

Table A-1 Existing AM Peak Operations

Updated: November 6, 2017

2017 Base Year Conditions - AM Peak Hour

LOS	V/C	
D	0.85	0.95
E	0.95	1.00
F	1.00	>1.00

Intersection: 31W & Lehman Ave (Signalized) HCM 2010								
Approach	Movement	Volume	Delay (s)	LOS	V/C	95th Queue (veh)	95th Queue (ft)	Intersection Delay
Northbound	NBL	120	13.0	B	0.27	3.9	100	24.6
	NBTR	442	19.7	B	0.32	8.6	215	
		20						
Eastbound	EBL	16	43.8	D	0.10	0.8	25	Intersection LOS
	EBTR	101	31.0	C	0.50	10.1	255	
		100						
Southbound	SBL	70	12.7	B	0.17	2.3	60	C
	SBTR	438	19.9	B	0.31	8.4	210	
		23						
Westbound	WBL	34	36.9	D	0.17	2.0	50	Max Movement V/C
	WBTR	204	37.6	D	0.77	16.6	415	
		96						

Intersection: 31W & Brockley Way (Unsignalized) HCM 2000								
Approach	Movement	Volume	Delay (s)	LOS	V/C	95th Queue (ft)	95th Queue (ft)	Intersection Delay
Northbound	NBTR	-	0.0	A	0.28	0	0	15.0
		675						
		22						
Eastbound								Intersection LOS
Southbound	SBLT	13	0.9	A	0.28	2	25	B
		616						
		-						
Westbound	WBLR	17	15.0	B	0.27	27	30	Max Movement V/C
		-						
		76						

Intersection: Fairview Ave & Lehman Ave (Signalized) HCM 2010								
Approach	Movement	Volume	Delay (s)	LOS	V/C	95th Queue (veh)	95th Queue (ft)	Intersection Delay
Northbound	NBLTR	297	28.8	C	0.76	14.5	365	21.0
		12						
		24						
Eastbound	EBL	7	15.0	B	0.06	0.3	25	Intersection LOS
	EBTR	410	18.7	B	0.55	11.2	280	
		214						
Southbound	SBLTR	16	19.0	B	0.15	2.9	75	C
		19						
		26						
Westbound	WBL	25	14.0	B	0.11	0.8	25	Max Movement V/C
	WBTR	880	20.1	C	0.70	15.8	395	
		9						

Intersection: Fairview Ave & 31W (Signalized) HCM 2010								
Approach	Movement	Volume	Delay (s)	LOS	V/C	95th Queue (veh)	95th Queue (ft)	Intersection Delay
Northbound	NBL	100	28.8	C	0.32	4.7	120	50.4
	NBT	398	46.0	D	0.68	11.4	285	
	NBR	86	0.0	A	0.00	0.0	25	
Eastbound	EBL	33	28.0	C	0.27	1.7	45	Intersection LOS
	EBT	367	28.6	C	0.39	10.1	255	
	EBR	28	28.7	C	0.39	10.3	260	
Southbound	SBL	237	36.7	D	0.74	12.6	315	D
	SBTR	351	38.3	D	0.50	10.6	265	
		48						
Westbound	WBL	174	21.8	C	0.43	7.1	180	Max Movement V/C
	WBTR	809	75.8	F	1.01	51.5	1290	
		291						

Intersection: Fairview Ave & Greenlawn Ave (Unsignalized) HCM 2000								
Approach	Movement	Volume	Delay (s)	LOS	V/C	95th Queue (ft)	95th Queue (ft)	Intersection Delay
Northbound	NBLTR	3	16.1	C	0.16	15	25	19.2
		0						
		34						
Eastbound	EBLTR	1	0.4	A	0.20	1	25	Intersection LOS
		613						
		2						
Southbound	SBLTR	0	19.2	C	0.02	1	25	C
		0						
		1						
Westbound	WBLTR	30	1.4	A	0.54	4	25	Max Movement V/C
		1546						
		0						

Intersection: Fairview Ave & Hampton Dr (Signalized) HCM 2010								
Approach	Movement	Volume	Delay (s)	LOS	V/C	95th Queue (veh)	95th Queue (ft)	Intersection Delay
Northbound	NBLTR	94	28.3	C	0.53	6.8	170	12.2
		3						
		43						
Eastbound	EBLTR	2	6.5	A	0.34	6.6	165	Intersection LOS
		634						
		39						
Southbound	SBL	2	23.7	C	0.01	0.1	25	B
	SBTR	0	24.1	C	0.08	0.7	25	
		12						
Westbound	WBLTR	21	13.1	B	0.79	20.4	510	Max Movement V/C
		1454						
		5						

Table A-2 Existing PM Peak Operations

Updated: November 6, 2017

2017 Base Year Conditions - PM Peak Hour

LOS	V/C	
D	0.85	0.95
E	0.95	1.00
F	1.00	>1.00

Intersection: 31W & Lehman Ave (Signalized) HCM 2010								
Approach	Movement	Volume	Delay (s)	LOS	V/C	95th Queue (veh)	95th Queue (ft)	Intersection Delay
Northbound	NBL	136	15.6	B	0.35	4.2	105	26.7
	NBTR	654	28.2	C	0.62	14.8	370	
		35						
Eastbound	EBL	55	36.6	D	0.29	3.0	75	Intersection LOS
	EBTR	220	30.3	C	0.69	14.7	370	
		142						
Southbound	SBL	167	17.7	B	0.51	5.5	140	C
	SBTR	568	25.0	C	0.49	11.5	290	
		32						
Westbound	WBL	57	39.1	D	0.33	3.1	80	Max Movement V/C
	WBTR	150	28.4	C	0.63	12.9	325	
		140						

Intersection: 31W & Brockley Way (Unsignalized) HCM 2000								
Approach	Movement	Volume	Delay (s)	LOS	V/C	95th Queue (ft)	95th Queue (ft)	Intersection Delay
Northbound	NBTR	-	0.0	A	0.38	0	0	20.9
		547						
		20						
Eastbound								Intersection LOS
Southbound	SBLT	43	0.8	A	0.42	6	25	C
		939						
		-						
Westbound	WBLR	6	20.9	C	0.25	24	25	Max Movement V/C
		-						
		37						

Intersection: Fairview Ave & Lehman Ave (Signalized) HCM 2010								
Approach	Movement	Volume	Delay (s)	LOS	V/C	95th Queue (veh)	95th Queue (ft)	Intersection Delay
Northbound	NBLTR	295	44.0	D	0.85	20.7	520	32.2
		30						
		70						
Eastbound	EBL	21	14.8	B	0.07	0.6	25	Intersection LOS
		904						
	EBTR	282	37.4	D	0.88	26.3	660	
Southbound	SBLTR	30	23.0	C	0.22	5.0	125	C
		62						
		17						
Westbound	WBL	51	22.6	C	0.34	1.7	45	Max Movement V/C
		616						
	WBTR	12	18.7	B	0.41	10.5	265	

Intersection: Fairview Ave & 31W (Signalized) HCM 2010								
Approach	Movement	Volume	Delay (s)	LOS	V/C	95th Queue (veh)	95th Queue (ft)	Intersection Delay
Northbound	NBL	101	30.3	C	0.48	5.7	145	43.3
		613						
		179						
Eastbound	EBL	77	27.2	A	0.00	0.0	25	Intersection LOS
		850						
	EBT	52.0	D	0.85	25.3	635		
Southbound	EBR	55	51.8	D	0.85	25.8	645	D
		257						
	SBL	38.7	D	0.79	13.4	335		
Westbound	SBTR	595	42.7	D	0.71	19.8	495	Max Movement V/C
		85						
	WBL	166	36.1	D	0.76	8.4	210	
WBTR	441	39.0	D	0.64	17.7	445	0.85	
	215							

Intersection: Fairview Ave & Greenlawn Ave (Unsignalized) HCM 2000								
Approach	Movement	Volume	Delay (s)	LOS	V/C	95th Queue (ft)	95th Queue (ft)	Intersection Delay
Northbound	NBLTR	4	68.2	F	0.55	65	65	84.7
		0						
		49						
Eastbound	EBLTR	1	0.1	A	0.46	0	0	Intersection LOS
		1424						
		7						
Southbound	SBLTR	7	84.7	F	0.35	33	35	F
		0						
		8						
Westbound	WBLTR	28	1.9	A	0.33	10	25	Max Movement V/C
		990						
		1						

Intersection: Fairview Ave & Hampton Dr (Signalized) HCM 2010								
Approach	Movement	Volume	Delay (s)	LOS	V/C	95th Queue (veh)	95th Queue (ft)	Intersection Delay
Northbound	NBLTR	64	29.0	C	0.65	11.9	300	20.0
		26						
		124						
Eastbound	EBLTR	20	23.1	C	0.84	25.6	640	Intersection LOS
		1462						
		51						
Southbound	SBL	32	23.2	C	0.13	1.5	40	B
		35						
	SBTR	21	23.0	C	0.18	3.1	80	
Westbound	WBLTR	15	13.7	B	0.60	12.8	320	Max Movement V/C
		910						
		23						

Table A-3 No Build AM Peak Operations

Updated: November 6, 2017

2040 No Build - AM Peak Hour

LOS	V/C	
D	0.85	0.95
E	0.95	1.00
F	1.00	>1.00

Intersection: 31W & Lehman Ave (Signalized) HCM 2010								
Approach	Movement	Volume	Delay (s)	LOS	V/C	95th Queue (veh)	95th Queue (ft)	Intersection Delay
Northbound	NBL	183	19.0	B	0.52	6.4	160	30.3
	NBTR	691	27.7	C	0.55	15.2	380	
		31						
Eastbound	EBL	24	49.2	D	0.20	1.5	40	Intersection LOS
	EBTR	154	31.6	C	0.59	13.9	350	
Southbound	SBL	107	17.4	B	0.31	3.5	90	C
	SBTR	678	27.7	C	0.54	15.0	375	
		35						
Westbound	WBL	52	40.4	D	0.23	2.9	75	Max Movement V/C
	WBTR	312	42.8	D	0.84	22.4	560	
		147						

Intersection: 31W & Brockley Way (Unsignalized) HCM 2000								
Approach	Movement	Volume	Delay (s)	LOS	V/C	95th Queue (ft)	95th Queue (ft)	Intersection Delay
Northbound	NBTR	-	0.0	A	0.25	0	0	22.5
		1045						
		34						
Southbound	SBLT	20	1.1	A	0.37	3	25	C
		937						
		-						
Westbound	WBLR	26	22.5	C	0.45	53	55	Max Movement V/C
		-						
		116						

Intersection: Fairview Ave & Lehman Ave (Signalized) HCM 2010								
Approach	Movement	Volume	Delay (s)	LOS	V/C	95th Queue (veh)	95th Queue (ft)	Intersection Delay
Northbound	NBLTR	454	119.1	F	1.14	49.1	1230	60.1
		18						
		37						
Eastbound	EBL	13	24.9	C	0.15	0.5	25	Intersection LOS
		643						
	EBTR	327	30.1	C	0.80	21.8	545	
Southbound	SBLTR	29	22.7	C	0.20	4.7	120	E
		35						
		48						
Westbound	WBL	38	19.7	B	0.23	1.3	35	Max Movement V/C
		1384						
	WBTR	17	64.1	F	1.02	57.0	1425	

Intersection: Fairview Ave & 31W (Signalized) HCM 2010								
Approach	Movement	Volume	Delay (s)	LOS	V/C	95th Queue (veh)	95th Queue (ft)	Intersection Delay
Northbound	NBL	155	29.2	C	0.51	7.5	190	155.2
		609						
		144						
Eastbound	EBL	50	34.7	C	0.33	2.4	60	Intersection LOS
		582						
	EBR	43	49.9	D	0.73	17.8	445	
Southbound	SBL	375	73.1	E	0.98	22.9	575	F
		537						
	SBTR	74	38.4	D	0.56	15.9	400	
Westbound	WBL	274	42.6	D	0.81	14.0	350	Max Movement V/C
		1275						
	WBTR	458	347.6	F	1.65	127.5	3190	

Intersection: Fairview Ave & Greenlawn Ave (Unsignalized) HCM 2000								
Approach	Movement	Volume	Delay (s)	LOS	V/C	95th Queue (ft)	95th Queue (ft)	Intersection Delay
Northbound	NBLTR*	37	>100	F	5.05	0	N/A	>100
		0						
		75						
Eastbound	EBLTR	2	0.8	A	0.34	1	25	Intersection LOS
		956						
		29						
Southbound	SBLTR	0	34.2	D	0.02	1	25	F
		0						
		2						
Westbound	WBLTR	82	9.6	A	0.81	13	25	Max Movement V/C
		2395						
		0						

Intersection: Fairview Ave & Hampton Dr (Signalized) HCM 2010								
Approach	Movement	Volume	Delay (s)	LOS	V/C	95th Queue (veh)	95th Queue (ft)	Intersection Delay
Northbound	NBLTR	144	31.0	C	0.63	9.4	235	92.0
		5						
		66						
Eastbound	EBLTR	3	14.2	B	0.68	15.6	390	Intersection LOS
		1009						
		62						
Southbound	SBL	3	24.2	C	0.01	0.1	25	F
		0						
	SBTR	18	24.5	C	0.06	0.7	25	
Westbound	WBLTR	32	136.6	F	1.25	115.0	2875	Max Movement V/C
		2290						
		8						

*delay and 95th queue too large and caused error. V/C ratio indicates LOS F

Table A-4 No Build PM Peak Operations

Updated: November 6, 2017

2040 No Build - PM Peak Hour

LOS	V/C	
D	0.85	0.95
E	0.95	1.00
F	1.00	>1.00

Intersection: 31W & Lehman Ave (Signalized) HCM 2010								
Approach	Movement	Volume	Delay (s)	LOS	V/C	95th Queue (veh)	95th Queue (ft)	Intersection Delay
Northbound	NBL	208	21.6	C	0.62	6.6	165	38.8
	NBTR	1016	42.4	D	0.85	22.8	570	
		54						
Eastbound	EBL	84	43.6	D	0.44	4.3	110	
	EBTR	336	48.9	D	0.92	24.9	625	
Intersection LOS								
Southbound	SBL	255	32.8	C	0.82	9.1	230	D
	SBTR	873	32.7	C	0.70	17.9	450	
Westbound	WBL	87	83.2	F	0.80	6.2	155	Max Movement V/C
	WBTR	229	32.7	C	0.73	17.1	430	
		214						0.92

Intersection: 31W & Brockley Way (Unsignalized) HCM 2000								
Approach	Movement	Volume	Delay (s)	LOS	V/C	95th Queue (ft)	95th Queue (ft)	Intersection Delay
Northbound	NBTR	-	0.0	A	0.54	0	0	40.0
		1302						
	31							
Eastbound								
Intersection LOS								
Southbound	SBLT	66	3.3	A	0.60	10	25	E
		1436						
		-						
Westbound	WBLR	9	40.0	E	0.41	46	50	Max Movement V/C
		-						
		57						0.60

Intersection: Fairview Ave & Lehman Ave (Signalized) HCM 2010								
Approach	Movement	Volume	Delay (s)	LOS	V/C	95th Queue (veh)	95th Queue (ft)	Intersection Delay
Northbound	NBLTR	451	154.0	F	1.23	55.4	1385	99.9
		46						
		107						
Intersection LOS								
Eastbound	EBL	44	16.6	B	0.17	1.2	30	
	EBTR	1398	154.0	F	1.26	86.4	2160	
Southbound	SBLTR	49	24.6	C	0.29	6.9	175	F
		101						
		28						
Westbound	WBL	78	27.0	C	0.53	2.3	60	Max Movement V/C
	WBTR	958	22.7	C	0.62	16.9	425	1.26
		26						

Intersection: Fairview Ave & 31W (Signalized) HCM 2010								
Approach	Movement	Volume	Delay (s)	LOS	V/C	95th Queue (veh)	95th Queue (ft)	Intersection Delay
Northbound	NBL	156	42.3	D	0.74	8.4	210	128.6
		937	80.6	F	0.97	32.7	820	
		288	0.0	A	0.00	0.0	25	
Intersection LOS								
Eastbound	EBL	118	42.1	D	0.64	6.5	165	
	EBT	1319	265.4	F	1.43	91.1	2280	
Southbound	EBR	84	268.2	F	1.44	94.6	2365	
	SBL	407	203.5	F	1.29	50.8	1270	
Westbound	SBTR	910	56.2	E	0.83	31.6	790	F
		132						
Westbound	WBL	259	82.1	F	0.93	20.4	510	Max Movement V/C
	WBTR	694	62.4	E	0.87	33.4	835	1.44
		336						

Intersection: Fairview Ave & Greenlawn Ave (Unsignalized) HCM 2000								
Approach	Movement	Volume	Delay (s)	LOS	V/C	95th Queue (ft)	95th Queue (ft)	Intersection Delay
Northbound	NBLTR*	21	>100	F	8.84	0	N/A	>100
		0						
		95						
Intersection LOS								
Eastbound	EBLTR	2	0.2	A	0.70	0	0	
		2203						
Southbound	SBLTR*	32	>100	F	5.69	0	N/A	F
		11						
Westbound	WBLTR	0	17.6	C	0.48	30	30	Max Movement V/C
		59						
		1531						8.84
		2						

Intersection: Fairview Ave & Hampton Dr (Signalized) HCM 2010								
Approach	Movement	Volume	Delay (s)	LOS	V/C	95th Queue (veh)	95th Queue (ft)	Intersection Delay
Northbound	NBLTR	98	30.2	C	0.68	12.7	320	200.0
		40						
		190						
Intersection LOS								
Eastbound	EBLTR	31	312.4	F	1.64	179.3	4485	
		2279						
Southbound	SBL	79	23.9	C	0.16	1.8	45	
		49						
Westbound	SBTR	54	23.1	C	0.17	3.0	75	
		32						
Westbound	WBLTR	23	158.2	F	1.26	59.9	1500	Max Movement V/C
		1424						
		35						1.64

*delay and 95th queue too large and caused error. V/C ratio indicates LOS F