	0.98	0.88	0.98	0.98	0.98	0.88	0.83
Delay/Veh:	85.4	34.5	34.5	62.5	45.7	45.7	54.1	51.1	51.1	86.9	45.8	53.2
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:	85.4	34.5	34.5	62.5	45.7	45.7	54.1	51.1	51.1	86.9	45.8	53.2
HCM2kAvg:	9	15	15	9	24	24	11	18	18	9	12	10

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

Intersection #100 PCH/Studebaker Rd

Cycle (sec): 55 Critical Vol./Cap. (X): 0.791
Loss Time (sec): 12 (Y-R = 4 sec) Average Delay (sec/veh): 15.2
Optimal Cycle:OPTIMIZED Level Of Service: B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	1 1	0 0	1	0 0	1! 0	0
Volume Module:												
Base Vol:	76	2216	17	8	1352	65	58	11	293	6	2	1
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:	76	2216	17	8	1352	65	58	11	293	6	2	1
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:	76	2216	17	8	1352	65	58	11	293	6	2	1
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	76	2216	17	8	1352	65	58	11	293	6	2	1
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 Vol.:	76	2216	17	8	1352	65	58	11	293	6	2	1
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.85	0.95	0.95	0.85	0.96	0.96	0.85	0.95	0.95	0.95
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	1.68	0.32	1.00	0.67	0.22	0.11
Final Sat.:	1805	5187	1615	1805	3610	1615	3066	582	1615	1208	403	201
Capacity Analysis Module:												
Vol/Sat:	0.04	0.43	0.01	0.00	0.37	0.04	0.02	0.02	0.18	0.00	0.00	0.00
Crit Moves:		****		****					****		****	
Green/Cycle:	0.06	0.54	0.54	0.01	0.49	0.49	0.23	0.23	0.23	0.01	0.01	0.01
Volume/Cap:	0.76	0.79	0.02	0.79	0.76	0.08	0.08	0.08	0.79	0.79	0.79	0.79
Delay/Veh:	54.4	11.7	5.9	190.9	13.4	7.5	16.7	16.7	30.9	179.5	179	179.5
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:	54.4	11.7	5.9	190.9	13.4	7.5	16.7	16.7	30.9	179.5	179	179.5
HCM2kAvg:	3	12	0	1	11	1	1	1	7	1	1	1

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

Intersection #100 PCH/Studebaker Rd

Cycle (sec): 110 Critical Vol./Cap. (X): 1.017
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 46.2
Optimal Cycle:OPTIMIZED Level Of Service: D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	1 1	0 0	1	0 0	1! 0	0
Volume Module:												
Base Vol:	147	1470	18	19	1892	66	194	13	377	71	32	18
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:	147	1470	18	19	1892	66	194	13	377	71	32	18
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:	147	1470	18	19	1892	66	194	13	377	71	32	18
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	147	1470	18	19	1892	66	194	13	377	71	32	18
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 Vol.:	147	1470	18	19	1892	66	194	13	377	71	32	18
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.85	0.95	0.95	0.85	0.96	0.96	0.85	0.95	0.95	0.95
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	1.87	0.13	1.00	0.59	0.26	0.15
Final Sat.:	1805	5187	1615	1805	3610	1615	3401	228	1615	1061	478	269
Capacity Analysis Module:												
Vol/Sat:	0.08	0.28	0.01	0.01	0.52	0.04	0.06	0.06	0.23	0.07	0.07	0.07
Crit Moves:	****				****				****		****	
Green/Cycle:	0.08	0.57	0.57	0.02	0.52	0.52	0.23	0.23	0.23	0.07	0.07	0.07
Volume/Cap:	1.02	0.49	0.02	0.49	1.02	0.08	0.25	0.25	1.02	1.02	1.02	1.02
Delay/Veh:	130.0	14.0	10.1	62.9	51.8	13.5	34.8	34.6	93.4	138.4	138	138.4
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:	130.0	14.0	10.1	62.9	51.8	13.5	34.8	34.8	93.4	138.4	138	138.4
HCM2kAvg:	9	10	0	1	41	1	3	3	19	8	8	8

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

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Intersection #1 Studebaker Rd/SR-22 WB Ramps

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Cycle (sec): 35 Critical Vol./Cap. (X): 0.683
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 12.3
Optimal Cycle:OPTIMIZED Level Of Service: B

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	465	37	56	706	0	0	0	0	886	0	1
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:	0	465	37	56	706	0	0	0	0	886	0	1
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	465	0	56	706	0	0	0	0	886	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	465	0	56	706	0	0	0	0	886	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	465	0	56	706	0	0	0	0	886	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.92	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3610	1900	1805	3610	0	0	0	0	3502	0	1900
Capacity Analysis Module:												
Vol/Sat:	0.00	0.13	0.00	0.03	0.20	0.00	0.00	0.00	0.00	0.25	0.00	0.00
Crit Moves:	****				****					****		
Green/Cycle:	0.00	0.23	0.00	0.06	0.29	0.00	0.00	0.00	0.00	0.37	0.00	0.00
Volume/Cap:	0.00	0.56	0.00	0.56	0.68	0.00	0.00	0.00	0.00	0.68	0.00	0.00
Delay/Veh:	0.0	12.7	0.0	22.9	13.0	0.0	0.0	0.0	0.0	10.8	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:	0.0	12.7	0.0	22.9	13.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0
HCM2kAvg:	0	3	0	2	5	0	0	0	0	6	0	0

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

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Intersection #2 Studebaker Rd/SR-22 EB Ramps

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Cycle (sec): 55 Critical Vol./Cap. (X): 0.503
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 4.6
Optimal Cycle:OPTIMIZED Level Of Service: A

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0 2	0	1	1 0 2	0	0	0 0 0	0	0	2 0 0	0	1
Volume Module:												
Base Vol:	0	466	1044	148	1421	0	0	0	0	13	0	42
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:	0	466	1044	148	1421	0	0	0	0	13	0	42
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	466	0	148	1421	0	0	0	0	13	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	466	0	148	1421	0	0	0	0	13	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	466	0	148	1421	0	0	0	0	13	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.92	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3610	1900	1805	3610	0	0	0	0	3502	0	1900
Capacity Analysis Module:												
Vol/Sat:	0.00	0.13	0.00	0.08	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crit Moves:	****				****						****	
Green/Cycle:	0.00	0.48	0.00	0.30	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Volume/Cap:	0.00	0.27	0.00	0.27	0.50	0.00	0.00	0.00	0.00	xxxx	0.00	0.00
Delay/Veh:	0.0	8.7	0.0	14.8	2.3	0.0	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:	0.0	8.7	0.0	14.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HCM2kAvg:	0	3	0	2	5	0	0	0	0	2	0	0

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

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Intersection #6 PCH/7th St

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Cycle (sec): 60 Critical Vol./Cap. (X): 0.841
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 24.7
Optimal Cycle:OPTIMIZED Level Of Service: C

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	2 0	3 0	0	0 0	2 1	0	0 0	2 0	1
Volume Module:												
Base Vol:	171	763	23	482	926	0	0	1490	191	0	1179	431
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:	171	763	23	482	926	0	0	1490	191	0	1179	431
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:	171	763	23	482	926	0	0	1490	191	0	1179	431
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	171	763	23	482	926	0	0	1490	191	0	1179	431
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 Vol.:	171	763	23	482	926	0	0	1490	191	0	1179	431
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.91	0.92	0.91	1.00	1.00	0.89	0.89	1.00	0.95	0.85
Lanes:	1.00	2.91	0.09	2.00	3.00	0.00	0.00	2.66	0.34	0.00	2.00	1.00
Final Sat.:	1805	5015	151	3502	5187	0	0	4519	579	0	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.09	0.15	0.15	0.14	0.18	0.00	0.00	0.33	0.33	0.00	0.33	0.27
Crit Moves:		****		****			****				****	
Green/Cycle:	0.12	0.18	0.18	0.16	0.23	0.00	0.00	0.39	0.39	0.00	0.39	0.39
Volume/Cap:	0.79	0.84	0.84	0.84	0.79	0.00	0.00	0.85	0.85	0.00	0.84	0.69
Delay/Veh:	43.6	30.6	30.6	35.0	25.7	0.0	0.0	20.4	20.4	0.0	21.4	18.5
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:	43.6	30.6	30.6	35.0	25.7	0.0	0.0	20.4	20.4	0.0	21.4	18.5
HCM2kAvg:	6	8	8	7	8	0	0	13	13	0	13	8

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

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Intersection #7 PCH/Bellflower Blvd

****

Cycle (sec): 45 Critical Vol./Cap. (X): 0.727
Loss Time (sec): 16 (Y-R = 4 sec) Average Delay (sec/veh): 37.7
Optimal Cycle:OPTIMIZED Level Of Service: B

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 1	0	1 0	2 0	1	1 1	2 0	1
Volume Module:												
Base Vol:	76	898	374	46	1028	37	55	210	46	512	274	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:	76	898	374	46	1028	37	55	210	46	512	274	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:	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:	76	898	374	46	1028	37	55	210	46	512	274	21
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	76	898	374	46	1028	37	55	210	46	512	274	21
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 Vol.:	76	898	374	46	1028	37	55	210	46	512	274	21
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.85	0.95	0.91	0.91	0.95	0.95	0.85	0.88	0.88	0.85
Lanes:	1.00	3.00	1.00	1.00	2.90	0.10	1.00	2.00	1.00	2.00	2.00	1.00
Final Sat.:	1805	5187	1615	1805	4982	179	1805	3610	1615	3347	3347	1615
Capacity Analysis Module:												
Vol/Sat:	0.04	0.17	0.23	0.03	0.21	0.21	0.03	0.06	0.03	0.15	0.08	0.01
Crit Moves:			****	****				****		****		
Green/Cycle:	0.06	0.32	0.32	0.04	0.29	0.29	0.08	0.08	0.08	0.21	0.21	0.21
Volume/Cap:	0.70	0.54	0.73	0.73	0.70	0.70	0.38	0.73	0.36	0.73	0.39	0.06
Delay/Veh:	39.4	13.0	18.7	55.6	15.6	15.6	21.3	29.1	21.3	19.1	15.4	14.3
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:	39.4	13.0	18.7	55.6	15.6	15.6	21.3	29.1	21.3	19.1	15.4	14.3
HCM2kAvg:	3	4	6	2	6	6	1	3	1	5	2	0

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

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Intersection #8 PCH/Loynes Dr

****

Cycle (sec): 55 Critical Vol./Cap. (X): 0.808
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 18.7
Optimal Cycle:OPTIMIZED Level Of Service: B

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	1 0	3 0	1	1 0	1 1	0	1 0	2 0	1
Volume Module:												
Base Vol:	142	823	140	27	1514	12	34	124	127	227	140	24
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:	142	823	140	27	1514	12	34	124	127	227	140	24
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:	142	823	140	27	1514	12	34	124	127	227	140	24
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	142	823	140	27	1514	12	34	124	127	227	140	24
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 Vol.:	142	823	140	27	1514	12	34	124	127	227	140	24
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.89	0.89	0.95	0.91	0.85	0.66	0.88	0.88	0.59	0.95	0.85
Lanes:	1.00	2.56	0.44	1.00	3.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00
Final Sat.:	1805	4335	737	1805	5187	1615	1250	1668	1668	1121	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.08	0.19	0.19	0.01	0.29	0.01	0.03	0.07	0.08	0.20	0.04	0.01
Crit Moves:	****				****					****		
Green/Cycle:	0.10	0.43	0.43	0.03	0.36	0.36	0.25	0.25	0.25	0.25	0.25	0.25
Volume/Cap:	0.81	0.45	0.45	0.45	0.81	0.02	0.11	0.30	0.30	0.81	0.15	0.06
Delay/Veh:	47.8	11.4	11.4	31.3	18.6	11.3	16.0	16.9	16.9	35.2	16.1	15.7
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:	47.8	11.4	11.4	31.3	18.6	11.3	16.0	16.9	16.9	35.2	16.1	15.7
HCM2kAvg:	5	4	4	1	10	0	1	2	2	9	1	0

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

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Intersection #9 PCH/2nd St

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Cycle (sec): 70 Critical Vol./Cap. (X): 0.899
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 36.1
Optimal Cycle:OPTIMIZED Level Of Service: D

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	2 0	2 1	0	1 0	2 1	0	2 0	2 1	1	2 0	3 0	1
Volume Module:												
Base Vol:	353	986	173	241	980	227	512	1135	314	369	959	191
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:	353	986	173	241	980	227	512	1135	314	369	959	191
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:	353	986	173	241	980	227	512	1135	314	369	959	191
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	353	986	173	241	980	227	512	1135	314	369	959	191
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 Vol.:	353	986	173	241	980	227	512	1135	314	369	959	191
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.89	0.89	0.95	0.88	0.88	0.92	0.88	0.88	0.92	0.91	0.85
Lanes:	2.00	2.55	0.45	1.00	2.44	0.56	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3502	4316	757	1805	4094	948	3502	5016	1672	3502	5187	1615
Capacity Analysis Module:												
Vol/Sat:	0.10	0.23	0.23	0.13	0.24	0.24	0.15	0.23	0.19	0.11	0.18	0.12
Crit Moves:		****		****				****		****		
Green/Cycle:	0.12	0.25	0.25	0.15	0.28	0.28	0.16	0.25	0.25	0.12	0.21	0.21
Volume/Cap:	0.85	0.90	0.90	0.90	0.85	0.85	0.90	0.90	0.75	0.90	0.90	0.57
Delay/Veh:	44.8	34.0	34.0	59.5	28.5	28.5	45.7	32.5	25.8	52.6	37.2	27.5
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:	44.8	34.0	34.0	59.5	28.5	28.5	45.7	32.5	25.8	52.6	37.2	27.5
HCM2kAvg:	7	12	12	9	11	11	9	12	8	7	10	5

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

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Intersection #100 PCH/Studebaker Rd

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Cycle (sec): 70 Critical Vol./Cap. (X): 0.883
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 20.5
Optimal Cycle:OPTIMIZED Level Of Service: C

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	1 1	0 0	1	0 0	1! 0	0
Volume Module:												
Base Vol:	130	1520	29	29	1734	165	185	21	188	60	40	14
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:	130	1520	29	29	1734	165	185	21	188	60	40	14
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:	130	1520	29	29	1734	165	185	21	188	60	40	14
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	130	1520	29	29	1734	165	185	21	188	60	40	14
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 Vol.:	130	1520	29	29	1734	165	185	21	188	60	40	14
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.85	0.95	0.95	0.85	0.96	0.96	0.85	0.96	0.96	0.96
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	1.80	0.20	1.00	0.53	0.35	0.12
Final Sat.:	1805	5187	1615	1805	3610	1615	3266	371	1615	957	638	223
Capacity Analysis Module:												
Vol/Sat:	0.07	0.29	0.02	0.02	0.48	0.10	0.06	0.06	0.12	0.06	0.06	0.06
Crit Moves:	****				****				****			****
Green/Cycle:	0.08	0.59	0.59	0.03	0.54	0.54	0.13	0.13	0.13	0.07	0.07	0.07
Volume/Cap:	0.88	0.49	0.03	0.49	0.88	0.19	0.43	0.43	0.88	0.88	0.88	0.88
Delay/Veh:	73.6	8.3	5.9	39.7	19.1	8.2	28.6	28.6	62.0	77.9	77.9	77.9
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:	73.6	8.3	5.9	39.7	19.1	8.2	28.6	28.6	62.0	77.9	77.9	77.9
HCM2kAvg:	6	7	0	1	20	2	3	3	7	5	5	5

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #1 Studebaker Rd/SR-22 WB Ramps

Cycle (sec): 40 Critical Vol./Cap. (X): 0.685
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 13.7
Optimal Cycle:OPTIMIZED Level Of Service: B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0 2	0	1	1 0 2	0	0	0 0 0	0	0	2 0 0	0	1
Volume Module:												
Base Vol:	0	725	41	79	852	0	0	0	0	644	0	559
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	744	42	81	874	0	0	0	0	661	0	574
Added Vol:	0	9	0	0	14	0	0	0	0	11	0	0
PasserByVol:	0	1	0	0	2	0	0	0	0	120	0	0
Initial Fut:	0	754	42	81	890	0	0	0	0	792	0	574
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	754	0	81	890	0	0	0	0	792	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	754	0	81	890	0	0	0	0	792	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	754	0	81	890	0	0	0	0	792	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.92	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3610	1900	1805	3610	0	0	0	0	3502	0	1900
Capacity Analysis Module:												
Vol/Sat:	0.00	0.21	0.00	0.04	0.25	0.00	0.00	0.00	0.00	0.23	0.00	0.00
Crit Moves:		****		****						****		
Green/Cycle:	0.00	0.30	0.00	0.07	0.37	0.00	0.00	0.00	0.00	0.33	0.00	0.00
Volume/Cap:	0.00	0.69	0.00	0.69	0.67	0.00	0.00	0.00	0.00	0.69	0.00	0.00
Delay/Veh:	0.0	14.0	0.0	33.7	11.8	0.0	0.0	0.0	0.0	13.3	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:	0.0	14.0	0.0	33.7	11.8	0.0	0.0	0.0	0.0	13.3	0.0	0.0
HCM2kAvg:	0	6	0	3	6	0	0	0	0	6	0	0

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #1 Studebaker Rd/SR-22 WB Ramps

Cycle (sec): 70 Critical Vol./Cap. (X): 0.901
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 25.6
Optimal Cycle:OPTIMIZED Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	941	56	73	1375	0	0	0	0	1110	0	320
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	965	57	75	1411	0	0	0	0	1139	0	328
Added Vol:	0	47	0	0	43	0	0	0	0	32	0	0
PasserByVol:	0	2	0	0	2	0	0	0	0	30	0	0
Initial Fut:	0	1014	57	75	1456	0	0	0	0	1201	0	328
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	1014	0	75	1456	0	0	0	0	1201	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1014	0	75	1456	0	0	0	0	1201	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	1014	0	75	1456	0	0	0	0	1201	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.92	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3610	1900	1805	3610	0	0	0	0	3502	0	1900
Capacity Analysis Module:												
Vol/Sat:	0.00	0.28	0.00	0.04	0.40	0.00	0.00	0.00	0.00	0.34	0.00	0.00
Crit Moves:	****				****					****		
Green/Cycle:	0.00	0.39	0.00	0.06	0.45	0.00	0.00	0.00	0.00	0.38	0.00	0.00
Volume/Cap:	0.00	0.72	0.00	0.72	0.90	0.00	0.00	0.00	0.00	0.90	0.00	0.00
Delay/Veh:	0.0	19.9	0.0	54.0	25.2	0.0	0.0	0.0	0.0	29.0	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:	0.0	19.9	0.0	54.0	25.2	0.0	0.0	0.0	0.0	29.0	0.0	0.0
HCM2kAvg:	0	11	0	3	19	0	0	0	0	17	0	0

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

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Intersection #2 Studebaker Rd/SR-22 EB Ramps

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Cycle (sec): 50 Critical Vol./Cap. (X): 0.533
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 5.9
Optimal Cycle:OPTIMIZED Level Of Service: A

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0 2	0	1	1 0 2	0	0	0 0 0	0	0	2 0 0	0	1
Volume Module:												
Base Vol:	0	710	1351	194	1263	0	0	0	0	20	0	107
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	728	1386	199	1296	0	0	0	0	21	0	110
Added Vol:	0	9	7	0	25	0	0	0	0	0	0	0
PasserByVol:	0	1	24	0	121	0	0	0	0	0	0	0
Initial Fut:	0	738	1417	199	1442	0	0	0	0	21	0	110
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	738	0	199	1442	0	0	0	0	21	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	738	0	199	1442	0	0	0	0	21	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	738	0	199	1442	0	0	0	0	21	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.92	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3610	1900	1805	3610	0	0	0	0	3502	0	1900
Capacity Analysis Module:												
Vol/Sat:	0.00	0.20	0.00	0.11	0.40	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Crit Moves:	****				****					****		
Green/Cycle:	0.00	0.49	0.00	0.26	0.75	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Volume/Cap:	0.00	0.42	0.00	0.42	0.53	0.00	0.00	0.00	0.00	0.53	0.00	0.00
Delay/Veh:	0.0	8.4	0.0	15.9	2.8	0.0	0.0	0.0	0.0	38.3	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:	0.0	8.4	0.0	15.9	2.8	0.0	0.0	0.0	0.0	38.3	0.0	0.0
HCM2kAvg:	0	4	0	3	5	0	0	0	0	1	0	0

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #2 Studebaker Rd/SR-22 EB Ramps

Cycle (sec): 65 Critical Vol./Cap. (X): 0.781
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 9.6
Optimal Cycle:OPTIMIZED Level Of Service: A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	871	1074	376	2099	0	0	0	0	36	0	112
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	894	1102	386	2154	0	0	0	0	37	0	115
Added Vol:	0	47	35	0	76	0	0	0	0	0	0	0
PasserByVol:	0	2	129	0	32	0	0	0	0	0	0	0
Initial Fut:	0	943	1266	386	2262	0	0	0	0	37	0	115
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	943	0	386	2262	0	0	0	0	37	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	943	0	386	2262	0	0	0	0	37	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	943	0	386	2262	0	0	0	0	37	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.92	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3610	1900	1805	3610	0	0	0	0	3502	0	1900
Capacity Analysis Module:												
Vol/Sat:	0.00	0.26	0.00	0.21	0.63	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Crit Moves:	****				****					****		
Green/Cycle:	0.00	0.44	0.00	0.36	0.80	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Volume/Cap:	0.00	0.59	0.00	0.59	0.78	0.00	0.00	0.00	0.00	0.78	0.00	0.00
Delay/Veh:	0.0	24.3	0.0	18.3	4.8	0.0	0.0	0.0	0.0	68.4	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:	0.0	14.3	0.0	18.3	4.8	0.0	0.0	0.0	0.0	88.4	0.0	0.0
HCM2kAvg:	0	8	0	7	14	0	0	0	0	2	0	0

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

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Intersection #6 PCH/7th St

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Cycle (sec): 120 Critical Vol./Cap. (X): 1.042
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 53.9
Optimal Cycle:OPTIMIZED Level Of Service: D

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	2 0	3 0	0	0 0	2 1	0	0 0	2 0	1
Volume Module:												
Base Vol:	125	1277	2	415	688	0	0	2022	152	0	1845	585
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	128	1310	2	426	706	0	0	2075	156	0	1893	600
Added Vol:	5	5	0	0	7	0	0	0	7	0	0	0
PasserByVol:	7	17	0	0	84	0	0	0	36	0	0	0
Initial Fut:	140	1332	2	426	797	0	0	2075	199	0	1893	600
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:	140	1332	2	426	797	0	0	2075	199	0	1893	600
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	140	1332	2	426	797	0	0	2075	199	0	1893	600
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 Vol.:	140	1332	2	426	797	0	0	2075	199	0	1893	600
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.91	0.92	0.91	1.00	1.00	0.90	0.90	1.00	0.95	0.85
Lanes:	1.00	2.99	0.01	2.00	3.00	0.00	0.00	2.74	0.26	0.00	2.00	1.00
Final Sat.:	1805	5179	8	3502	5187	0	0	4672	448	0	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.08	0.26	0.26	0.12	0.15	0.00	0.00	0.44	0.44	0.00	0.52	0.37
Crit Moves:		****		****			****				****	
Green/Cycle:	0.12	0.25	0.25	0.12	0.24	0.00	0.00	0.50	0.50	0.00	0.50	0.50
Volume/Cap:	0.64	1.04	1.04	1.04	0.64	0.00	0.00	0.88	0.88	0.00	1.04	0.74
Delay/Veh:	56.2	82.0	82.0	108.9	41.9	0.0	0.0	30.6	30.6	0.0	62.8	27.2
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:	56.2	82.0	82.0	108.9	41.9	0.0	0.0	30.6	30.6	0.0	62.8	27.2
HCM2kAvg:	6	23	23	13	10	0	0	28	28	0	45	18

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #6 PCH/7th St

Cycle (sec): 145 Critical Vol./Cap. (X): 1.115
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 84.7
Optimal Cycle:OPTIMIZED Level Of Service: F

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	2 0	3 0	0	0 0	2 1	0	0 0	2 0	1
Volume Module:												
Base Vol:	193	893	0	652	1191	0	0	2097	212	0	2119	438
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	198	916	0	669	1222	0	0	2152	218	0	2174	449
Added Vol:	23	23	0	0	22	0	0	0	22	0	0	0
PasserByVol:	39	91	0	0	22	0	0	0	9	0	0	0
Initial Fut:	260	1030	0	669	1266	0	0	2152	249	0	2174	449
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:	260	1030	0	669	1266	0	0	2152	249	0	2174	449
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	260	1030	0	669	1266	0	0	2152	249	0	2174	449
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 Vol.:	260	1030	0	669	1266	0	0	2152	249	0	2174	449
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.91	0.92	0.91	1.00	1.00	0.90	0.90	1.00	0.95	0.85
Lanes:	1.00	3.00	0.00	2.00	3.00	0.00	0.00	2.69	0.31	0.00	2.00	1.00
Final Sat.:	1805	5187	0	3502	5187	0	0	4576	528	0	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.14	0.20	0.00	0.19	0.24	0.00	0.00	0.47	0.47	0.00	0.60	0.28
Crit Moves:		****		****			****				****	
Green/Cycle:	0.13	0.18	0.00	0.17	0.22	0.00	0.00	0.54	0.54	0.00	0.54	0.54
Volume/Cap:	1.11	1.11	0.00	1.11	1.11	0.00	0.00	0.87	0.87	0.00	1.11	0.52
Delay/Veh:	154.8	126	0.0	132.6	119	0.0	0.0	32.2	32.2	0.0	92.8	21.8
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:	154.8	126	0.0	132.6	119	0.0	0.0	32.2	32.2	0.0	92.8	21.8
HCM2kAvg:	19	23	0	23	27	0	0	33	33	0	64	13

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #7 PCH/Bellflower Blvd

Cycle (sec): 45 Critical Vol./Cap. (X): 0.739
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 16.9
Optimal Cycle:OPTIMIZED Level Of Service: B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 1	0	1 0	2 0	1	1 1	2 0	1
Volume Module:												
Base Vol:	44	1315	423	20	815	20	119	461	19	209	127	0
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	45	1349	434	21	836	21	122	473	19	214	130	0
Added Vol:	0	9	7	0	14	0	0	0	0	11	0	0
PasserByVol:	0	24	0	0	120	0	0	0	0	0	0	0
Initial Fut:	45	1382	441	21	970	21	122	473	19	225	130	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:	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:	45	1382	441	21	970	21	122	473	19	225	130	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	45	1382	441	21	970	21	122	473	19	225	130	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 Vol.:	45	1382	441	21	970	21	122	473	19	225	130	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.85	0.95	0.91	0.91	0.95	0.95	0.85	0.88	0.88	1.00
Lanes:	1.00	3.00	1.00	1.00	2.94	0.06	1.00	2.00	1.00	2.00	2.00	1.00
Final Sat.:	1805	5187	1615	1805	5064	107	1805	3610	1615	3351	3351	1900
Capacity Analysis Module:												
Vol/Sat:	0.03	0.27	0.27	0.01	0.19	0.19	0.07	0.13	0.01	0.07	0.04	0.00
Crit Moves:		****		****				****		****		
Green/Cycle:	0.04	0.36	0.36	0.02	0.33	0.33	0.18	0.18	0.18	0.09	0.09	0.00
Volume/Cap:	0.58	0.74	0.76	0.74	0.58	0.58	0.38	0.74	0.07	0.74	0.43	0.00
Delay/Veh:	31.2	14.1	18.3	90.8	12.9	12.9	17.1	22.1	15.5	25.9	19.7	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:	31.2	14.1	18.3	90.8	12.9	12.9	17.1	22.1	15.5	25.9	19.7	0.0
HCM2kAvg:	2	8	8	2	5	5	2	5	0	3	1	0

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #7 PCH/Bellflower Blvd

Cycle (sec): 83 Critical Vol./Cap. (X): 0.824
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 23.3
Optimal Cycle:OPTIMIZED Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 1	0	1 0	2 0	1	1 1	2 0	1
Volume Module:												
Base Vol:	134	969	382	98	1177	75	45	314	11	474	351	6
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	137	994	392	101	1208	77	46	322	11	486	360	6
Added Vol:	0	47	35	0	43	0	0	0	0	32	0	0
PasserByVol:	0	130	0	0	31	0	0	0	0	0	0	0
Initial Fut:	137	1171	427	101	1282	77	46	322	11	518	360	6
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:	137	1171	427	101	1282	77	46	322	11	518	360	6
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	137	1171	427	101	1282	77	46	322	11	518	360	6
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 Vol.:	137	1171	427	101	1282	77	46	322	11	518	360	6
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.85	0.95	0.90	0.90	0.95	0.95	0.85	0.88	0.88	0.85
Lanes:	1.00	3.00	1.00	1.00	2.83	0.17	1.00	2.00	1.00	2.00	2.00	1.00
Final Sat.:	1805	5187	1615	1805	4849	291	1805	3610	1615	3358	3358	1615
Capacity Analysis Module:												
Vol/Sat:	0.08	0.23	0.26	0.06	0.26	0.26	0.03	0.09	0.01	0.15	0.11	0.00
Crit Moves:	****				****			****		****		
Green/Cycle:	0.09	0.34	0.34	0.07	0.32	0.32	0.11	0.11	0.11	0.19	0.19	0.19
Volume/Cap:	0.82	0.66	0.77	0.77	0.82	0.82	0.24	0.82	0.06	0.82	0.57	0.02
Delay/Veh:	51.5	16.4	23.0	49.7	20.7	20.7	23.1	37.2	22.2	26.8	20.9	18.3
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:	51.5	16.4	23.0	49.7	20.7	20.7	23.1	37.2	22.2	26.8	20.9	18.3
HCM2kAvg:	5	7	9	4	10	10	1	5	0	7	4	0

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

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Intersection #8 PCH/Loynes Dr

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Cycle (sec): 55 Critical Vol./Cap. (X): 0.759
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 15.8
Optimal Cycle:OPTIMIZED Level Of Service: B

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	1 0	3 0	1	1 0	1 1	0	1 0	2 0	1
Volume Module:												
Base Vol:	48	1770	84	34	827	19	28	177	112	93	130	70
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	49	1816	86	35	849	19	29	182	115	95	133	72
Added Vol:	1	16	1	0	25	0	0	0	1	2	0	0
PasserByVol:	0	24	0	0	120	0	0	0	0	0	0	0
Initial Fut:	50	1856	87	35	994	19	29	182	116	97	133	72
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:	50	1856	87	35	994	19	29	182	116	97	133	72
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	50	1856	87	35	994	19	29	182	116	97	133	72
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 Vol.:	50	1856	87	35	994	19	29	182	116	97	133	72
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.90	0.90	0.95	0.91	0.85	0.95	0.89	0.89	0.95	0.95	0.85
Lanes:	1.00	2.87	0.13	1.00	3.00	1.00	1.00	1.22	0.78	1.00	2.00	1.00
Final Sat.:	1805	4920	231	1805	5187	1615	1805	2076	1325	1805	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.03	0.38	0.38	0.02	0.19	0.01	0.02	0.09	0.09	0.05	0.04	0.04
Crit Moves:		****		****				****		****		
Green/Cycle:	0.07	0.50	0.50	0.03	0.46	0.46	0.05	0.12	0.12	0.07	0.14	0.14
Volume/Cap:	0.42	0.76	0.76	0.76	0.42	0.03	0.32	0.76	0.76	0.76	0.27	0.32
Delay/Veh:	27.0	12.5	12.5	78.5	10.2	8.2	27.4	31.9	31.9	47.8	21.5	22.3
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:	27.0	12.5	12.5	78.5	10.2	8.2	27.4	31.9	31.9	47.8	21.5	22.3
HCM2kAvg:	1	11	11	2	4	0	1	4	4	4	1	1

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #8 PCH/Loynes Dr

Cycle (sec): 65 Critical Vol./Cap. (X): 0.865
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 23.8
Optimal Cycle:OPTIMIZED Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	1 0	3 0	1	1 0	1 1	0	1 0	2 0	1
Volume Module:												
Base Vol:	163	1277	122	47	1690	32	31	203	103	185	322	51
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	167	1310	125	48	1734	33	32	208	106	190	330	52
Added Vol:	5	82	7	0	76	0	0	0	4	6	0	0
PasserByVol:	0	130	0	0	31	0	0	0	0	0	0	0
Initial Fut:	172	1522	132	48	1841	33	32	208	110	196	330	52
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:	172	1522	132	48	1841	33	32	208	110	196	330	52
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	172	1522	132	48	1841	33	32	208	110	196	330	52
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 Vol.:	172	1522	132	48	1841	33	32	208	110	196	330	52
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.90	0.90	0.95	0.91	0.85	0.95	0.90	0.90	0.95	0.95	0.85
Lanes:	1.00	2.76	0.24	1.00	3.00	1.00	1.00	1.31	0.69	1.00	2.00	1.00
Final Sat.:	1805	4715	409	1805	5187	1615	1805	2242	1181	1805	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.10	0.32	0.32	0.03	0.35	0.02	0.02	0.09	0.09	0.11	0.09	0.03
Crit Moves:	****				****			****		****		
Green/Cycle:	0.11	0.48	0.48	0.04	0.41	0.41	0.04	0.11	0.11	0.13	0.20	0.20
Volume/Cap:	0.86	0.67	0.67	0.67	0.86	0.05	0.47	0.86	0.86	0.86	0.47	0.17
Delay/Veh:	58.6	13.7	13.7	52.7	21.5	11.6	35.7	47.3	47.3	55.3	23.7	22.0
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:	58.6	13.7	13.7	52.7	21.5	11.6	35.7	47.3	47.3	55.3	23.7	22.0
HCM2kAvg:	7	10	10	2	15	0	1	6	6	7	3	1

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #9 PCH/2nd St

Cycle (sec): 70 Critical Vol./Cap. (X): 0.908
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 31.2
Optimal Cycle:OPTIMIZED Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	2 0	2 1	0	2 0	3 0	1	2 0	2 1	1	2 0	3 0	1
Volume Module:												
Base Vol:	497	1150	406	114	668	179	183	1117	299	251	549	168
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	510	1180	417	117	685	184	188	1146	307	258	563	172
Added Vol:	7	18	18	0	28	0	0	0	11	28	0	0
PasserByVol:	1	9	0	80	40	0	0	24	8	0	11	13
Initial Fut:	518	1207	435	197	753	184	188	1170	326	286	574	185
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:	518	1207	435	197	753	184	188	1170	326	286	574	185
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	518	1207	435	197	753	184	188	1170	326	286	574	185
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 Vol.:	518	1207	435	197	753	184	188	1170	326	286	574	185
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.87	0.87	0.92	0.91	0.85	0.92	0.88	0.88	0.92	0.91	0.85
Lanes:	2.00	2.21	0.79	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3502	3661	1318	3502	5187	1615	3502	5016	1672	3502	5187	1615
Capacity Analysis Module:												
Vol/Sat:	0.15	0.33	0.33	0.06	0.15	0.11	0.05	0.23	0.19	0.08	0.11	0.11
Crit Moves:		****		****				****		****		
Green/Cycle:	0.21	0.36	0.36	0.06	0.21	0.21	0.11	0.26	0.26	0.09	0.24	0.24
Volume/Cap:	0.69	0.91	0.91	0.91	0.69	0.54	0.49	0.91	0.76	0.91	0.47	0.49
Delay/Veh:	28.1	28.4	28.4	69.6	27.4	26.4	30.2	33.0	25.8	60.2	23.2	24.0
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:	28.1	28.4	28.4	69.6	27.4	26.4	30.2	33.0	25.8	60.2	23.2	24.0
HCM2kAvg:	7	16	16	5	6	4	3	12	8	6	4	4

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #9 PCH/2nd St

Cycle (sec): 95 Critical Vol./Cap. (X): 0.979
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 50.5
Optimal Cycle:OPTIMIZED Level Of Service: D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	2 0	2 1	0	2 0	3 0	1	2 0	2 1	1	2 0	3 0	1
Volume Module:												
Base Vol:	338	1024	361	222	1328	482	496	1311	438	321	920	271
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	347	1051	370	228	1363	495	509	1345	449	329	944	278
Added Vol:	35	94	94	0	86	0	0	0	32	86	0	0
PasserByVol:	9	53	0	25	6	0	0	17	1	0	27	76
Initial Fut:	391	1198	464	253	1455	495	509	1362	482	415	971	354
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:	391	1198	464	253	1455	495	509	1362	482	415	971	354
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	391	1198	464	253	1455	495	509	1362	482	415	971	354
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 Vol.:	391	1198	464	253	1455	495	509	1362	482	415	971	354
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.87	0.87	0.92	0.91	0.85	0.92	0.87	0.87	0.92	0.91	0.85
Lanes:	2.00	2.16	0.84	2.00	3.00	1.00	2.00	2.95	1.05	2.00	3.00	1.00
Final Sat.:	3502	3581	1388	3502	5187	1615	3502	4908	1738	3502	5187	1615
Capacity Analysis Module:												
Vol/Sat:	0.11	0.33	0.33	0.07	0.28	0.31	0.15	0.28	0.28	0.12	0.19	0.22
Crit Moves:	****					****		****		****		
Green/Cycle:	0.11	0.35	0.35	0.08	0.31	0.31	0.16	0.28	0.28	0.12	0.24	0.24
Volume/Cap:	0.98	0.95	0.95	0.95	0.90	0.96	0.90	0.98	0.98	0.98	0.77	0.90
Delay/Veh:	81.3	42.3	42.3	86.0	38.1	66.8	56.6	49.7	49.7	79.6	36.4	57.9
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:	81.3	42.3	42.3	86.0	38.1	66.8	56.6	49.7	49.7	79.6	36.4	57.9
HCM2kAvg:	10	21	21	7	17	20	11	19	19	11	11	14

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #109 PCH/Studebaker Rd

Cycle (sec): 80 Critical Vol./Cap. (X): 0.875
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 25.7
Optimal Cycle:OPTIMIZED Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	1 1	0 0	1	0 0	1! 0	0
Volume Module:												
Base Vol:	76	2216	17	8	1352	65	58	11	293	6	2	1
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	78	2274	17	8	1387	67	60	11	301	6	2	1
Added Vol:	0	0	4	67	0	0	0	0	0	2	0	43
PasserByVol:	0	10	0	0	8	0	0	0	0	0	0	0
Initial Fut:	78	2284	21	75	1395	67	60	11	301	8	2	44
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:	78	2284	21	75	1395	67	60	11	301	8	2	44
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	78	2284	21	75	1395	67	60	11	301	8	2	44
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 Vol.:	78	2284	21	75	1395	67	60	11	301	8	2	44
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.85	0.95	0.95	0.85	0.96	0.96	0.85	0.88	0.88	0.88
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	1.68	0.32	1.00	0.15	0.04	0.81
Final Sat.:	1805	5187	1615	1805	3610	1615	3066	582	1615	253	64	1363
Capacity Analysis Module:												
Vol/Sat:	0.04	0.44	0.01	0.04	0.39	0.04	0.02	0.02	0.19	0.03	0.03	0.03
Crit Moves:		****		****					****		****	
Green/Cycle:	0.06	0.50	0.50	0.05	0.50	0.50	0.21	0.21	0.21	0.04	0.04	0.04
Volume/Cap:	0.78	0.88	0.03	0.88	0.78	0.08	0.09	0.09	0.88	0.88	0.88	0.88
Delay/Veh:	69.0	21.3	10.0	95.8	18.9	10.7	25.3	25.3	51.8	110.1	110	110.1
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:	69.0	21.3	10.0	95.8	18.9	10.7	25.3	25.3	51.8	110.1	110	110.1
HCM2kAvg:	4	20	0	4	16	1	1	1	10	3	3	3

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #100 PCH/Studebaker Rd

Cycle (sec): 140 Critical Vol./Cap. (X): 1.211
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 108.3
Optimal Cycle: OPTIMIZED Level Of Service: F

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	1 1	0 0	1	0 0	1! 0	0
Volume Module:												
Base Vol:	147	1470	18	19	1892	66	194	13	377	71	32	18
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	151	1508	18	19	1941	68	199	13	387	73	33	18
Added Vol:	0	0	11	205	0	0	0	0	0	12	0	222
PasserByVol:	0	62	0	0	7	0	0	0	0	0	0	0
Initial Fut:	151	1570	29	224	1948	68	199	13	387	85	33	240
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:	151	1570	29	224	1948	68	199	13	387	85	33	240
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	151	1570	29	224	1948	68	199	13	387	85	33	240
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 Vol.:	151	1570	29	224	1948	68	199	13	387	85	33	240
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.85	0.95	0.95	0.85	0.96	0.96	0.85	0.90	0.90	0.90
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	1.67	0.13	1.00	0.24	0.09	0.67
Final Sat.:	1805	5187	1615	1805	3610	1615	3401	228	1615	404	156	1146
Capacity Analysis Module:												
Vol/Sat:	0.08	0.30	0.02	0.12	0.54	0.04	0.06	0.06	0.24	0.21	0.21	0.21
Crit Moves:	****				****				****		****	
Green/Cycle:	0.07	0.36	0.36	0.15	0.45	0.45	0.20	0.20	0.20	0.17	0.17	0.17
Volume/Cap:	1.21	0.83	0.05	0.83	1.21	0.09	0.30	0.30	1.21	1.21	1.21	1.21
Delay/Veh:	213.3	43.8	28.8	76.7	140	22.5	48.1	48.1	176.6	180.0	180	180.0
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:	213.3	43.8	28.8	76.7	140	22.5	48.1	48.1	176.6	180.0	180	180.0
HCM2kAvg:	13	22	1	12	64	2	4	4	27	26	26	26

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

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Intersection #1 Studebaker Rd/SR-22 WB Ramps

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Cycle (sec): 40 Critical Vol./Cap. (X): 0.723
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 13.9
Optimal Cycle:OPTIMIZED Level Of Service: B

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0 2	0	1	1 0 2	0	0	0 0 0	0	0	2 0 0	0	1
Volume Module:												
Base Vol:	0	465	37	56	706	0	0	0	0	886	0	1
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	477	38	57	724	0	0	0	0	909	0	1
Added Vol:	0	60	0	0	65	0	0	0	0	97	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	537	38	57	789	0	0	0	0	1006	0	1
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	537	0	57	789	0	0	0	0	1006	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	537	0	57	789	0	0	0	0	1006	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	537	0	57	789	0	0	0	0	1006	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.92	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3610	1900	1805	3610	0	0	0	0	3502	0	1900
Capacity Analysis Module:												
Vol/Sat:	0.00	0.15	0.00	0.03	0.22	0.00	0.00	0.00	0.00	0.29	0.00	0.00
Crit Moves:	****				****					****		
Green/Cycle:	0.00	0.25	0.00	0.05	0.30	0.00	0.00	0.00	0.00	0.40	0.00	0.00
Volume/Cap:	0.00	0.60	0.00	0.60	0.72	0.00	0.00	0.00	0.00	0.72	0.00	0.00
Delay/Veh:	0.0	14.4	0.0	28.4	14.9	0.0	0.0	0.0	0.0	12.1	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:	0.0	14.4	0.0	28.4	14.9	0.0	0.0	0.0	0.0	12.1	0.0	0.0
HCM2kAvg:	0	4	0	2	6	0	0	0	0	7	0	0

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #2 Studebaker Rd/SR-22 EB Ramps

Cycle (sec): 60 Critical Vol./Cap. (X): 0.561
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 4.8
Optimal Cycle:OPTIMIZED Level Of Service: A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0 2	0	1	1 0 2	0	0	0 0 0	0	0	2 0 0	0	1
Volume Module:												
Base Vol:	0	466	1044	148	1421	0	0	0	0	13	0	42
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	478	1071	152	1458	0	0	0	0	13	0	43
Added Vol:	0	60	86	0	162	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	538	1157	152	1620	0	0	0	0	13	0	43
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	538	0	152	1620	0	0	0	0	13	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	538	0	152	1620	0	0	0	0	13	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	538	0	152	1620	0	0	0	0	13	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.92	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3610	1900	1805	3610	0	0	0	0	3502	0	1900
Capacity Analysis Module:												
Vol/Sat:	0.00	0.15	0.00	0.08	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crit Moves:	****				****						****	
Green/Cycle:	0.00	0.51	0.00	0.29	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Volume/Cap:	0.00	0.29	0.00	0.29	0.56	0.00	0.00	0.00	0.00	xxxx	0.00	0.00
Delay/Veh:	0.0	8.5	0.0	16.9	2.4	0.0	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:	0.0	8.5	0.0	16.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HCM2kAvg:	0	3	0	2	6	0	0	0	0	2	0	0

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #6 PCH/7th St

Cycle (sec): 70 Critical Vol./Cap. (X): 0.862
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 28.3
Optimal Cycle:OPTIMIZED Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	2 0	3 0	0	0 0	2 1	0	0 0	2 0	1
Volume Module:												
Base Vol:	171	763	23	482	926	0	0	1490	191	0	1179	431
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	175	783	24	495	950	0	0	1529	196	0	1210	442
Added Vol:	42	58	0	0	66	0	0	0	47	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	217	841	24	495	1016	0	0	1529	243	0	1210	442
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:	217	841	24	495	1016	0	0	1529	243	0	1210	442
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	217	841	24	495	1016	0	0	1529	243	0	1210	442
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 Vol.:	217	841	24	495	1016	0	0	1529	243	0	1210	442
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.91	0.92	0.91	1.00	1.00	0.89	0.89	1.00	0.95	0.85
Lanes:	1.00	2.92	0.08	2.00	3.00	0.00	0.00	2.59	0.41	0.00	2.00	1.00
Final Sat.:	1805	5025	141	3502	5187	0	0	4382	696	0	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.12	0.17	0.17	0.14	0.20	0.00	0.00	0.35	0.35	0.00	0.34	0.27
Crit Moves:	****				****			****		****		
Green/Cycle:	0.14	0.20	0.20	0.17	0.23	0.00	0.00	0.40	0.40	0.00	0.40	0.40
Volume/Cap:	0.86	0.84	0.84	0.84	0.86	0.00	0.00	0.86	0.86	0.00	0.83	0.68
Delay/Veh:	54.3	33.3	33.3	38.7	32.7	0.0	0.0	23.1	23.1	0.0	22.8	19.9
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:	54.3	33.3	33.3	38.7	32.7	0.0	0.0	23.1	23.1	0.0	22.8	19.9
HCM2kAvg:	8	9	9	8	10	0	0	15	15	0	14	9

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

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Intersection #7 PCH/Bellflower Blvd

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Cycle (sec): 50 Critical Vol./Cap. (X): 0.769
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 19.5
Optimal Cycle:OPTIMIZED Level Of Service: B

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 1	0	1 0	2 0	1	1 1	2 0	1
Volume Module:												
Base Vol:	76	898	374	46	1028	37	55	210	46	512	274	21
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	78	921	384	47	1055	38	56	215	47	525	281	22
Added Vol:	0	101	45	0	113	0	0	0	0	49	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	78	1022	429	47	1168	38	56	215	47	574	281	22
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:	78	1022	429	47	1168	38	56	215	47	574	281	22
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	78	1022	429	47	1168	38	56	215	47	574	281	22
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 Vol.:	78	1022	429	47	1168	38	56	215	47	574	281	22
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.85	0.95	0.91	0.91	0.95	0.95	0.85	0.88	0.88	0.85
Lanes:	1.00	3.00	1.00	1.00	2.91	0.09	1.00	2.00	1.00	2.00	2.00	1.00
Final Sat.:	1805	5187	1615	1805	4999	162	1805	3610	1615	3347	3347	1615
Capacity Analysis Module:												
Vol/Sat:	0.04	0.20	0.27	0.03	0.23	0.23	0.03	0.06	0.03	0.17	0.08	0.01
Crit Moves:			****	****				****		****		
Green/Cycle:	0.06	0.35	0.35	0.03	0.32	0.32	0.08	0.08	0.08	0.22	0.22	0.22
Volume/Cap:	0.73	0.57	0.77	0.77	0.73	0.73	0.40	0.77	0.38	0.77	0.38	0.06
Delay/Veh:	45.5	13.8	21.0	67.7	16.8	16.8	23.8	34.8	23.8	21.5	16.6	15.4
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:	45.5	13.8	21.0	67.7	16.8	16.8	23.8	34.8	23.8	21.5	16.6	15.4
HCM2kAvg:	3	6	8	2	7	7	1	4	1	7	2	0

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #8 PCH/Loynes Dr

Cycle (sec): 65 Critical Vol./Cap. (X): 0.830
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 23.3
Optimal Cycle:OPTIMIZED Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	1 0	3 0	1	1 0	1 1	0	1 0	2 0	1
Volume Module:												
Base Vol:	142	823	140	27	1514	12	34	124	127	227	140	24
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	146	844	144	28	1553	12	35	127	130	233	144	25
Added Vol:	6	146	9	0	162	0	0	0	7	10	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	152	990	153	28	1715	12	35	127	137	243	144	25
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:	152	990	153	28	1715	12	35	127	137	243	144	25
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	152	990	153	28	1715	12	35	127	137	243	144	25
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 Vol.:	152	990	153	28	1715	12	35	127	137	243	144	25
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.89	0.89	0.95	0.91	0.85	0.95	0.88	0.88	0.95	0.95	0.85
Lanes:	1.00	2.60	0.40	1.00	3.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00
Final Sat.:	1805	4404	679	1805	5187	1615	1805	1664	1664	1805	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.08	0.22	0.22	0.02	0.33	0.01	0.02	0.08	0.08	0.13	0.04	0.02
Crit Moves:	****				****			****		****		
Green/Cycle:	0.10	0.47	0.47	0.03	0.40	0.40	0.08	0.09	0.09	0.16	0.17	0.17
Volume/Cap:	0.83	0.46	0.48	0.48	0.83	0.02	0.23	0.83	0.90	0.83	0.23	0.09
Delay/Veh:	54.8	12.0	12.0	37.1	20.6	11.9	28.7	45.5	56.7	44.1	23.4	22.8
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:	54.8	12.0	12.0	37.1	20.6	11.9	28.7	45.5	56.7	44.1	23.4	22.8
HCM2kAvg:	6	6	6	1	13	0	1	5	6	8	1	0

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

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Intersection #9 PCH/2nd St

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Cycle (sec): 80 Critical Vol./Cap. (X): 0.926
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 39.6
Optimal Cycle:OPTIMIZED Level Of Service: D

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	2 0 2	1	0	2 0 3	0	1	2 0 2	1	1	2 0 3	0	1
Volume Module:												
Base Vol:	353	986	173	241	980	227	512	1135	314	369	959	191
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	362	1012	177	247	1005	233	525	1165	322	379	984	196
Added Vol:	53	161	120	0	178	0	0	0	58	130	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	415	1173	297	247	1183	233	525	1165	380	509	984	196
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:	415	1173	297	247	1183	233	525	1165	380	509	984	196
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	415	1173	297	247	1183	233	525	1165	380	509	984	196
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 Vol.:	415	1173	297	247	1183	233	525	1165	380	509	984	196
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.88	0.88	0.92	0.91	0.85	0.92	0.88	0.88	0.92	0.91	0.85
Lanes:	2.00	2.39	0.61	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3502	4013	1018	3502	5187	1615	3502	4995	1665	3502	5187	1615
Capacity Analysis Module:												
Vol/Sat:	0.12	0.29	0.29	0.07	0.23	0.14	0.15	0.23	0.23	0.15	0.19	0.12
Crit Moves:		****		****				****		****		
Green/Cycle:	0.13	0.32	0.32	0.08	0.26	0.26	0.18	0.25	0.25	0.16	0.23	0.23
Volume/Cap:	0.89	0.93	0.93	0.93	0.89	0.56	0.83	0.93	0.91	0.93	0.83	0.53
Delay/Veh:	52.0	36.2	36.2	72.7	36.0	27.5	40.8	38.6	36.5	55.2	34.6	28.6
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:	52.0	36.2	36.2	72.7	36.0	27.5	40.8	38.6	36.5	55.2	34.6	28.6
HCM2kAvg:	9	16	16	6	13	6	9	14	13	10	10	5

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #100 PCH/Studebaker Rd

Cycle (sec): 130 Critical Vol./Cap. (X): 1.080
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 75.5
Optimal Cycle:OPTIMIZED Level Of Service: E

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	1 1	0 0	1	0 0	1! 0	0
Volume Module:												
Base Vol:	130	1520	29	29	1734	165	185	21	188	60	40	14
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	133	1560	30	30	1779	169	190	22	193	62	41	14
Added Vol:	0	49	16	309	58	0	0	0	0	15	0	285
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	133	1609	46	339	1837	169	190	22	193	77	41	299
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:	133	1609	46	339	1837	169	190	22	193	77	41	299
Reduce Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	133	1609	46	339	1837	169	190	22	193	77	41	299
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 Vol.:	133	1609	46	339	1837	169	190	22	193	77	41	299
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.85	0.95	0.95	0.85	0.96	0.96	0.85	0.89	0.89	0.89
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	1.80	0.20	1.00	0.18	0.10	0.72
Final Sat.:	1805	5187	1615	1805	3610	1615	3266	371	1615	312	167	1221
Capacity Analysis Module:												
Vol/Sat:	0.07	0.31	0.03	0.19	0.51	0.10	0.06	0.06	0.12	0.25	0.25	0.25
Crit Moves:	****				****				****		****	
Green/Cycle:	0.07	0.34	0.34	0.20	0.47	0.47	0.11	0.11	0.11	0.23	0.23	0.23
Volume/Cap:	1.08	0.92	0.08	0.92	1.08	0.22	0.53	0.53	1.08	1.08	1.08	1.08
Delay/Veh:	164.8	50.2	29.6	79.1	81.5	20.5	55.9	55.9	148.2	119.3	119	119.3
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:	164.8	50.2	29.6	79.1	81.5	20.5	55.9	55.9	148.2	119.3	119	119.3
HCM2kAvg:	10	24	1	18	49	4	5	5	13	25	25	25

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

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Intersection #1 Studebaker Rd/SR-22 WB Ramps

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Cycle (sec): 35 Critical Vol./Cap. (X): 0.670
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 12.2
Optimal Cycle:OPTIMIZED Level Of Service: B

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0 2	0	1	1 0 2	0	0	0 0 0	0	0	2 0 0	0	1
Volume Module:												
Base Vol:	0	725	41	79	852	0	0	0	0	644	0	559
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:	0	725	41	79	852	0	0	0	0	644	0	559
Added Vol:	0	22	9	0	26	0	0	0	0	20	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	747	50	79	878	0	0	0	0	664	0	559
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	747	0	79	878	0	0	0	0	664	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	747	0	79	878	0	0	0	0	664	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	747	0	79	878	0	0	0	0	664	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.92	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3610	1900	1805	3610	0	0	0	0	3502	0	1900
Capacity Analysis Module:												
Vol/Sat:	0.00	0.21	0.00	0.04	0.24	0.00	0.00	0.00	0.00	0.19	0.00	0.00
Crit Moves:		****		****						****		
Green/Cycle:	0.00	0.31	0.00	0.07	0.37	0.00	0.00	0.00	0.00	0.28	0.00	0.00
Volume/Cap:	0.00	0.67	0.00	0.67	0.65	0.00	0.00	0.00	0.00	0.67	0.00	0.00
Delay/Veh:	0.0	12.1	0.0	29.9	10.2	0.0	0.0	0.0	0.0	12.9	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:	0.0	12.1	0.0	29.9	10.2	0.0	0.0	0.0	0.0	12.9	0.0	0.0
HCM2kAvg:	0	5	0	2	5	0	0	0	0	5	0	0

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #1 Studebaker Rd/SR-22 WB Ramps

Cycle (sec): 65 Critical Vol./Cap. (X): 0.881
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 23.2
Optimal Cycle:OPTIMIZED Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	941	56	73	1375	0	0	0	0	1110	0	320
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:	0	941	56	73	1375	0	0	0	0	1110	0	320
Added Vol:	0	43	19	0	41	0	0	0	0	31	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	984	75	73	1416	0	0	0	0	1141	0	320
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	984	0	73	1416	0	0	0	0	1141	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	984	0	73	1416	0	0	0	0	1141	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	984	0	73	1416	0	0	0	0	1141	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.92	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3610	1900	1805	3610	0	0	0	0	3502	0	1900
Capacity Analysis Module:												
Vol/Sat:	0.00	0.27	0.00	0.04	0.39	0.00	0.00	0.00	0.00	0.33	0.00	0.00
Crit Moves:	****				****					****		
Green/Cycle:	0.00	0.39	0.00	0.06	0.45	0.00	0.00	0.00	0.00	0.37	0.00	0.00
Volume/Cap:	0.00	0.70	0.00	0.70	0.88	0.00	0.00	0.00	0.00	0.88	0.00	0.00
Delay/Veh:	0.0	18.4	0.0	49.5	22.5	0.0	0.0	0.0	0.0	26.4	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:	0.0	18.4	0.0	49.5	22.5	0.0	0.0	0.0	0.0	26.4	0.0	0.0
HCM2kAvg:	0	10	0	3	17	0	0	0	0	15	0	0

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

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Intersection #2 Studebaker Rd/SR-22 EB Ramps

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Cycle (sec): 45 Critical Vol./Cap. (X): 0.507
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 6.1
Optimal Cycle:OPTIMIZED Level Of Service: A

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0 2	0	1	1 0 2	0	0	0 0 0	0	0	2 0 0	0	1
Volume Module:												
Base Vol:	0	710	1351	194	1263	0	0	0	0	20	0	107
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:	0	710	1351	194	1263	0	0	0	0	20	0	107
Added Vol:	0	31	16	0	46	0	0	0	0	11	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	741	1367	194	1309	0	0	0	0	31	0	107
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	741	0	194	1309	0	0	0	0	31	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	741	0	194	1309	0	0	0	0	31	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	741	0	194	1309	0	0	0	0	31	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.92	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3610	1900	1805	3610	0	0	0	0	3502	0	1900
Capacity Analysis Module:												
Vol/Sat:	0.00	0.21	0.00	0.11	0.36	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Crit Moves:	****				****					****		
Green/Cycle:	0.00	0.47	0.00	0.25	0.72	0.00	0.00	0.00	0.00	0.02	0.00	0.00
Volume/Cap:	0.00	0.44	0.00	0.44	0.51	0.00	0.00	0.00	0.00	0.51	0.00	0.00
Delay/Veh:	0.0	8.1	0.0	15.0	3.0	0.0	0.0	0.0	0.0	28.7	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:	0.0	8.1	0.0	15.0	3.0	0.0	0.0	0.0	0.0	28.7	0.0	0.0
HCM2kAvg:	0	4	0	3	5	0	0	0	0	1	0	0

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #2 Studebaker Rd/SR-22 SB Ramps

Cycle (sec): 65 Critical Vol./Cap. (X): 0.756
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 9.6
Optimal Cycle:OPTIMIZED Level Of Service: A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	871	1074	376	2099	0	0	0	0	36	0	112
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:	0	871	1074	376	2099	0	0	0	0	36	0	112
Added Vol:	0	62	32	0	72	0	0	0	0	18	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	933	1106	376	2171	0	0	0	0	54	0	112
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	933	0	376	2171	0	0	0	0	54	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	933	0	376	2171	0	0	0	0	54	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	933	0	376	2171	0	0	0	0	54	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.92	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3610	1900	1805	3610	0	0	0	0	3502	0	1900
Capacity Analysis Module:												
Vol/Sat:	0.00	0.26	0.00	0.21	0.60	0.00	0.00	0.00	0.00	0.02	0.00	0.00
Crit Moves:	****				****					****		
Green/Cycle:	0.00	0.44	0.00	0.35	0.79	0.00	0.00	0.00	0.00	0.02	0.00	0.00
Volume/Cap:	0.00	0.59	0.00	0.59	0.76	0.00	0.00	0.00	0.00	0.76	0.00	0.00
Delay/Veh:	0.0	14.3	0.0	18.5	4.6	0.0	0.0	0.0	0.0	68.1	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:	0.0	14.3	0.0	18.5	4.6	0.0	0.0	0.0	0.0	68.1	0.0	0.0
HCM2kAvg:	0	8	0	7	13	0	0	0	0	2	0	0

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #6 PCH/7th St

Cycle (sec): 115 Critical Vol./Cap. (X): 1.022
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 49.1
Optimal Cycle:OPTIMIZED Level Of Service: D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	2 0	3 0	0	0 0	2 1	0	0 0	2 0	1
Volume Module:												
Base Vol:	125	1277	2	415	688	0	0	2022	152	0	1845	585
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:	125	1277	2	415	688	0	0	2022	152	0	1845	585
Added Vol:	8	8	0	3	10	0	0	3	10	0	3	3
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	133	1285	2	418	698	0	0	2025	162	0	1848	588
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:	133	1285	2	418	698	0	0	2025	162	0	1848	588
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	133	1285	2	418	698	0	0	2025	162	0	1848	588
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 Vol.:	133	1285	2	418	698	0	0	2025	162	0	1848	588
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.91	0.92	0.91	1.00	1.00	0.90	0.90	1.00	0.95	0.85
Lanes:	1.00	2.99	0.01	2.00	3.00	0.00	0.00	2.78	0.22	0.00	2.00	1.00
Final Sat.:	1805	5179	8	3502	5187	0	0	4750	380	0	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.07	0.25	0.25	0.12	0.13	0.00	0.00	0.43	0.43	0.00	0.51	0.36
Crit Moves:		****		****			****				****	
Green/Cycle:	0.13	0.24	0.24	0.12	0.23	0.00	0.00	0.50	0.50	0.00	0.50	0.50
Volume/Cap:	0.58	1.02	1.02	1.02	0.58	0.00	0.00	0.85	0.85	0.00	1.02	0.73
Delay/Veh:	50.9	74.5	74.5	100.9	39.8	0.0	0.0	27.9	27.9	0.0	55.5	25.8
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:	50.9	74.5	74.5	100.9	39.8	0.0	0.0	27.9	27.9	0.0	55.5	25.8
HCM2kAvg:	5	22	22	13	8	0	0	25	25	0	42	17

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

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Intersection #6 PCH/7th St

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Cycle (sec): 135 Critical Vol./Cap. (X): 1.079
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 69.4
Optimal Cycle:OPTIMIZED Level Of Service: E

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	2 0	3 0	0	0 0	2 1	0	0 0	2 0	1
Volume Module:												
Base Vol:	193	893	0	652	1191	0	0	2097	212	0	2119	438
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:	193	893	0	652	1191	0	0	2097	212	0	2119	438
Added Vol:	16	16	0	5	15	0	0	5	15	0	5	5
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	209	909	0	657	1206	0	0	2102	227	0	2124	443
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:	209	909	0	657	1206	0	0	2102	227	0	2124	443
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	209	909	0	657	1206	0	0	2102	227	0	2124	443
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 Vol.:	209	909	0	657	1206	0	0	2102	227	0	2124	443
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.91	0.92	0.91	1.00	1.00	0.90	0.90	1.00	0.95	0.85
Lanes:	1.00	3.00	0.00	2.00	3.00	0.00	0.00	2.71	0.29	0.00	2.00	1.00
Final Sat.:	1805	5187	0	3502	5187	0	0	4611	498	0	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.12	0.18	0.00	0.19	0.23	0.00	0.00	0.46	0.46	0.00	0.59	0.27
Crit Moves:		****		****			****				****	
Green/Cycle:	0.11	0.16	0.00	0.17	0.22	0.00	0.00	0.55	0.55	0.00	0.55	0.55
Volume/Cap:	1.04	1.08	0.00	1.08	1.04	0.00	0.00	0.84	0.84	0.00	1.08	0.50
Delay/Veh:	133.0	111	0.0	115.4	88.4	0.0	0.0	28.0	28.0	0.0	76.1	19.7
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:	133.0	111	0.0	115.4	88.4	0.0	0.0	28.0	28.0	0.0	76.1	19.7
ICM2kAvg:	14	19	0	21	23	0	0	29	29	0	57	11

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

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Intersection #7 PCH/Bellflower Blvd

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Cycle (sec): 45 Critical Vol./Cap. (X): 0.737
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 16.4
Optimal Cycle:OPTIMIZED Level Of Service: B

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 1	0	1 0	2 0	1	1 1	2 0	1
Volume Module:												
Base Vol:	44	1315	423	20	815	20	119	461	19	209	127	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:	44	1315	423	20	815	20	119	461	19	209	127	0
Added Vol:	0	16	12	0	20	0	0	0	0	15	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	44	1331	435	20	835	20	119	461	19	224	127	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:	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:	44	1331	435	20	835	20	119	461	19	224	127	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	44	1331	435	20	835	20	119	461	19	224	127	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 Vol.:	44	1331	435	20	835	20	119	461	19	224	127	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.85	0.95	0.91	0.91	0.95	0.95	0.85	0.88	0.88	1.00
Lanes:	1.00	3.00	1.00	1.00	2.93	0.07	1.00	2.00	1.00	2.00	2.00	1.00
Final Sat.:	1805	5187	1615	1805	5050	121	1805	3610	1615	3351	3351	1900
Capacity Analysis Module:												
Vol/Sat:	0.02	0.26	0.27	0.01	0.17	0.17	0.07	0.13	0.01	0.07	0.04	0.00
Crit Moves:			****	****				****		****		
Green/Cycle:	0.05	0.37	0.37	0.02	0.33	0.33	0.17	0.17	0.17	0.09	0.09	0.00
Volume/Cap:	0.50	0.70	0.74	0.74	0.50	0.50	0.38	0.74	0.07	0.74	0.42	0.00
Delay/Veh:	25.2	13.4	17.3	91.4	12.3	12.3	17.2	22.2	15.7	25.9	19.7	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:	25.2	13.4	17.3	91.4	12.3	12.3	17.2	22.2	15.7	25.9	19.7	0.0
HCM2kAvg:	1	7	7	1	4	4	2	5	0	3	1	0

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #7 PCH/Bellflower Blvd

Cycle (sec): 55 Critical Vol./Cap. (X): 0.788
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 22.2
Optimal Cycle:OPTIMIZED Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 1	0	1 0	2 0	1	1 1	2 0	1
Volume Module:												
Base Vol:	134	969	382	98	1177	75	45	314	11	474	351	6
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:	134	969	382	98	1177	75	45	314	11	474	351	6
Added Vol:	0	32	24	0	31	0	0	0	0	23	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	134	1001	406	98	1208	75	45	314	11	497	351	6
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:	134	1001	406	98	1208	75	45	314	11	497	351	6
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	134	1001	406	98	1208	75	45	314	11	497	351	6
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 Vol.:	134	1001	406	98	1208	75	45	314	11	497	351	6
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.85	0.95	0.90	0.90	0.95	0.95	0.85	0.88	0.88	0.85
Lanes:	1.00	3.00	1.00	1.00	2.82	0.18	1.00	2.00	1.00	2.00	2.00	1.00
Final Sat.:	1805	5187	1615	1805	4840	300	1805	3610	1615	3361	3361	1615
Capacity Analysis Module:												
Vol/Sat:	0.07	0.19	0.25	0.05	0.25	0.25	0.02	0.09	0.01	0.15	0.10	0.00
Crit Moves:	****				****			****		****		
Green/Cycle:	0.09	0.34	0.34	0.07	0.32	0.32	0.11	0.11	0.11	0.19	0.19	0.19
Volume/Cap:	0.79	0.57	0.74	0.74	0.79	0.79	0.23	0.79	0.06	0.79	0.56	0.02
Delay/Veh:	45.7	15.4	21.6	45.3	19.8	19.8	22.9	33.9	22.1	25.3	20.7	18.2
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:	45.7	15.4	21.6	45.3	19.8	19.8	22.9	33.9	22.1	25.3	20.7	18.2
HCM2kAvg:	5	5	8	4	9	9	1	5	0	7	4	0

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #8 PCH/Loynes Dr

Cycle (sec): 80 Critical Vol./Cap. (X): 0.711
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 13.4
Optimal Cycle:OPTIMIZED Level Of Service: B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0 2 1 0			1 0 3 0 1			1 0 1 1 0			1 0 2 0 1		
Volume Module:												
Base Vol:	48	1770	84	34	827	19	28	177	112	93	130	70
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:	48	1770	84	34	827	19	28	177	112	93	130	70
Added Vol:	0	0	0	34	0	0	0	3	0	0	2	28
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	48	1770	84	68	827	19	28	180	112	93	132	98
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:	48	1770	84	68	827	19	28	180	112	93	132	98
Reduce Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	48	1770	84	68	827	19	28	180	112	93	132	98
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 Vol.:	48	1770	84	68	827	19	28	180	112	93	132	98
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.90	0.90	0.95	0.91	0.85	0.66	0.89	0.89	0.66	0.95	0.85
Lanes:	1.00	2.86	0.14	1.00	3.00	1.00	1.00	1.23	0.77	1.00	2.00	1.00
Final Sat.:	1805	4917	233	1805	5187	1615	1260	2096	1304	1258	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.03	0.36	0.36	0.04	0.16	0.01	0.02	0.09	0.09	0.07	0.04	0.06
Crit Moves:		****		****				****				
Green/Cycle:	0.08	0.51	0.51	0.05	0.48	0.48	0.12	0.12	0.12	0.12	0.12	0.12
Volume/Cap:	0.33	0.71	0.71	0.71	0.33	0.02	0.18	0.71	0.71	0.61	0.30	0.50
Delay/Veh:	23.1	10.5	10.5	45.3	8.1	6.9	20.4	26.9	26.9	28.1	20.5	22.6
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:	23.1	10.5	10.5	45.3	8.1	6.9	20.4	26.9	26.9	28.1	20.5	22.6
HCM2kAvg:	1	9	9	3	3	0	1	4	4	3	1	2

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #8 PCH/Loynes Dr

Cycle (sec): 55 Critical Vol./Cap. (X): 0.832
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 19.5
Optimal Cycle:OPTIMIZED Level Of Service: B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0 2	1 0		1 0 3	0 1		1 0 1	1 0		1 0 2	0 1	
Volume Module:												
Base Vol:	163	1277	122	47	1690	32	31	203	103	185	322	51
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:	163	1277	122	47	1690	32	31	203	103	185	322	51
Added Vol:	0	0	0	54	0	0	0	4	0	0	4	57
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	163	1277	122	101	1690	32	31	207	103	185	326	108
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:	163	1277	122	101	1690	32	31	207	103	185	326	108
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	163	1277	122	101	1690	32	31	207	103	185	326	108
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 Vol.:	163	1277	122	101	1690	32	31	207	103	185	326	108
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.90	0.90	0.95	0.91	0.85	0.55	0.90	0.90	0.56	0.95	0.85
Lanes:	1.00	2.74	0.26	1.00	3.00	1.00	1.00	1.34	0.66	1.00	2.00	1.00
Final Sat.:	1805	4673	446	1805	5187	1615	1047	2290	1139	1062	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.09	0.27	0.27	0.06	0.33	0.02	0.03	0.09	0.09	0.17	0.09	0.07
Crit Moves:	****				****					****		
Green/Cycle:	0.11	0.41	0.41	0.08	0.39	0.39	0.21	0.21	0.21	0.21	0.21	0.21
Volume/Cap:	0.83	0.66	0.66	0.66	0.83	0.05	0.14	0.43	0.43	0.83	0.43	0.32
Delay/Veh:	49.1	13.7	13.7	34.5	18.2	10.4	18.0	19.3	19.3	43.5	19.3	19.0
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:	49.1	13.7	13.7	34.5	18.2	10.4	18.0	19.3	19.3	43.5	19.3	19.0
HCM2kAvg:	6	8	8	3	12	0	1	3	3	8	3	2

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #9 PCH/2nd St

Cycle (sec): 65 Critical Vol./Cap. (X): 0.897
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 29.4
Optimal Cycle:OPTIMIZED Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	2 0	2 1	0	1 0	2 1	0	2 0	2 1	1	2 0	3 0	1
Volume Module:												
Base Vol:	497	1150	406	114	668	179	183	1117	299	251	549	168
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:	497	1150	406	114	668	179	183	1117	299	251	549	168
Added Vol:	0	0	7	0	0	0	0	20	0	5	16	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Put:	497	1150	413	114	668	179	183	1137	299	256	565	168
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:	497	1150	413	114	668	179	183	1137	299	256	565	168
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	497	1150	413	114	668	179	183	1137	299	256	565	168
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 Vol.:	497	1150	413	114	668	179	183	1137	299	256	565	168
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.87	0.87	0.95	0.88	0.88	0.92	0.88	0.88	0.92	0.91	0.85
Lanes:	2.00	2.21	0.79	1.00	2.37	0.63	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3502	3664	1316	1805	3960	1061	3502	5026	1675	3502	5187	1615
Capacity Analysis Module:												
Vol/Sat:	0.14	0.31	0.31	0.06	0.17	0.17	0.05	0.23	0.18	0.07	0.11	0.10
Crit Moves:		****		****				****		****		
Green/Cycle:	0.19	0.35	0.35	0.07	0.23	0.23	0.11	0.25	0.25	0.08	0.23	0.23
Volume/Cap:	0.74	0.90	0.90	0.90	0.74	0.74	0.48	0.90	0.71	0.90	0.48	0.46
Delay/Veh:	29.1	26.6	26.6	79.8	25.9	25.9	28.2	30.6	23.3	58.1	22.2	22.7
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:	29.1	26.6	26.6	79.8	25.9	25.9	28.2	30.6	23.3	58.1	22.2	22.7
HCM2kAvg:	7	14	14	5	7	7	3	11	7	6	4	3

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #9 PCH/2nd St

Cycle (sec): 100 Critical Vol./Cap. (X): 0.980
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 51.1
Optimal Cycle:OPTIMIZED Level Of Service: D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	2 0	2 1	0	1 0	2 1	0	2 0	2 1	1	2 0	3 0	1
Volume Module:												
Base Vol:	338	1024	361	222	1328	482	496	1311	438	321	920	271
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:	338	1024	361	222	1328	482	496	1311	438	321	920	271
Added Vol:	0	0	10	0	0	0	0	31	0	11	32	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	338	1024	371	222	1328	482	496	1342	438	332	952	271
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:	338	1024	371	222	1328	482	496	1342	438	332	952	271
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	338	1024	371	222	1328	482	496	1342	438	332	952	271
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 Vol.:	338	1024	371	222	1328	482	496	1342	438	332	952	271
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.87	0.87	0.95	0.87	0.87	0.92	0.88	0.88	0.92	0.91	0.85
Lanes:	2.00	2.20	0.80	1.00	2.20	0.80	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3502	3655	1324	1805	3653	1326	3502	4995	1665	3502	5187	1615
Capacity Analysis Module:												
Vol/Sat:	0.10	0.28	0.28	0.12	0.36	0.36	0.14	0.27	0.26	0.09	0.18	0.17
Crit Moves:	****				****			****			****	
Green/Cycle:	0.10	0.33	0.33	0.14	0.37	0.37	0.16	0.27	0.27	0.10	0.21	0.21
Volume/Cap:	0.98	0.86	0.86	0.86	0.98	0.98	0.88	0.98	0.96	0.98	0.88	0.80
Delay/Veh:	88.0	36.4	36.4	65.8	47.6	47.6	55.4	52.7	48.5	88.5	46.6	50.4
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:	88.0	36.4	36.4	65.8	47.6	47.6	55.4	52.7	48.5	88.5	46.6	50.4
HCM2kAvg:	9	16	16	10	25	25	11	19	18	9	13	10

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

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Intersection #100 PCH/Studebaker Rd

****

Cycle (sec): 55 Critical Vol./Cap. (X): 0.792
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 15.2
Optimal Cycle:OPTIMIZED Level Of Service: B

****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	1 1	0 0	1	0 0	1! 0	0
Volume Module:												
Base Vol:	76	2216	17	8	1352	65	58	11	293	6	2	1
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:	76	2216	17	8	1352	65	58	11	293	6	2	1
Added Vol:	0	7	0	0	5	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	76	2223	17	8	1357	65	58	11	293	6	2	1
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:	76	2223	17	8	1357	65	58	11	293	6	2	1
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	76	2223	17	8	1357	65	58	11	293	6	2	1
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 Vol.:	76	2223	17	8	1357	65	58	11	293	6	2	1
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.85	0.95	0.95	0.85	0.96	0.96	0.85	0.95	0.95	0.95
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	1.68	0.32	1.00	0.67	0.22	0.11
Final Sat.:	1805	5187	1615	1805	3610	1615	3066	582	1615	1208	403	231
Capacity Analysis Module:												
Vol/Sat:	0.04	0.43	0.01	0.00	0.38	0.04	0.02	0.02	0.18	0.00	0.00	0.00
Crit Moves:		****		****					****		****	
Green/Cycle:	0.06	0.54	0.54	0.01	0.49	0.49	0.23	0.23	0.23	0.01	0.01	0.01
Volume/Cap:	0.76	0.79	0.02	0.79	0.76	0.08	0.08	0.08	0.79	0.79	0.79	0.79
Delay/Veh:	54.8	11.8	5.9	192.0	13.4	7.5	16.7	16.7	31.1	180.5	181	180.5
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:	54.8	11.8	5.9	192.0	13.4	7.5	16.7	16.7	31.1	180.5	181	180.5
HCM2kAvg:	3	12	0	1	11	1	1	1	7	1	1	1

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

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Intersection #100 PCH/Studebaker Rd

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Cycle (sec): 110 Critical Vol./Cap. (X): 1.020
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 46.6
Optimal Cycle:OPTIMIZED Level Of Service: D

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	1 1	0 0	1	0 0	1! 0	0
Volume Module:												
Base Vol:	147	1470	18	19	1892	66	194	13	377	71	32	18
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:	147	1470	18	19	1892	66	194	13	377	71	32	18
Added Vol:	0	10	0	0	11	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	147	1480	18	19	1903	66	194	13	377	71	32	18
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:	147	1480	18	19	1903	66	194	13	377	71	32	18
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	147	1480	18	19	1903	66	194	13	377	71	32	18
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 Vol.:	147	1480	18	19	1903	66	194	13	377	71	32	18
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.85	0.95	0.95	0.85	0.96	0.96	0.85	0.95	0.95	0.95
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	1.87	0.13	1.00	0.59	0.26	0.15
Final Sat.:	1805	5187	1615	1805	3610	1615	3401	228	1615	1061	478	269
Capacity Analysis Module:												
Vol/Sat:	0.08	0.29	0.01	0.01	0.53	0.04	0.06	0.06	0.23	0.07	0.07	0.07
Crit Moves:	****				****				****		****	
Green/Cycle:	0.08	0.58	0.58	0.02	0.52	0.52	0.23	0.23	0.23	0.07	0.07	0.07
Volume/Cap:	1.02	0.50	0.02	0.50	1.02	0.08	0.25	0.25	1.02	1.02	1.02	1.02
Delay/Veh:	131.0	14.0	10.0	63.0	52.7	13.4	34.8	34.8	94.5	139.5	140	139.5
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:	131.0	14.0	10.0	63.0	52.7	13.4	34.8	34.8	94.5	139.5	140	139.5
HCM2kAvg:	9	10	0	1	41	1	3	3	19	8	8	8

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

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Intersection #1 Studebaker Rd/SR-22 WB Ramps

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Cycle (sec): 40 Critical Vol./Cap. (X): 0.713
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 13.7
Optimal Cycle:OPTIMIZED Level Of Service: B

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	465	37	56	706	0	0	0	0	886	0	1
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:	0	465	37	56	706	0	0	0	0	886	0	1
Added Vol:	0	88	38	0	103	0	0	0	0	77	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	553	75	56	809	0	0	0	0	963	0	1
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	553	0	56	809	0	0	0	0	963	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	553	0	56	809	0	0	0	0	963	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	553	0	56	809	0	0	0	0	963	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.92	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3610	1900	1805	3610	0	0	0	0	3502	0	1900
Capacity Analysis Module:												
Vol/Sat:	0.00	0.15	0.00	0.03	0.22	0.00	0.00	0.00	0.00	0.28	0.00	0.00
Crit Moves:	****				****					****		
Green/Cycle:	0.00	0.26	0.00	0.05	0.31	0.00	0.00	0.00	0.00	0.39	0.00	0.00
Volume/Cap:	0.00	0.59	0.00	0.59	0.71	0.00	0.00	0.00	0.00	0.71	0.00	0.00
Delay/Veh:	0.0	13.8	0.0	27.6	14.3	0.0	0.0	0.0	0.0	12.2	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:	0.0	13.8	0.0	27.6	14.3	0.0	0.0	0.0	0.0	12.2	0.0	0.0
HCM2kAvg:	0	4	0	2	6	0	0	0	0	7	0	0

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #2 Studebaker Rd/SR-22 EB Ramps

Cycle (sec): 55 Critical Vol./Cap. (X): 0.588
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 6.2
Optimal Cycle:OPTIMIZED Level Of Service: A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	466	1044	148	1421	0	0	0	0	13	0	42
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:	0	466	1044	148	1421	0	0	0	0	13	0	42
Added Vol:	0	126	66	0	180	0	0	0	0	45	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	592	1110	148	1601	0	0	0	0	58	0	42
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	592	0	148	1601	0	0	0	0	58	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	592	0	148	1601	0	0	0	0	58	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	592	0	148	1601	0	0	0	0	58	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.92	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3610	1900	1805	3610	0	0	0	0	3502	0	1900
Capacity Analysis Module:												
Vol/Sat:	0.00	0.16	0.00	0.08	0.44	0.00	0.00	0.00	0.00	0.02	0.00	0.00
Crit Moves:	****				****					****		
Green/Cycle:	0.00	0.50	0.00	0.25	0.75	0.00	0.00	0.00	0.00	0.03	0.00	0.00
Volume/Cap:	0.00	0.33	0.00	0.33	0.59	0.00	0.00	0.00	0.00	0.59	0.00	0.00
Delay/Veh:	0.0	8.2	0.0	17.2	3.3	0.0	0.0	0.0	0.0	35.4	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:	0.0	8.2	0.0	17.2	3.3	0.0	0.0	0.0	0.0	35.4	0.0	0.0
HCM2kAvg:	0	3	0	2	7	0	0	0	0	1	0	0

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #6 PCH/7th St

Cycle (sec): 65 Critical Vol./Cap. (X): 0.850
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 26.7
Optimal Cycle:OPTIMIZED Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	2 0	3 0	0	0 0	2 1	0	0 0	2 0	1
Volume Module:												
Base Vol:	171	763	23	482	926	0	0	1490	191	0	1179	431
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:	171	763	23	482	926	0	0	1490	191	0	1179	431
Added Vol:	33	33	0	13	38	0	0	13	38	0	11	11
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	204	796	23	495	964	0	0	1503	229	0	1190	442
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:	204	796	23	495	964	0	0	1503	229	0	1190	442
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	204	796	23	495	964	0	0	1503	229	0	1190	442
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 Vol.:	204	796	23	495	964	0	0	1503	229	0	1190	442
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.91	0.92	0.91	1.00	1.00	0.89	0.89	1.00	0.95	0.85
Lanes:	1.00	2.92	0.08	2.00	3.00	0.00	0.00	2.60	0.40	0.00	2.00	1.00
Final Sat.:	1805	5021	145	3502	5187	0	0	4411	672	0	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.11	0.16	0.16	0.14	0.19	0.00	0.00	0.34	0.34	0.00	0.33	0.27
Crit Moves:		****		****				****		****		
Green/Cycle:	0.13	0.19	0.19	0.17	0.22	0.00	0.00	0.40	0.40	0.00	0.40	0.40
Volume/Cap:	0.85	0.85	0.85	0.85	0.85	0.00	0.00	0.85	0.85	0.00	0.82	0.68
Delay/Veh:	50.8	32.8	32.8	37.7	30.4	0.0	0.0	21.3	21.3	0.0	21.3	19.1
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:	50.8	32.8	32.8	37.7	30.4	0.0	0.0	21.3	21.3	0.0	21.3	19.1
HCM2kAvg:	7	8	8	8	9	0	0	14	14	0	13	9

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #7 PCH/Bellflower Blvd

Cycle (sec): 50 Critical Vol./Cap. (X): 0.759
Loss Time (sec): 16 (Y-R = 4 sec) Average Delay (sec/veh): 19.0
Optimal Cycle:OPTIMIZED Level Of Service: B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 1	0	1 0	2 0	1	1 1	2 0	1
Volume Module:												
Base Vol:	76	898	374	46	1028	37	55	210	46	512	274	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:	76	898	374	46	1028	37	55	210	46	512	274	21
Added Vol:	0	66	49	0	77	0	0	0	0	58	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	76	964	423	46	1105	37	55	210	46	570	274	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:	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:	76	964	423	46	1105	37	55	210	46	570	274	21
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	76	964	423	46	1105	37	55	210	46	570	274	21
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 Vol.:	76	964	423	46	1105	37	55	210	46	570	274	21
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.85	0.95	0.91	0.91	0.95	0.95	0.85	0.88	0.88	0.85
Lanes:	1.00	3.00	1.00	1.00	2.90	0.10	1.00	2.00	1.00	2.00	2.00	1.00
Final Sat.:	1805	5187	1615	1805	4994	167	1805	3610	1615	3344	3344	1615
Capacity Analysis Module:												
Vol/Sat:	0.04	0.19	0.26	0.03	0.22	0.22	0.03	0.06	0.03	0.17	0.08	0.01
Crit Moves:			****	****				****		****		
Green/Cycle:	0.06	0.35	0.35	0.03	0.32	0.32	0.08	0.08	0.08	0.22	0.22	0.22
Volume/Cap:	0.70	0.54	0.76	0.76	0.70	0.70	0.40	0.76	0.37	0.76	0.36	0.06
Delay/Veh:	40.8	13.5	20.5	65.9	16.2	16.2	23.9	34.1	23.8	21.2	16.5	15.3
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:	40.8	13.5	20.5	65.9	16.2	16.2	23.9	34.1	23.8	21.2	16.5	15.3
HCM2kAvg:	3	5	8	2	7	7	1	4	1	6	2	0

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #8 PCH/Loynes Dr

Cycle (sec): 55 Critical Vol./Cap. (X): 0.811
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 20.4
Optimal Cycle:OPTIMIZED Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	1 0	3 0	1	1 0	1 1	0	1 0	2 0	1
Volume Module:												
Base Vol:	142	823	140	27	1514	12	34	124	127	227	140	24
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:	142	823	140	27	1514	12	34	124	127	227	140	24
Added Vol:	0	0	0	135	0	0	0	10	0	0	9	115
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	142	823	140	162	1514	12	34	134	127	227	149	139
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:	142	823	140	162	1514	12	34	134	127	227	149	139
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	142	823	140	162	1514	12	34	134	127	227	149	139
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 Vol.:	142	823	140	162	1514	12	34	134	127	227	149	139
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.89	0.89	0.95	0.91	0.85	0.65	0.88	0.88	0.58	0.95	0.85
Lanes:	1.00	2.56	0.44	1.00	3.00	1.00	1.00	1.03	0.97	1.00	2.00	1.00
Final Sat.:	1805	4335	737	1805	5187	1615	1237	1718	1628	1110	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.08	0.19	0.19	0.09	0.29	0.01	0.03	0.08	0.08	0.20	0.04	0.09
Crit Moves:	****				****					****		
Green/Cycle:	0.10	0.31	0.31	0.15	0.36	0.36	0.25	0.25	0.25	0.25	0.25	0.25
Volume/Cap:	0.81	0.61	0.61	0.61	0.81	0.02	0.11	0.31	0.31	0.81	0.16	0.34
Delay/Veh:	48.4	16.9	16.9	26.2	18.7	11.4	16.0	16.9	16.9	35.5	16.1	17.3
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:	48.4	16.9	16.9	26.2	18.7	11.4	16.0	16.9	16.9	35.5	16.1	17.3
HCM2kAvg:	8	6	6	4	10	0	1	2	2	9	1	2

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #9 PCH/2nd St

Cycle (sec): 75 Critical Vol./Cap. (X): 0.905
Loss Time (sec): 16 (Y-R = 4 sec) Average Delay (sec/veh): 38.6
Optimal Cycle:OPTIMIZED Level Of Service: D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	2 0	2 1	0	1 0	2 1	0	2 0	2 1	1	2 0	3 0	1
Volume Module:												
Base Vol:	353	986	173	241	980	227	512	1135	314	369	959	191
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:	353	986	173	241	980	227	512	1135	314	369	959	191
Added Vol:	0	0	26	0	0	0	0	77	0	22	66	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	353	986	199	241	980	227	512	1212	314	391	1025	191
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:	353	986	199	241	980	227	512	1212	314	391	1025	191
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	353	986	199	241	980	227	512	1212	314	391	1025	191
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 Vol.:	353	986	199	241	980	227	512	1212	314	391	1025	191
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.89	0.89	0.95	0.88	0.88	0.92	0.88	0.88	0.92	0.91	0.85
Lanes:	2.00	2.60	0.50	1.00	2.44	0.56	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3502	4208	849	1805	4094	948	3502	5026	1675	3502	5187	1615
Capacity Analysis Module:												
Vol/Sat:	0.10	0.23	0.23	0.13	0.24	0.24	0.15	0.24	0.19	0.11	0.20	0.12
Crit Moves:		****		****			****				****	
Green/Cycle:	0.12	0.26	0.26	0.15	0.29	0.29	0.16	0.26	0.26	0.12	0.22	0.22
Volume/Cap:	0.84	0.90	0.90	0.90	0.84	0.84	0.90	0.93	0.72	0.93	0.90	0.54
Delay/Veh:	43.9	36.0	36.0	62.8	29.6	29.6	48.9	36.7	26.5	59.4	38.8	27.7
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:	45.9	36.0	36.0	62.8	29.6	29.6	48.9	36.7	26.5	59.4	38.8	27.7
HCM2kAvg:	7	13	13	9	12	12	10	14	8	8	12	5

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

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Intersection #100 PCH/Studebaker Rd

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Cycle (sec): 70 Critical Vol./Cap. (X): 0.890
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 20.8
Optimal Cycle:OPTIMIZED Level Of Service: C

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	1 1	0 0	1	0 0	1! 0	0
Volume Module:												
Base Vol:	130	1520	29	29	1734	165	185	21	188	60	40	14
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:	130	1520	29	29	1734	165	185	21	188	60	40	14
Added Vol:	0	26	0	0	22	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	130	1546	29	29	1756	165	185	21	188	60	40	14
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:	130	1546	29	29	1756	165	185	21	188	60	40	14
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	130	1546	29	29	1756	165	185	21	188	60	40	14
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 Vol.:	130	1546	29	29	1756	165	185	21	188	60	40	14
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.85	0.95	0.95	0.85	0.96	0.96	0.85	0.96	0.96	0.96
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	1.80	0.20	1.00	0.53	0.35	0.12
Final Sat.:	1805	5187	1615	1805	3610	1615	3266	371	1615	957	638	223
Capacity Analysis Module:												
Vol/Sat:	0.07	0.30	0.02	0.02	0.49	0.10	0.06	0.06	0.12	0.06	0.06	0.06
Crit Moves:	****				****				****			****
Green/Cycle:	0.08	0.60	0.60	0.03	0.55	0.55	0.13	0.13	0.13	0.07	0.07	0.07
Volume/Cap:	0.89	0.50	0.03	0.50	0.89	0.19	0.43	0.43	0.89	0.89	0.89	0.89
Delay/Veh:	75.5	8.3	5.9	40.0	19.5	8.1	28.7	28.7	63.7	80.0	80.0	80.0
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:	75.5	8.3	5.9	40.0	19.5	8.1	28.7	28.7	63.7	80.0	80.0	80.0
HCM2kAvg:	6	7	0	1	21	2	3	3	7	5	5	5

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #1 Studebaker Rd/SR-22 WB Ramps

Cycle (sec): 40 Critical Vol./Cap. (X): 0.702
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 14.0
Optimal Cycle:OPTIMIZED Level Of Service: B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	725	41	79	852	0	0	0	0	644	0	559
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	744	42	81	874	0	0	0	0	661	0	574
Added Vol:	0	31	9	0	40	0	0	0	0	30	0	0
PasserByVol:	0	1	0	0	2	0	0	0	0	120	0	0
Initial Fut:	0	776	51	81	916	0	0	0	0	811	0	574
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	776	0	81	916	0	0	0	0	811	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	776	0	81	916	0	0	0	0	811	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	776	0	81	916	0	0	0	0	811	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.92	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3610	1900	1805	3610	0	0	0	0	3502	0	1900
Capacity Analysis Module:												
Vol/Sat:	0.00	0.21	0.00	0.04	0.25	0.00	0.00	0.00	0.00	0.23	0.00	0.00
Crit Moves:		****		****						****		
Green/Cycle:	0.00	0.31	0.00	0.06	0.37	0.00	0.00	0.00	0.00	0.33	0.00	0.00
Volume/Cap:	0.00	0.70	0.00	0.70	0.69	0.00	0.00	0.00	0.00	0.70	0.00	0.00
Delay/Veh:	0.0	14.3	0.0	36.0	12.1	0.0	0.0	0.0	0.0	13.7	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:	0.0	14.3	0.0	36.0	12.1	0.0	0.0	0.0	0.0	13.7	0.0	0.0
HCM2kAvg:	0	6	0	3	6	0	0	0	0	6	0	0

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #1 Studebaker Rd/SR-22 WB Ramps

Cycle (sec): 75 Critical Vol./Cap. (X): 0.912
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 27.5
Optimal Cycle:OPTIMIZED Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	941	56	73	1375	0	0	0	0	1110	0	320
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	965	57	75	1411	0	0	0	0	1139	0	328
Added Vol:	0	90	19	0	84	0	0	0	0	63	0	0
PasserByVol:	0	2	0	0	2	0	0	0	0	30	0	0
Initial Put:	0	1057	76	75	1497	0	0	0	0	1232	0	328
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	1057	0	75	1497	0	0	0	0	1232	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1057	0	75	1497	0	0	0	0	1232	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	1057	0	75	1497	0	0	0	0	1232	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.92	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3610	1900	1805	3610	0	0	0	0	3502	0	1900
Capacity Analysis Module:												
Vol/Sat:	0.00	0.29	0.00	0.04	0.41	0.00	0.00	0.00	0.00	0.35	0.00	0.00
Crit Moves:	****				****					****		
Green/Cycle:	0.00	0.40	0.00	0.06	0.45	0.00	0.00	0.00	0.00	0.39	0.00	0.00
Volume/Cap:	0.00	0.74	0.00	0.74	0.91	0.00	0.00	0.00	0.00	0.91	0.00	0.00
Delay/Veh:	0.0	21.2	0.0	59.0	27.2	0.0	0.0	0.0	0.0	31.4	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:	0.0	21.2	0.0	59.0	27.2	0.0	0.0	0.0	0.0	31.4	0.0	0.0
HCM2kAvg:	0	12	0	3	21	0	0	0	0	19	0	0

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

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Intersection #2 Studebaker Rd/SR-22 EB Ramps

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Cycle (sec): 50 Critical Vol./Cap. (X): 0.554
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 6.2
Optimal Cycle:OPTIMIZED Level Of Service: A

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0 2	0	1	1 0 2	0	0	0 0 0	0	0	2 0 0	0	1
Volume Module:												
Base Vol:	0	710	1351	194	1263	0	0	0	0	20	0	107
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	728	1386	199	1296	0	0	0	0	21	0	110
Added Vol:	0	40	23	0	71	0	0	0	0	11	0	0
PasserByVol:	0	1	24	0	121	0	0	0	0	0	0	0
Initial Fut:	0	769	1433	199	1488	0	0	0	0	32	0	110
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	769	0	199	1488	0	0	0	0	32	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	769	0	199	1488	0	0	0	0	32	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	769	0	199	1488	0	0	0	0	32	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.92	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3610	1900	1805	3610	0	0	0	0	3502	0	1900
Capacity Analysis Module:												
Vol/Sat:	0.00	0.21	0.00	0.11	0.41	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Crit Moves:	****				****					****		
Green/Cycle:	0.00	0.49	0.00	0.25	0.74	0.00	0.00	0.00	0.00	0.02	0.00	0.00
Volume/Cap:	0.00	0.43	0.00	0.43	0.55	0.00	0.00	0.00	0.00	0.55	0.00	0.00
Delay/Veh:	0.0	8.4	0.0	16.3	3.0	0.0	0.0	0.0	0.0	35.8	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:	0.0	8.4	0.0	16.3	3.0	0.0	0.0	0.0	0.0	35.8	0.0	0.0
HCM2kAvg:	0	4	0	3	6	0	0	0	0	1	0	0

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #2 Studebaker Rd/SR-22 EB Ramps

Cycle (sec): 70 Critical Vol./Cap. (X): 0.799
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 10.5
Optimal Cycle:OPTIMIZED Level Of Service: B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L - T - R			L - T - R			L - T - R			L - T - R		
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0 2	0	1	1 0 2	0	0	0 0 0	0	0	2 0 0	0	1
Volume Module:												
Base Vol:	0	871	1074	376	2099	0	0	0	0	36	0	112
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	894	1102	386	2154	0	0	0	0	37	0	115
Added Vol:	0	109	68	0	148	0	0	0	0	18	0	0
PasserByVol:	0	2	129	0	32	0	0	0	0	0	0	0
Initial Put:	0	1005	1299	386	2334	0	0	0	0	55	0	115
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	1005	0	386	2334	0	0	0	0	55	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	1005	0	386	2334	0	0	0	0	55	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	1005	0	386	2334	0	0	0	0	55	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.92	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3610	1900	1805	3610	0	0	0	0	3502	0	1900
Capacity Analysis Module:												
Vol/Sat:	0.00	0.28	0.00	0.21	0.65	0.00	0.00	0.00	0.00	0.02	0.00	0.00
Crit Moves:	****				****					****		
Green/Cycle:	0.00	0.46	0.00	0.35	0.81	0.00	0.00	0.00	0.00	0.02	0.00	0.00
Volume/Cap:	0.00	0.61	0.00	0.61	0.80	0.00	0.00	0.00	0.00	0.80	0.00	0.00
Delay/Veh:	0.0	14.9	0.0	20.4	5.2	0.0	0.0	0.0	0.0	80.8	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:	0.0	14.9	0.0	20.4	5.2	0.0	0.0	0.0	0.0	80.8	0.0	0.0
HCM2kAvg:	0	9	0	8	16	0	0	0	0	2	0	0

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #6 PCH/7th St

Cycle (sec): 120 Critical Vol./Cap. (X): 1.046
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 54.7
Optimal Cycle:OPTIMIZED Level Of Service: D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	2 0	3 0	0	0 0	2 1	0	0 0	2 0	1
Volume Module:												
Base Vol:	125	1277	2	415	688	0	0	2022	152	0	1845	585
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	128	1310	2	426	706	0	0	2075	156	0	1893	600
Added Vol:	13	13	0	3	17	0	0	3	17	0	3	3
PasserByVol:	7	17	0	0	84	0	0	0	36	0	0	0
Initial Fut:	148	1340	2	429	807	0	0	2078	209	0	1896	603
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:	148	1340	2	429	807	0	0	2078	209	0	1896	603
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	148	1340	2	429	807	0	0	2078	209	0	1896	603
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 Vol.:	148	1340	2	429	807	0	0	2078	209	0	1896	603
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.91	0.92	0.91	1.00	1.00	0.90	0.90	1.00	0.95	0.85
Lanes:	1.00	2.99	0.01	2.00	3.00	0.00	0.00	2.73	0.27	0.00	2.00	1.00
Final Sat.:	1805	5179	8	3502	5187	0	0	4647	467	0	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.08	0.26	0.26	0.12	0.16	0.00	0.00	0.45	0.45	0.00	0.53	0.37
Crit Moves:		****		****			****				****	
Green/Cycle:	0.13	0.25	0.25	0.12	0.24	0.00	0.00	0.50	0.50	0.00	0.50	0.50
Volume/Cap:	0.65	1.05	1.05	1.05	0.65	0.00	0.00	0.89	0.89	0.00	1.05	0.74
Delay/Veh:	56.5	83.2	83.2	109.9	42.5	0.0	0.0	31.2	31.2	0.0	64.1	27.5
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:	56.5	83.2	83.2	109.9	42.5	0.0	0.0	31.2	31.2	0.0	64.1	27.5
HCM2kAvg:	7	24	24	13	10	0	0	28	28	0	45	19

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #6 PCH/7th St

Cycle (sec): 145 Critical Vol./Cap. (X): 1.129
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 87.8
Optimal Cycle:OPTIMIZED Level Of Service: F

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	2 0	3 0	0	0 0	2 1	0	0 0	2 0	1
Volume Module:												
Base Vol:	193	893	0	652	1191	0	0	2097	212	0	2119	438
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	198	916	0	669	1222	0	0	2152	218	0	2174	449
Added Vol:	40	40	0	5	37	0	0	5	37	0	5	5
PasserByVol:	39	91	0	0	22	0	0	0	9	0	0	0
Initial Fut:	277	1047	0	674	1281	0	0	2157	264	0	2179	454
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:	277	1047	0	674	1281	0	0	2157	264	0	2179	454
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	277	1047	0	674	1281	0	0	2157	264	0	2179	454
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 Vol.:	277	1047	0	674	1281	0	0	2157	264	0	2179	454
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.91	0.92	0.91	1.00	1.00	0.90	0.90	1.00	0.95	0.85
Lanes:	1.00	3.00	0.00	2.00	3.00	0.00	0.00	2.67	0.33	0.00	2.00	1.00
Final Sat.:	1805	5187	0	3502	5187	0	0	4548	556	0	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.15	0.20	0.00	0.19	0.25	0.00	0.00	0.47	0.47	0.00	0.60	0.28
Crit Moves:	****				****		****				****	
Green/Cycle:	0.14	0.18	0.00	0.17	0.22	0.00	0.00	0.53	0.53	0.00	0.53	0.53
Volume/Cap:	1.13	1.11	0.00	1.11	1.13	0.00	0.00	0.89	0.89	0.00	1.13	0.53
Delay/Veh:	159.1	124	0.0	131.0	126	0.0	0.0	33.7	33.7	0.0	98.9	22.4
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:	159.1	124	0.0	131.0	126	0.0	0.0	33.7	33.7	0.0	98.9	22.4
HCM2kAvg:	20	23	0	24	28	0	0	34	34	0	66	13

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #7 PCH/Bellflower Blvd

Cycle (sec): 45 Critical Vol./Cap. (X): 0.767
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 17.1
Optimal Cycle:OPTIMIZED Level Of Service: B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 1	0	1 0	2 0	1	1 1	2 0	1
Volume Module:												
Base Vol:	44	1315	423	20	815	20	119	461	19	209	127	0
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	45	1349	434	21	836	21	122	473	19	214	130	0
Added Vol:	0	25	19	0	34	0	0	0	0	25	0	0
PasserByVol:	0	24	0	0	120	0	0	0	0	0	0	0
Initial Fut:	45	1398	453	21	990	21	122	473	19	239	130	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:	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:	45	1398	453	21	990	21	122	473	19	239	130	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	45	1398	453	21	990	21	122	473	19	239	130	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 Vol.:	45	1398	453	21	990	21	122	473	19	239	130	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.85	0.95	0.91	0.91	0.95	0.95	0.85	0.88	0.88	1.00
Lanes:	1.00	3.00	1.00	1.00	2.94	0.06	1.00	2.00	1.00	2.00	2.00	1.00
Final Sat.:	1805	5187	1615	1805	5066	105	1805	3610	1615	3351	3351	1900
Capacity Analysis Module:												
Vol/Sat:	0.03	0.27	0.28	0.01	0.20	0.20	0.07	0.13	0.01	0.07	0.04	0.00
Crit Moves:			****	****				****		****		
Green/Cycle:	0.04	0.37	0.37	0.01	0.34	0.34	0.17	0.17	0.17	0.09	0.09	0.00
Volume/Cap:	0.58	0.74	0.77	0.77	0.58	0.58	0.40	0.77	0.07	0.77	0.42	0.00
Delay/Veh:	31.6	13.9	18.6	101.9	12.8	12.8	17.4	23.6	15.8	27.2	19.6	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:	31.6	13.9	18.6	101.9	12.8	12.8	17.4	23.6	15.8	27.2	19.6	0.0
HCM2kAvg:	2	8	8	2	5	5	2	5	0	4	1	0

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

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Intersection #7 PCH/Bellflower Blvd

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Cycle (sec): 60 Critical Vol./Cap. (X): 0.814
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 24.3
Optimal Cycle:OPTIMIZED Level Of Service: C

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 1	0	1 0	2 0	1	1 1	2 0	1
Volume Module:												
Base Vol:	134	969	382	98	1177	75	45	314	11	474	351	6
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	137	994	392	101	1208	77	46	322	11	486	360	6
Added Vol:	0	79	59	0	74	0	0	0	0	56	0	0
PasserByVol:	0	130	0	0	31	0	0	0	0	0	0	0
Initial Fut:	137	1203	451	101	1313	77	46	322	11	542	360	6
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:	137	1203	451	101	1313	77	46	322	11	542	360	6
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	137	1203	451	101	1313	77	46	322	11	542	360	6
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 Vol.:	137	1203	451	101	1313	77	46	322	11	542	360	6
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.85	0.95	0.90	0.90	0.95	0.95	0.85	0.88	0.88	0.85
Lanes:	1.00	3.00	1.00	1.00	2.83	0.17	1.00	2.00	1.00	2.00	2.00	1.00
Final Sat.:	1805	5187	1615	1805	4861	285	1805	3610	1615	3358	3358	1615
Capacity Analysis Module:												
Vol/Sat:	0.08	0.23	0.28	0.06	0.27	0.27	0.03	0.09	0.01	0.16	0.11	0.00
Crit Moves:	****				****			****		****		
Green/Cycle:	0.09	0.35	0.35	0.07	0.33	0.33	0.11	0.11	0.11	0.20	0.20	0.20
Volume/Cap:	0.81	0.65	0.79	0.79	0.81	0.81	0.23	0.81	0.06	0.81	0.54	0.02
Delay/Veh:	51.9	17.1	24.5	54.4	21.5	21.5	25.0	38.3	24.1	27.7	22.0	19.4
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:	51.9	17.1	24.5	54.4	21.5	21.5	25.0	38.3	24.1	27.7	22.0	19.4
HCM2kAvg:	5	7	10	4	11	11	1	5	0	8	4	0

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

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Intersection #8 PCH/Loynes Dr

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Cycle (sec): 55 Critical Vol./Cap. (X): 0.787
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 17.1
Optimal Cycle:OPTIMIZED Level Of Service: B

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	1 0	3 0	1	1 0	1 1	0	1 0	2 0	1
Volume Module:												
Base Vol:	48	1770	84	34	827	19	28	177	112	93	130	70
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	49	1836	86	35	849	19	29	182	115	95	133	72
Added Vol:	1	16	1	34	25	0	0	3	1	2	2	28
PasserByVol:	0	24	0	0	120	0	0	0	0	0	0	0
Initial Fut:	50	1856	87	69	994	19	29	185	116	97	135	100
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:	50	1856	87	69	994	19	29	185	116	97	135	100
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	50	1856	87	69	994	19	29	185	116	97	135	100
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 Vol.:	50	1856	87	69	994	19	29	185	116	97	135	100
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.90	0.90	0.95	0.91	0.85	0.95	0.89	0.89	0.95	0.95	0.85
Lanes:	1.00	2.87	0.13	1.00	3.00	1.00	1.00	1.23	0.77	1.00	2.00	1.00
Final Sat.:	1805	4920	231	1805	5187	1615	1805	2089	1312	1805	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.03	0.38	0.38	0.04	0.19	0.01	0.02	0.09	0.09	0.05	0.04	0.06
Crit Moves:		****		****				****		****		
Green/Cycle:	0.07	0.48	0.48	0.05	0.46	0.46	0.04	0.11	0.11	0.07	0.14	0.14
Volume/Cap:	0.42	0.79	0.79	0.79	0.42	0.03	0.43	0.79	0.79	0.79	0.26	0.43
Delay/Veh:	26.9	13.7	13.7	62.2	10.0	8.1	30.3	34.1	34.1	52.7	21.2	22.8
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:	26.9	13.7	13.7	62.2	10.0	8.1	30.3	34.1	34.1	52.7	21.2	22.8
HCM2kAvg:	1	11	11	3	4	0	1	5	5	4	1	2

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #8 PCH/Loynes Dr

Cycle (sec): 65 Critical Vol./Cap. (X): 0.866
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 24.9
Optimal Cycle:OPTIMIZED Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 1	0	1 0	3 0	1	1 0	1 1	0	1 0	2 0	1
Volume Module:												
Base Vol:	163	1277	122	47	1690	32	31	203	103	185	322	51
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	167	1310	125	48	1734	33	32	208	106	190	330	52
Added Vol:	5	82	7	54	76	0	0	4	4	6	4	57
PasserByVol:	0	130	0	0	31	0	0	0	0	0	0	0
Initial Fut:	172	1522	132	102	1841	33	32	212	110	196	334	109
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:	172	1522	132	102	1841	33	32	212	110	196	334	109
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	172	1522	132	102	1841	33	32	212	110	196	334	109
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 Vol.:	172	1522	132	102	1841	33	32	212	110	196	334	109
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.90	0.90	0.95	0.91	0.85	0.95	0.90	0.90	0.95	0.95	0.85
Lanes:	1.00	2.76	0.24	1.00	3.00	1.00	1.00	1.32	0.68	1.00	2.00	1.00
Final Sat.:	1805	4715	409	1805	5187	1615	1805	2259	1167	1805	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.10	0.32	0.32	0.06	0.35	0.02	0.02	0.09	0.09	0.11	0.09	0.07
Crit Moves:	****				****			****		****		
Green/Cycle:	0.11	0.44	0.44	0.08	0.41	0.41	0.04	0.11	0.11	0.13	0.20	0.20
Volume/Cap:	0.87	0.73	0.73	0.73	0.87	0.05	0.47	0.87	0.87	0.87	0.47	0.34
Delay/Veh:	58.9	16.2	16.2	46.9	21.6	11.6	35.8	47.3	47.3	55.6	23.6	23.2
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:	58.9	16.2	16.2	46.9	21.6	11.6	35.8	47.3	47.3	55.6	23.6	23.2
HCM2kAvg:	7	11	11	4	15	0	1	6	6	7	4	2

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #9 PCH/2nd St

Cycle (sec): 70 Critical Vol./Cap. (X): 0.917
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 31.8
Optimal Cycle:OPTIMIZED Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	2 0	2 1	0	2 0	3 0	1	2 0	2 1	1	2 0	3 0	1
Volume Module:												
Base Vol:	497	1150	406	114	668	179	183	1117	299	251	549	168
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	510	1180	417	117	685	184	188	1146	307	258	563	172
Added Vol:	7	18	25	0	28	0	0	20	11	34	16	0
PasserByVol:	1	9	0	80	40	0	0	24	8	0	11	13
Initial Fut:	518	1207	442	197	753	184	188	1190	326	292	590	185
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:	518	1207	442	197	753	184	188	1190	326	292	590	185
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	518	1207	442	197	753	184	188	1190	326	292	590	185
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 Vol.:	518	1207	442	197	753	184	188	1190	326	292	590	185
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.87	0.87	0.92	0.91	0.85	0.92	0.88	0.88	0.92	0.91	0.85
Lanes:	2.00	2.20	0.80	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3502	3646	1334	3502	5187	1615	3502	5021	1674	3502	5187	1615
Capacity Analysis Module:												
Vol/Sat:	0.15	0.33	0.33	0.06	0.15	0.11	0.05	0.24	0.19	0.08	0.11	0.11
Crit Moves:		****		****				****		****		
Green/Cycle:	0.21	0.36	0.36	0.06	0.21	0.21	0.11	0.26	0.26	0.09	0.24	0.24
Volume/Cap:	0.69	0.92	0.92	0.92	0.69	0.54	0.48	0.92	0.75	0.92	0.48	0.48
Delay/Veh:	28.3	29.3	29.3	71.9	27.6	26.5	30.2	33.7	25.6	61.7	23.2	23.9
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:	28.3	29.3	29.3	71.9	27.6	26.5	30.2	33.7	25.6	61.7	23.2	23.9
HCM2kAvg:	7	16	16	5	7	4	3	13	6	7	4	4

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

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Intersection #9 PCH/2nd St

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Cycle (sec): 100 Critical Vol./Cap. (X): 0.978
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 51.9
Optimal Cycle:OPTIMIZED Level Of Service: D

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	2 0	2 1	0	2 0	3 0	1	2 0	2 1	1	2 0	3 0	1
Volume Module:												
Base Vol:	338	1024	361	222	1328	482	496	1311	438	321	920	271
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	347	1051	370	228	1363	495	509	1345	449	329	944	278
Added Vol:	35	94	104	0	86	0	0	31	32	97	32	0
PasserByVol:	9	53	0	25	6	0	0	17	1	0	27	76
Initial Fut:	391	1198	474	253	1455	495	509	1393	482	426	1003	354
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:	391	1198	474	253	1455	495	509	1393	482	426	1003	354
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	391	1198	474	253	1455	495	509	1393	482	426	1003	354
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 Vol.:	391	1198	474	253	1455	495	509	1393	482	426	1003	354
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.87	0.87	0.92	0.91	0.85	0.92	0.87	0.87	0.92	0.91	0.85
Lanes:	2.00	2.15	0.85	2.00	3.00	1.00	2.00	2.97	1.03	2.00	3.00	1.00
Final Sat.:	3502	3556	1408	3502	5187	1615	3502	4937	1709	3502	5187	1615
Capacity Analysis Module:												
Vol/Sat:	0.11	0.34	0.34	0.07	0.28	0.31	0.15	0.28	0.28	0.12	0.19	0.22
Crit Moves:	****					****		****		****		
Green/Cycle:	0.11	0.35	0.35	0.08	0.31	0.31	0.16	0.29	0.29	0.12	0.25	0.25
Volume/Cap:	0.98	0.96	0.96	0.96	0.90	0.98	0.88	0.98	0.98	0.98	0.78	0.88
Delay/Veh:	83.3	44.6	44.6	89.8	39.7	68.3	55.7	50.9	50.9	80.9	38.1	56.1
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:	83.3	44.6	44.6	89.8	39.7	68.3	55.7	50.9	50.9	80.9	38.1	56.1
HCM2kAvg:	10	22	22	7	18	21	11	20	20	11	11	14

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #100 PCH/Studebaker Rd

Cycle (sec): 80 Critical Vol./Cap. (X): 0.877
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 25.8
Optimal Cycle:OPTIMIZED Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	1 1	0 0	1	0 0	1! 0	0
Volume Module:												
Base Vol:	76	2216	17	8	1352	65	58	11	293	6	2	1
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	78	2274	17	8	1387	67	60	11	301	6	2	1
Added Vol:	0	7	4	67	5	0	0	0	0	2	0	43
PasserByVol:	0	10	0	0	8	0	0	0	0	0	0	0
Initial Fut:	78	2291	21	75	1400	67	60	11	301	8	2	44
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:	78	2291	21	75	1400	67	60	11	301	8	2	44
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	78	2291	21	75	1400	67	60	11	301	8	2	44
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 Vol.:	78	2291	21	75	1400	67	60	11	301	8	2	44
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.85	0.95	0.95	0.85	0.96	0.96	0.85	0.88	0.88	0.88
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	1.68	0.32	1.00	0.15	0.04	0.81
Final Sat.:	1805	5187	1615	1805	3610	1615	3066	582	1615	253	64	1363
Capacity Analysis Module:												
Vol/Sat:	0.04	0.44	0.01	0.04	0.39	0.04	0.02	0.02	0.19	0.03	0.03	0.03
Crit Moves:		****		****					****		****	
Green/Cycle:	0.06	0.50	0.50	0.05	0.50	0.50	0.21	0.21	0.21	0.04	0.04	0.04
Volume/Cap:	0.78	0.88	0.03	0.88	0.78	0.08	0.09	0.09	0.88	0.88	0.88	0.88
Delay/Veh:	69.4	21.4	10.0	96.4	18.9	10.7	25.4	25.4	52.2	110.7	111	110.7
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:	69.4	21.4	10.0	96.4	18.9	10.7	25.4	25.4	52.2	110.7	111	110.7
HCM2kAvg:	4	20	0	4	16	1	1	1	11	3	3	3

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

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Intersection #100 PCH/Studebaker Rd

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Cycle (sec): 140 Critical Vol./Cap. (X): 1.214
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 109.0
Optimal Cycle:OPTIMIZED Level Of Service: F

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	1 1	0 0	1	0 0	1! 0	0
Volume Module:												
Base Vol:	147	1470	18	19	1892	66	194	13	377	71	32	18
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	151	1508	18	19	1941	68	199	13	387	73	33	18
Added Vol:	0	10	11	205	11	0	0	0	0	12	0	222
PasserByVol:	0	62	0	0	7	0	0	0	0	0	0	0
Initial Fut:	151	1580	29	224	1959	68	199	13	387	85	33	240
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:	151	1580	29	224	1959	68	199	13	387	85	33	240
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	151	1580	29	224	1959	68	199	13	387	85	33	240
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 Vol.:	151	1580	29	224	1959	68	199	13	387	85	33	240
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.85	0.95	0.95	0.85	0.96	0.96	0.85	0.90	0.90	0.90
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	1.87	0.13	1.00	0.24	0.09	0.67
Final Sat.:	1805	5187	1615	1805	3610	1615	3401	228	1615	404	156	1146
Capacity Analysis Module:												
Vol/Sat:	0.08	0.30	0.02	0.12	0.54	0.04	0.06	0.06	0.24	0.21	0.21	0.21
Crit Moves:	****				****				****		****	
Green/Cycle:	0.07	0.37	0.37	0.15	0.45	0.45	0.20	0.20	0.20	0.17	0.17	0.17
Volume/Cap:	1.21	0.83	0.05	0.83	1.21	0.09	0.30	0.30	1.21	1.21	1.21	1.21
Delay/Veh:	214.7	43.7	28.7	77.1	141	22.4	48.2	48.2	178.0	181.4	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:	214.7	43.7	28.7	77.1	141	22.4	48.2	48.2	178.0	181.4	181	181.4
HCM2kAvg:	13	23	1	12	64	2	4	4	27	26	26	26

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #1 Studebaker Rd/SR-22 WB Ramps

Cycle (sec): 45 Critical Vol./Cap. (X): 0.759
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 13.6
Optimal Cycle:OPTIMIZED Level Of Service: B

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	2 0	1	1 0	2 0	0	0 0	0 0	0	2 0	0 0	1
Volume Module:												
Base Vol:	0	465	37	56	736	0	0	0	0	886	0	1
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	477	38	57	724	0	0	0	0	909	0	1
Added Vol:	0	148	38	0	168	0	0	0	0	174	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	625	76	57	892	0	0	0	0	1083	0	1
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	625	0	57	892	0	0	0	0	1083	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	625	0	57	892	0	0	0	0	1083	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	625	0	57	892	0	0	0	0	1083	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.92	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3610	1900	1805	3610	0	0	0	0	3502	0	1900
Capacity Analysis Module:												
Vol/Sat:	0.00	0.17	0.00	0.03	0.25	0.00	0.00	0.00	0.00	0.31	0.00	0.00
Crit Moves:	****				****					****		
Green/Cycle:	0.00	0.28	0.00	0.05	0.33	0.00	0.00	0.00	0.00	0.41	0.00	0.00
Volume/Cap:	0.00	0.63	0.00	0.63	0.76	0.00	0.00	0.00	0.00	0.76	0.00	0.00
Delay/Veh:	0.0	15.6	0.0	34.2	16.5	0.0	0.0	0.0	0.0	13.8	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:	0.0	15.6	0.0	34.2	16.5	0.0	0.0	0.0	0.0	13.8	0.0	0.0
HCM2kAvg:	0	5	0	2	8	0	0	0	0	9	0	0

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #2 Studebaker Rd/SR-22 EB Ramps

Cycle (sec): 60 Critical Vol./Cap. (X): 0.644
Loss Time (sec): 12 (Y+R = 4 sec) Average Delay (sec/veh): 6.5
Optimal Cycle:OPTIMIZED Level Of Service: A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L - T - R			L - T - R			L - T - R			L - T - R		
Control:	Protected			Protected			Protected			Protected		
Rights:	Ignore			Include			Include			Ignore		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0 2	0	1	1 0 2	0	0	0 0 0	0	0	2 0 0	0	1
Volume Module:												
Base Vol:	0	466	1044	148	1421	0	0	0	0	13	0	42
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	478	1071	152	1458	0	0	0	0	13	0	43
Added Vol:	0	186	152	0	341	0	0	0	0	45	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	664	1223	152	1799	0	0	0	0	58	0	43
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
PHF Volume:	0	664	0	152	1799	0	0	0	0	58	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	664	0	152	1799	0	0	0	0	58	0	0
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Final Vol.:	0	664	0	152	1799	0	0	0	0	58	0	0
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	1.00	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.92	1.00	1.00
Lanes:	0.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	0	3610	1900	1805	3610	0	0	0	0	3502	0	1900
Capacity Analysis Module:												
Vol/Sat:	0.00	0.18	0.00	0.08	0.50	0.00	0.00	0.00	0.00	0.02	0.00	0.00
Crit Moves:	****				****					****		
Green/Cycle:	0.00	0.53	0.00	0.24	0.77	0.00	0.00	0.00	0.00	0.03	0.00	0.00
Volume/Cap:	0.00	0.35	0.00	0.35	0.64	0.00	0.00	0.00	0.00	0.64	0.00	0.00
Delay/Veh:	0.0	8.2	0.0	19.3	3.6	0.0	0.0	0.0	0.0	43.7	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:	0.0	8.2	0.0	19.3	3.6	0.0	0.0	0.0	0.0	43.7	0.0	0.0
HCM2kAvg:	0	4	0	3	9	0	0	0	0	2	0	0

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

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Intersection #6 PCH/7th St

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Cycle (sec): 75 Critical Vol./Cap. (X): 0.892
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 30.9
Optimal Cycle:OPTIMIZED Level Of Service: C

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0 2 1 0			2 0 3 0 0			0 0 2 1 0			0 0 2 0 1		
Volume Module:												
Base Vol:	171	763	23	482	926	0	0	1490	191	0	1179	431
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	175	783	24	495	950	0	0	1529	196	0	1210	442
Added Vol:	75	91	0	13	105	0	0	13	85	0	11	11
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	250	874	24	508	1055	0	0	1542	281	0	1221	453
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:	250	874	24	508	1055	0	0	1542	281	0	1221	453
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	250	874	24	508	1055	0	0	1542	281	0	1221	453
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 Vol.:	250	874	24	508	1055	0	0	1542	281	0	1221	453
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.91	0.92	0.91	1.00	1.00	0.89	0.89	1.00	0.95	0.85
Lanes:	1.00	2.92	0.08	2.00	3.00	0.00	0.00	2.54	0.46	0.00	2.00	1.00
Final Sat.:	1805	5030	136	3502	5187	0	0	4287	781	0	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.14	0.17	0.17	0.14	0.20	0.00	0.00	0.36	0.36	0.00	0.34	0.28
Crit Moves:	****				****			****		****		
Green/Cycle:	0.16	0.21	0.21	0.17	0.23	0.00	0.00	0.40	0.40	0.00	0.40	0.40
Volume/Cap:	0.89	0.83	0.83	0.83	0.89	0.00	0.00	0.89	0.89	0.00	0.84	0.70
Delay/Veh:	58.9	34.0	34.0	39.3	36.9	0.0	0.0	26.3	26.3	0.0	24.7	21.9
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:	58.9	34.0	34.0	39.3	36.9	0.0	0.0	26.3	26.3	0.0	24.7	21.9
HCM2kAvg:	9	9	9	9	12	0	0	17	17	0	16	10

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #7 PCH/Bellflower Blvd

Cycle (sec): 55 Critical Vol./Cap. (X): 0.804
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 21.0
Optimal Cycle:OPTIMIZED Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0 3 0 1			1 0 2 1 0			1 0 2 0 1			1 1 2 0 1		
Volume Module:												
Base Vol:	76	858	374	46	1028	37	55	210	46	512	274	21
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	78	921	384	47	1055	38	56	215	47	525	281	22
Added Vol:	0	167	94	0	190	0	0	0	0	106	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	78	1088	478	47	1245	38	56	215	47	631	281	22
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:	78	1088	478	47	1245	38	56	215	47	631	281	22
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	78	1088	478	47	1245	38	56	215	47	631	281	22
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 Vol.:	78	1088	478	47	1245	38	56	215	47	631	281	22
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.85	0.95	0.91	0.91	0.95	0.95	0.85	0.88	0.88	0.85
Lanes:	1.00	3.00	1.00	1.00	2.91	0.09	1.00	2.00	1.00	2.00	2.00	1.00
Final Sat.:	1805	5187	1615	1805	5013	153	1805	3610	1615	3344	3344	1615
Capacity Analysis Module:												
Vol/Sat:	0.04	0.21	0.30	0.03	0.25	0.25	0.03	0.06	0.03	0.19	0.08	0.01
Crit Moves:			****	****				****		****		
Green/Cycle:	0.06	0.37	0.37	0.03	0.34	0.34	0.07	0.07	0.07	0.23	0.23	0.23
Volume/Cap:	0.73	0.57	0.80	0.80	0.73	0.73	0.42	0.80	0.39	0.80	0.36	0.06
Delay/Veh:	47.6	14.3	23.5	80.2	17.5	17.5	26.5	41.1	26.4	24.1	17.7	16.4
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:	47.6	14.3	23.5	80.2	17.5	17.5	26.5	41.1	26.4	24.1	17.7	16.4
HCM2xAvg:	3	6	10	3	8	8	2	4	1	8	2	0

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

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Intersection #8 PCH/Loynes Dr

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Cycle (sec): 65 Critical Vol./Cap. (X): 0.838
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 25.3
Optimal Cycle:OPTIMIZED Level Of Service: C

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Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0 2	1 0		1 0 3	0 1		1 0 1	1 0		1 0 2	0 1	
Volume Module:												
Base Vol:	142	823	140	27	1514	12	34	124	127	227	140	24
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	146	844	144	28	1553	12	35	127	130	233	144	25
Added Vol:	6	146	9	135	162	0	0	10	7	10	9	115
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	152	990	153	163	1715	12	35	137	137	243	153	140
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:	152	990	153	163	1715	12	35	137	137	243	153	140
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	152	990	153	163	1715	12	35	137	137	243	153	140
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 Vol.:	152	990	153	163	1715	12	35	137	137	243	153	140
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.89	0.89	0.95	0.91	0.85	0.95	0.88	0.88	0.95	0.95	0.85
Lanes:	1.00	2.60	0.40	1.00	3.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00
Final Sat.:	1805	4404	679	1805	5187	1615	1805	1670	1670	1805	3610	1615
Capacity Analysis Module:												
Vol/Sat:	0.08	0.22	0.22	0.09	0.33	0.01	0.02	0.08	0.08	0.13	0.04	0.09
Crit Moves:	****				****			****		****		
Green/Cycle:	0.10	0.35	0.35	0.14	0.39	0.39	0.05	0.10	0.10	0.16	0.21	0.21
Volume/Cap:	0.84	0.64	0.64	0.64	0.84	0.02	0.41	0.84	0.84	0.84	0.20	0.41
Delay/Veh:	56.3	18.3	18.3	31.5	21.0	12.0	33.3	45.8	45.9	45.3	21.2	22.9
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:	56.3	18.3	18.3	31.5	21.0	12.0	33.3	45.8	45.9	45.3	21.2	22.9
HCM2kAvg:	6	7	7	4	13	0	1	5	5	8	1	3

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Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #9 PCH/2nd St

Cycle (sec): 85 Critical Vol./Cap. (X): 0.946
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 42.5
Optimal Cycle:OPTIMIZED Level Of Service: D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	2 0	2 1	0	2 0	3 0	1	2 0	2 1	1	2 0	3 0	1
Volume Module:												
Base Vol:	353	986	173	241	980	227	512	1135	314	369	959	191
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	362	1012	177	247	1005	233	525	1165	322	379	984	196
Added Vol:	53	161	146	0	178	0	0	77	58	152	66	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	415	1173	323	247	1183	233	525	1242	380	531	1050	196
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:	415	1173	323	247	1183	233	525	1242	380	531	1050	196
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	415	1173	323	247	1183	233	525	1242	380	531	1050	196
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 Vol.:	415	1173	323	247	1183	233	525	1242	380	531	1050	196
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.88	0.88	0.92	0.91	0.85	0.92	0.88	0.88	0.92	0.91	0.85
Lanes:	2.00	2.35	0.65	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00
Final Sat.:	3502	3935	1086	3502	5187	1615	3502	5005	1668	3502	5187	1615
Capacity Analysis Module:												
Vol/Sat:	0.12	0.30	0.30	0.07	0.23	0.14	0.15	0.25	0.23	0.15	0.20	0.12
Crit Moves:		****		****				****		****		
Green/Cycle:	0.13	0.31	0.31	0.07	0.26	0.26	0.18	0.26	0.26	0.16	0.24	0.24
Volume/Cap:	0.89	0.95	0.95	0.95	0.89	0.56	0.83	0.95	0.87	0.95	0.83	0.50
Delay/Veh:	54.9	40.6	40.6	80.2	38.3	29.2	43.1	42.2	34.7	60.6	35.6	28.8
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:	54.9	40.6	40.6	80.2	38.3	29.2	43.1	42.2	34.7	60.6	35.6	28.8
HCM2kAvg:	9	18	18	7	14	6	10	15	13	12	11	5

Long Beach Home Depot Center

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #100 PCH/Studebaker Rd

Cycle (sec): 130 Critical Vol./Cap. (X): 1.087
Loss Time (sec): 16 (Y+R = 4 sec) Average Delay (sec/veh): 76.9
Optimal Cycle:OPTIMIZED Level Of Service: E

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	3 0	1	1 0	2 0	1	1 1	0 0	1	0 0	1! 0	0
Volume Module:												
Base Vol:	130	1520	29	29	1734	165	185	21	188	60	40	14
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	133	1560	30	30	1779	169	190	22	193	62	41	14
Added Vol:	0	74	16	309	80	0	0	0	0	15	0	285
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	133	1634	46	339	1859	169	190	22	193	77	41	299
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:	133	1634	46	339	1859	169	190	22	193	77	41	299
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	133	1634	46	339	1859	169	190	22	193	77	41	299
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 Vol.:	133	1634	46	339	1859	169	190	22	193	77	41	299
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.91	0.85	0.95	0.95	0.85	0.96	0.96	0.85	0.89	0.89	0.89
Lanes:	1.00	3.00	1.00	1.00	2.00	1.00	1.80	0.20	1.00	0.18	0.10	0.72
Final Sat.:	1805	5187	1615	1805	3610	1615	3266	371	1615	312	167	1221
Capacity Analysis Module:												
Vol/Sat:	0.07	0.31	0.03	0.19	0.51	0.10	0.06	0.06	0.12	0.25	0.25	0.25
Crit Moves:	****				****				****		****	
Green/Cycle:	0.07	0.34	0.34	0.20	0.47	0.47	0.11	0.11	0.11	0.23	0.23	0.23
Volume/Cap:	1.09	0.93	0.08	0.93	1.09	0.22	0.53	0.53	1.09	1.09	1.09	1.09
Delay/Veh:	167.2	50.5	29.3	80.4	83.9	20.3	56.0	56.0	150.7	121.8	122	121.8
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:	167.2	50.5	29.3	80.4	83.9	20.3	56.0	56.0	150.7	121.8	122	121.8
HCM2kAvg:	10	25	1	18	50	4	5	5	13	25	25	25

APPENDIX J

TIMED SURVEY DATA

Long Beach Home Depot Timed Surveys

Weekday AM Peak Hour (7:00 a.m. to 9:00 a.m.)

Route 1: PCH/7th Street to Studebaker/Loynes (via PCH and Loynes Drive)

	3/14/2005	3/17/2005	Average
Survey 1			
PCH/7th Street to Studebaker/Loynes	5 min 10 sec	6 min 3 sec	5 min 37 sec
Studebaker/Loynes to PCH/7th Street	4 min 45 sec	4 min 58 sec	4 min 52 sec
Survey 2			
PCH/7th Street to Studebaker/Loynes	4 min 57 sec	5 min 30 sec	5 min 14 sec
Studebaker/Loynes to PCH/7th Street	4 min 32 sec	5 min 15 sec	4 min 54 sec

Route 2: PCH/7th Street to Studebaker/Loynes (via 7th Street-SR-22 and Studebaker)

	3/14/2005	3/17/2005	Average
Survey 1			
PCH/7th Street to Studebaker/Loynes	6 min 3 sec	5 min 22 sec	5 min 43 sec
Studebaker/Loynes to PCH/7th Street	8 min 45 sec	7 min 6 sec	7 min 56 sec
Survey 2			
PCH/7th Street to Studebaker/Loynes	5 min 51 sec	5 min 37 sec	5 min 44 sec
Studebaker/Loynes to PCH/7th Street	7 min 22 sec	7 min 12 sec	7 min 17 sec

Route 3: PCH/7th Street to Studebaker/Loynes (via 7th Street, Margo Avenue, Loynes Drive)

	3/14/2005	3/17/2005	Average
Survey 1			
PCH/7th Street to Studebaker/Loynes	5 min 17 sec	4 min 49 sec	5 min 3 sec
Studebaker/Loynes to PCH/7th Street	7 min 18 sec	5 min	6 min 9 sec
Survey 2			
PCH/7th Street to Studebaker/Loynes	6 min 3 sec	4 min 33 sec	5 min 18 sec
Studebaker/Loynes to PCH/7th Street	6 min 51 sec	7 min 7 sec	6 min 59 sec

Route 4: PCH/7th Street to Studebaker/Loynes (via 7th Street, Silvera Avenue, Loynes Drive)

	3/14/2005	3/17/2005	Average
Survey 1			
PCH/7th Street to Studebaker/Loynes	4 min 59 sec	5 min 54 sec	5 min 27 sec
Survey 2			
PCH/7th Street to Studebaker/Loynes	5 min 11 sec	4 min 23 sec	4 min 47 sec

Long Beach Home Depot Timed Surveys

Weekday PM Peak Hour (4:00 p.m. to 6:00 p.m.)

Route 1: PCH/7th Street to Studebaker/Loynes (via PCH and Loynes Drive)

	3/14/2005	3/17/2005	Average
Survey 1			
PCH/7th Street to Studebaker/Loynes	4 min 40 sec	5 min 32 sec	5 min 6 sec
Studebaker/Loynes to PCH/7th Street	4 min 7 sec	4 min 57 sec	4 min 32 sec
Survey 2			
PCH/7th Street to Studebaker/Loynes	5 min 7 sec	5 min 15 sec	5 min 11 sec
Studebaker/Loynes to PCH/7th Street	4 min 19 sec	4 min 21 sec	4 min 20 sec

Route 2: PCH/7th Street to Studebaker/Loynes (via 7th Street-SR-22 and Studebaker)

	3/14/2005	3/17/2005	Average
Survey 1			
PCH/7th Street to Studebaker/Loynes	5 min 44 sec	5 min 48 sec	5 min 46 sec
Studebaker/Loynes to PCH/7th Street	8 min 20 sec	8 min 13 sec	8 min 17 sec
Survey 2			
PCH/7th Street to Studebaker/Loynes	6 min 33 sec	6 min 3 sec	6 min 18 sec
Studebaker/Loynes to PCH/7th Street	7 min 42 sec	7 min 53 sec	7 min 48 sec

Route 3: PCH/7th Street to Studebaker/Loynes (via 7th Street, Margo Avenue, Loynes Drive)

	3/14/2005	3/17/2005	Average
Survey 1			
PCH/7th Street to Studebaker/Loynes	5 min 9 sec	6 min 27 sec	5 min 48 sec
Studebaker/Loynes to PCH/7th Street	6 min 25 sec	7 min 11 sec	6 min 48 sec
Survey 2			
PCH/7th Street to Studebaker/Loynes	4 min 59 sec	6 min 16 sec	5 min 38 sec
Studebaker/Loynes to PCH/7th Street	6 min 47 sec	7 min 14 sec	7 min 1 sec

Route 4: PCH/7th Street to Studebaker/Loynes (via 7th Street, Silvera Avenue, Loynes Drive)

	3/14/2005	3/17/2005	Average
Survey 1			
PCH/7th Street to Studebaker/Loynes	5 min 36 sec	5 min 34 sec	5 min 35 sec
Survey 2			
PCH/7th Street to Studebaker/Loynes	4 min 56 sec	5 min 11 sec	5 min 4 sec

Long Beach Home Depot Timed Surveys

Weekend Mid-Day Peak Hour (11:00 a.m. to 1:00 p.m.)

Route 1: PCH/7th Street to Studebaker/Loynes (via PCH and Loynes Drive)

	Time
Survey 1	
PCH/7th Street to Studebaker/Loynes	4 min 2 sec
Studebaker/Loynes to PCH/7th Street	3 min 3 sec
Survey 2	
PCH/7th Street to Studebaker/Loynes	3 min 4 sec
Studebaker/Loynes to PCH/7th Street	2 min 27 sec

Route 2: PCH/7th Street to Studebaker/Loynes (via 7th Street-SR-22 and Studebaker)

	Time
Survey 1	
PCH/7th Street to Studebaker/Loynes	4 min 10 sec
Studebaker/Loynes to PCH/7th Street	6 min
Survey 2	
PCH/7th Street to Studebaker/Loynes	3 min 37 sec
Studebaker/Loynes to PCH/7th Street	3 min 55 sec

Route 3: PCH/7th Street to Studebaker/Loynes (via 7th Street, Margo Avenue, Loynes Drive)

	Time
Survey 1	
PCH/7th Street to Studebaker/Loynes	4 min 35 sec
Studebaker/Loynes to PCH/7th Street	6 min 8 sec
Survey 2	
PCH/7th Street to Studebaker/Loynes	5 min 47 sec
Studebaker/Loynes to PCH/7th Street	7 min 22 sec

Route 4: PCH/7th Street to Studebaker/Loynes (via 7th Street, Silvera Avenue, Loynes Drive)

	Time
Survey 1	
PCH/7th Street to Studebaker/Loynes	4 min 11 sec
Survey 2	
PCH/7th Street to Studebaker/Loynes	4 min 33 sec

APPENDIX K

RECOMMENDED IMPROVEMENTS LEVEL OF SERVICE WORKSHEETS

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #5 Studebaker Rd/2nd Street

Cycle (sec):	100	Critical Vol./Cap. (X):	0.868
Loss Time (sec):	10 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	86	Level Of Service:	D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Ovl			Include			Ovl		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	0 0	0	2 0	0 0	2	2 0	2 0	0	0 0	3 0	1
Volume Module:												
Base Vol:	0	0	0	263	0	526	1353	483	0	0	615	392
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	0	0	270	0	540	1388	496	0	0	631	402
Added Vol:	0	0	0	5	0	46	42	2	0	0	4	7
PasserByVol:	0	0	0	81	0	0	0	103	0	0	22	25
Initial Fut:	0	0	0	356	0	586	1430	601	0	0	657	434
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:	0	0	0	356	0	586	1430	601	0	0	657	434
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	356	0	586	1430	601	0	0	657	434
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 Vol.:	0	0	0	356	0	586	1430	601	0	0	657	434
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	2.00	0.00	2.00	2.00	2.00	0.00	0.00	3.00	1.00
Final Sat.:	0	0	0	2880	0	3200	2880	3200	0	0	4800	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.12	0.00	0.16	0.50	0.19	0.00	0.00	0.14	0.27
Crit Moves:				****			****					****

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #5 Studebaker Rd/2nd Street

Cycle (sec):	100	Critical Vol./Cap. (X):	0.937
Loss Time (sec):	10 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	123	Level Of Service:	E

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Ovl			Include			Ovl		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	0 0	0	2 0	0 0	2	2 0	2 0	0	0 0	3 0	1
Volume Module:												
Base Vol:	0	0	0	330	0	952	1202	468	0	0	670	433
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	0	0	339	0	977	1233	480	0	0	687	444
Added Vol:	0	0	0	11	0	119	123	12	0	0	11	10
PasserByVol:	0	0	0	26	0	0	0	42	0	0	104	132
Initial Fut:	0	0	0	376	0	1096	1356	534	0	0	802	586
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:	0	0	0	376	0	1096	1356	534	0	0	802	586
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	376	0	1096	1356	534	0	0	802	586
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 Vol.:	0	0	0	376	0	1096	1356	534	0	0	802	586
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	2.00	0.00	2.00	2.00	2.00	0.00	0.00	3.00	1.00
Final Sat.:	0	0	0	2880	0	3200	2880	3200	0	0	4800	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.13	0.00	0.34	0.47	0.17	0.00	0.00	0.17	0.37
Crit Moves:				****			****					****

Long Beach Home Depot Center

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #5 Studebaker Rd/2nd Street

Cycle (sec):	100	Critical Vol./Cap. (X):	0.933
Loss Time (sec):	15 (Y+R = 4 sec)	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	125	Level Of Service:	E

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Protected			Protected			Protected			Protected		
Rights:	Include			Ovl			Include			Ovl		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 0	0 0	0	2 0	0 0	2	2 0	2 0	0	0 0	3 0	1
Volume Module:												
Base Vol:	0	0	0	323	0	1054	1343	302	0	0	420	204
Growth Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Initial Bse:	0	0	0	331	0	1081	1378	310	0	0	431	209
Added Vol:	0	0	0	70	0	202	208	15	0	0	16	66
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	401	0	1283	1586	325	0	0	447	275
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:	0	0	0	401	0	1283	1586	325	0	0	447	275
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0	0	0	401	0	1283	1586	325	0	0	447	275
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 Vol.:	0	0	0	401	0	1283	1586	325	0	0	447	275
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Adjustment:	1.00	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	2.00	0.00	2.00	2.00	2.00	0.00	0.00	3.00	1.00
Final Sat.:	0	0	0	2880	0	3200	2880	3200	0	0	4800	1600
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.00	0.14	0.00	0.40	0.55	0.10	0.00	0.00	0.09	0.17
Crit Moves:				****			****				****	