



APPENDIX M
















BUILD WITH MITIGATION CAPACITY ANALYSIS

INTERSECTION		BUILD CONDITIONS									BUILD WITH MITIGATION CONDITIONS									
		Friday PM Street Peak			Friday Casino Peak			Saturday Casino Peak			Friday PM Street Peak			Friday Casino Peak			Saturday Casino Peak			
		LOS	Delay (Secs)	95% Queue (feet)	LOS	Delay (Secs)	95% Queue (feet)	LOS	Delay (Secs)	95% Queue (feet)	LOS	Delay (Secs)	95% Queue (feet)	LOS	Delay (Secs)	95% Queue (feet)	LOS	Delay (Secs)	95% Queue (feet)	
8th Street & Market Street	Overall	C	22.0	-	C	34.0	-	D	50.0	-	C	23.7	-	B	18.0	-	C	21.1	-	
	EB Thru	A	0.9	10.0	A	0.5	7.5	A	0.6	7.5	C	21.3	247.5	A	6.7	70.0	A	8.0	82.5	
	EB Right	A	3.0	20.0	A	1.6	12.5	A	3.3	25.0	C	23.7	215.0	B	10.8	72.5	C	27.9	157.5	
	WB Thru	B	15.6	177.5	B	14.8	142.5	B	14.5	125.0	B	19.3	185.0	C	20.2	152.5	C	20.5	140.0	
	SB Left/Thru	D	52.9	452.5	F	80.8	647.5	F	118.6	880.0	C	28.6	355.0	C	26.8	397.5	C	28.2	435.0	
	SB Thru/Right	D	45.9	335.0	E	58.7	450.0	F	84.7	585.0	C	27.9	277.5	C	25.2	325.0	C	26.2	352.5	
9th Street & Market Street	Overall	D	51.0	-	C	20.8	-	E	59.7	-	B	15.8	-	B	11.3	-	C	20.3	-	
	EB Thru	A	0.5	5.0	A	0.3	2.5	A	0.2	2.5	A	0.9	10.0	A	0.3	2.5	A	0.2	2.5	
	WB Thru	A	1.5	15.0	A	1.2	12.5	A	0.6	7.5	B	19.0	217.5	A	1.2	12.5	A	0.6	7.5	
	WB Thru/Right	A	1.8	15.0	A	1.3	15.0	A	0.7	7.5	B	19.3	205.0	A	1.3	15.0	A	0.7	7.5	
	NB Left/Thru	F	136.2	872.5	E	57.5	500.0	F	130.0	927.5	C	29.1	272.5	C	27.0	240.0	C	29.1	270.0	
	NB Thru/Right	F	143.5	543	D	52.9	295.0	F	116.0	475.0	-	-	-	-	-	-	-	-	-	
	NB Thru	-	-	-	-	-	-	-	-	-	-	C	27.3	252.5	C	25.8	222.5	C	27.3	247.5
	NB Right	-	-	-	-	-	-	-	-	-	-	D	35.9	212.5	D	39.5	210.0	E	75.5	345.0

HCM 2010 Signalized Intersection Summary

3: 8th St & Market St













9/18/2013

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	774	216	0	511	0	0	0	0	73	714	60
Number	5	2	12	1	6	16				7	4	14
Initial Q (Qb), veh	0	12	0	0	6	0				0	11	0
Ped-Bike Adj(A_pbT)	1.00		0.86	1.00		1.00				1.00		0.65
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	0.90
Adj Sat Flow veh/h/ln	0.0	181.5	189.0	0.0	176.6	0.0				181.4	177.9	181.4
Lanes	0	3	0	0	2	0				0	2	0
Cap, veh/h	0	2080	572	0	1855	0				86	868	77
Arrive On Green	0.00	1.00	1.00	0.00	0.17	0.00				0.11	0.11	0.11
Sat Flow, veh/h	0	3961	1090	0	3533	0				264	2672	237
Grp Volume(v), veh/h	0	753	300	0	544	0				523	0	379
Grp Sat Flow(s),veh/h/ln	0	1815	1421	0	1766	0				1766	0	1407
Q Serve(g_s), s	0.0	0.0	0.0	0.0	8.0	0.0				17.6	0.0	15.8
Cycle Q Clear(g_c), s	0.0	0.0	0.0	0.0	8.0	0.0				17.6	0.0	15.8
Prop In Lane	0.00		0.77	0.00		0.00				0.15		0.17
Lane Grp Cap(c), veh/h	0	1906	746	0	1855	0				574	0	457
V/C Ratio(X)	0.00	0.40	0.40	0.00	0.29	0.00				0.91	0.00	0.83
Avail Cap(c_a), veh/h	0	1906	746	0	1855	0				574	0	457
HCM Platoon Ratio	1.00	2.00	2.00	1.00	0.33	1.00				0.33	0.33	0.33
Upstream Filter(I)	0.00	1.00	1.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	0.0	0.0	0.0	15.1	0.0				25.9	0.0	25.2
Incr Delay (d2), s/veh	0.0	0.6	1.6	0.0	0.4	0.0				21.0	0.0	15.8
Initial Q Delay(d3),s/veh	0.0	0.2	0.3	0.0	0.1	0.0				7.4	0.0	6.1
%ile Back of Q (95%), veh/ln	0.0	0.3	0.7	0.0	7.1	0.0				18.5	0.0	13.4
Lane Grp Delay (d), s/veh	0.0	0.8	2.0	0.0	15.6	0.0				54.4	0.0	47.1
Lane Grp LOS		A	A		B					D		D
Approach Vol, veh/h		1053			544						902	
Approach Delay, s/veh		1.1			15.6						51.3	
Approach LOS		A			B						D	
Timer												
Assigned Phs		2			6							4
Phs Duration (G+Y+Rc), s		36.0			36.0							24.0
Change Period (Y+Rc), s		6.0			6.0							6.0
Max Green Setting (Gmax), s		30.0			30.0							18.0
Max Q Clear Time (g_c+I1), s		2.0			10.0							19.6
Green Ext Time (p_c), s		12.0			10.2							0.0
Intersection Summary												
HCM 2010 Ctrl Delay			22.4									
HCM 2010 LOS			C									
Notes												

HCM 2010 Signalized Intersection Summary

5: 9th St & Market St
















9/18/2013

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑↑			↑↑			↑↑				
Volume (veh/h)	0	1011	0	0	541	56	99	587	232	0	0	0
Number	5	2	12	1	6	16	3	8	18			
Initial Q (Qb), veh	0	9	0	0	9	0	0	15	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.78	1.00		0.68			
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90			
Adj Sat Flow veh/h/ln	0.0	176.6	0.0	0.0	166.1	189.0	181.4	176.8	181.4			
Lanes	0	3	0	0	2	0	0	2	0			
Cap, veh/h	0	2782	0	0	1510	154	95	571	245			
Arrive On Green	0.00	1.00	0.00	0.00	1.00	1.00	0.11	0.11	0.11			
Sat Flow, veh/h	0	5299	0	0	2877	294	292	1757	753			
Grp Volume(v), veh/h	0	1053	0	0	324	298	619	0	337			
Grp Sat Flow(s),veh/h/ln	0	1766	0	0	1661	1510	1753	0	1049			
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	19.5	0.0	19.3			
Cycle Q Clear(g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	19.5	0.0	19.3			
Prop In Lane	0.00		0.00	0.00		0.19	0.17		0.72			
Lane Grp Cap(c), veh/h	0	2782	0	0	872	793	570	0	341			
V/C Ratio(X)	0.00	0.38	0.00	0.00	0.37	0.38	1.09	0.00	0.99			
Avail Cap(c_a), veh/h	0	2782	0	0	872	793	570	0	341			
HCM Platoon Ratio	1.00	2.00	1.00	1.00	2.00	2.00	0.33	0.33	0.33			
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	26.8	0.0	26.7			
Incr Delay (d2), s/veh	0.0	0.4	0.0	0.0	1.2	1.4	63.2	0.0	46.0			
Initial Q Delay(d3),s/veh	0.0	0.1	0.0	0.0	0.3	0.4	47.4	0.0	74.0			
%ile Back of Q (95%), veh/ln	0.0	0.2	0.0	0.0	0.6	0.6	35.2	0.0	21.9			
Lane Grp Delay (d), s/veh	0.0	0.5	0.0	0.0	1.5	1.7	137.4	0.0	146.7			
Lane Grp LOS		A			A	A	F		F			
Approach Vol, veh/h		1053			622			956				
Approach Delay, s/veh		0.5			1.6			140.7				
Approach LOS		A			A			F				
Timer												
Assigned Phs		2			6			8				
Phs Duration (G+Y+Rc), s		36.0			36.0			24.0				
Change Period (Y+Rc), s		6.0			6.0			6.0				
Max Green Setting (Gmax), s		30.0			30.0			18.0				
Max Q Clear Time (g_c+I1), s		2.0			2.0			21.5				
Green Ext Time (p_c), s		12.5			12.5			0.0				
Intersection Summary												
HCM 2010 Ctrl Delay					51.7							
HCM 2010 LOS					D							
Notes												

HCM 2010 Signalized Intersection Summary

3: 8th St & Market St













9/18/2013

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	665	241	0	427	0	0	0	0	77	909	46
Number	5	2	12	1	6	16				7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.83	1.00		1.00				1.00		0.81
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	0.90
Adj Sat Flow veh/h/ln	0.0	183.1	189.0	0.0	176.6	0.0				181.4	179.5	181.4
Lanes	0	3	0	0	2	0				0	2	0
Cap, veh/h	0	1927	674	0	1855	0				77	953	51
Arrive On Green	0.00	1.00	1.00	0.00	0.17	0.00				0.11	0.11	0.11
Sat Flow, veh/h	0	3671	1284	0	3533	0				238	2933	156
Grp Volume(v), veh/h	0	705	258	0	454	0				614	0	484
Grp Sat Flow(s),veh/h/ln	0	1831	1292	0	1766	0				1783	0	1545
Q Serve(g_s), s	0.0	0.0	0.0	0.0	6.7	0.0				19.5	0.0	18.7
Cycle Q Clear(g_c), s	0.0	0.0	0.0	0.0	6.7	0.0				19.5	0.0	18.7
Prop In Lane	0.00		0.99	0.00		0.00				0.13		0.10
Lane Grp Cap(c), veh/h	0	1923	678	0	1855	0				579	0	502
V/C Ratio(X)	0.00	0.37	0.38	0.00	0.24	0.00				1.06	0.00	0.96
Avail Cap(c_a), veh/h	0	1923	678	0	1855	0				579	0	502
HCM Platoon Ratio	1.00	2.00	2.00	1.00	0.33	1.00				0.33	0.33	0.33
Upstream Filter(I)	0.00	1.00	1.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	0.0	0.0	0.0	14.5	0.0				26.8	0.0	26.4
Incr Delay (d2), s/veh	0.0	0.5	1.6	0.0	0.3	0.0				54.0	0.0	32.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile Back of Q (95%), veh/ln	0.0	0.3	0.5	0.0	5.7	0.0				25.9	0.0	18.0
Lane Grp Delay (d), s/veh	0.0	0.5	1.6	0.0	14.8	0.0				80.8	0.0	58.7
Lane Grp LOS		A	A		B					F		E
Approach Vol, veh/h		963			454						1098	
Approach Delay, s/veh		0.8			14.8						71.1	
Approach LOS		A			B						E	
Timer												
Assigned Phs		2			6						4	
Phs Duration (G+Y+Rc), s		36.0			36.0						24.0	
Change Period (Y+Rc), s		6.0			6.0						6.0	
Max Green Setting (Gmax), s		30.0			30.0						18.0	
Max Q Clear Time (g_c+I1), s		2.0			8.7						21.5	
Green Ext Time (p_c), s		10.5			9.3						0.0	
Intersection Summary												
HCM 2010 Ctrl Delay			34.0									
HCM 2010 LOS			C									
Notes												

HCM 2010 Signalized Intersection Summary
















5: 9th St & Market St

9/18/2013

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑↑			↑↑			↑↑				
Volume (veh/h)	0	730	0	0	548	52	71	490	201	0	0	0
Number	5	2	12	1	6	16	3	8	18			
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.85	1.00		0.69			
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90			
Adj Sat Flow veh/h/ln	0.0	173.4	0.0	0.0	174.4	189.0	181.4	177.7	181.4			
Lanes	0	3	0	0	2	0	0	2	0			
Cap, veh/h	0	2731	0	0	1620	152	82	575	255			
Arrive On Green	0.00	1.00	0.00	0.00	1.00	1.00	0.11	0.11	0.11			
Sat Flow, veh/h	0	5202	0	0	3085	289	254	1769	784			
Grp Volume(v), veh/h	0	820	0	0	347	327	556	0	301			
Grp Sat Flow(s),veh/h/ln	0	1734	0	0	1744	1631	1765	0	1042			
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	18.9	0.0	17.1			
Cycle Q Clear(g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	18.9	0.0	17.1			
Prop In Lane	0.00		0.00	0.00		0.18	0.14		0.75			
Lane Grp Cap(c), veh/h	0	2731	0	0	915	856	573	0	339			
V/C Ratio(X)	0.00	0.30	0.00	0.00	0.38	0.38	0.97	0.00	0.89			
Avail Cap(c_a), veh/h	0	2731	0	0	915	856	573	0	339			
HCM Platoon Ratio	1.00	2.00	1.00	1.00	2.00	2.00	0.33	0.33	0.33			
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	26.5	0.0	25.7			
Incr Delay (d2), s/veh	0.0	0.3	0.0	0.0	1.2	1.3	31.0	0.0	27.2			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile Back of Q (95%), veh/ln	0.0	0.1	0.0	0.0	0.5	0.6	20.0	0.0	11.8			
Lane Grp Delay (d), s/veh	0.0	0.3	0.0	0.0	1.2	1.3	57.5	0.0	52.9			
Lane Grp LOS		A			A	A	E		D			
Approach Vol, veh/h		820			674			857				
Approach Delay, s/veh		0.3			1.2			55.9				
Approach LOS		A			A			E				
Timer												
Assigned Phs		2			6			8				
Phs Duration (G+Y+Rc), s		36.0			36.0			24.0				
Change Period (Y+Rc), s		6.0			6.0			6.0				
Max Green Setting (Gmax), s		30.0			30.0			18.0				
Max Q Clear Time (g_c+I1), s		2.0			2.0			20.9				
Green Ext Time (p_c), s		10.7			10.7			0.0				
Intersection Summary												
HCM 2010 Ctrl Delay				20.8								
HCM 2010 LOS				C								
Notes												

HCM 2010 Signalized Intersection Summary
 3: 8th St & Market St













9/18/2013

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	654	289	0	382	0	0	0	0	64	980	61
Number	5	2	12	1	6	16				7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.75	1.00		1.00				1.00		0.83
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	0.90
Adj Sat Flow veh/h/ln	0.0	177.4	189.0	0.0	178.3	0.0				181.4	178.7	181.4
Lanes	0	3	0	0	2	0				0	2	0
Cap, veh/h	0	1863	594	0	1872	0				60	953	62
Arrive On Green	0.00	1.00	1.00	0.00	0.17	0.00				0.11	0.11	0.11
Sat Flow, veh/h	0	3548	1132	0	3566	0				185	2931	191
Grp Volume(v), veh/h	0	711	314	0	415	0				673	0	528
Grp Sat Flow(s),veh/h/ln	0	1774	1132	0	1783	0				1778	0	1529
Q Serve(g_s), s	0.0	0.0	0.0	0.0	6.0	0.0				19.5	0.0	19.5
Cycle Q Clear(g_c), s	0.0	0.0	0.0	0.0	6.0	0.0				19.5	0.0	19.5
Prop In Lane	0.00		1.00	0.00		0.00				0.10		0.12
Lane Grp Cap(c), veh/h	0	1863	594	0	1872	0				578	0	497
V/C Ratio(X)	0.00	0.38	0.53	0.00	0.22	0.00				1.16	0.00	1.06
Avail Cap(c_a), veh/h	0	1863	594	0	1872	0				578	0	497
HCM Platoon Ratio	1.00	2.00	2.00	1.00	0.33	1.00				0.33	0.33	0.33
Upstream Filter(I)	0.00	1.00	1.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	0.0	0.0	0.0	14.3	0.0				26.8	0.0	26.8
Incr Delay (d2), s/veh	0.0	0.6	3.3	0.0	0.3	0.0				91.8	0.0	57.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile Back of Q (95%), veh/ln	0.0	0.3	1.0	0.0	5.0	0.0				35.2	0.0	23.4
Lane Grp Delay (d), s/veh	0.0	0.6	3.3	0.0	14.5	0.0				118.6	0.0	84.7
Lane Grp LOS		A	A		B					F		F
Approach Vol, veh/h		1025			415						1201	
Approach Delay, s/veh		1.4			14.5						103.7	
Approach LOS		A			B						F	
Timer												
Assigned Phs		2			6						4	
Phs Duration (G+Y+Rc), s		36.0			36.0						24.0	
Change Period (Y+Rc), s		6.0			6.0						6.0	
Max Green Setting (Gmax), s		30.0			30.0						18.0	
Max Q Clear Time (g_c+I1), s		2.0			8.0						21.5	
Green Ext Time (p_c), s		11.1			9.9						0.0	
Intersection Summary												
HCM 2010 Ctrl Delay			50.0									
HCM 2010 LOS			D									
Notes												

HCM 2010 Signalized Intersection Summary













5: 9th St & Market St

9/18/2013

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑↑			↑↑			↑↑				
Volume (veh/h)	0	647	0	0	362	45	81	588	282	0	0	0
Number	5	2	12	1	6	16	3	8	18			
Initial Q (Qb), veh	0	5	0	0	4	0	0	4	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.85	1.00		0.68			
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90			
Adj Sat Flow veh/h/ln	0.0	183.5	0.0	0.0	178.5	189.0	181.4	179.8	181.4			
Lanes	0	3	0	0	2	0	0	2	0			
Cap, veh/h	0	2890	0	0	1600	197	74	542	283			
Arrive On Green	0.00	1.00	0.00	0.00	1.00	1.00	0.11	0.11	0.11			
Sat Flow, veh/h	0	5505	0	0	3049	374	228	1667	872			
Grp Volume(v), veh/h	0	688	0	0	223	210	675	0	337			
Grp Sat Flow(s),veh/h/ln	0	1835	0	0	1785	1638	1787	0	980			
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	19.5	0.0	19.5			
Cycle Q Clear(g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	19.5	0.0	19.5			
Prop In Lane	0.00		0.00	0.00		0.23	0.13		0.89			
Lane Grp Cap(c), veh/h	0	2890	0	0	937	860	581	0	319			
V/C Ratio(X)	0.00	0.24	0.00	0.00	0.24	0.24	1.16	0.00	1.06			
Avail Cap(c_a), veh/h	0	2890	0	0	937	860	581	0	319			
HCM Platoon Ratio	1.00	2.00	1.00	1.00	2.00	2.00	0.33	0.33	0.33			
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	26.8	0.0	26.8			
Incr Delay (d2), s/veh	0.0	0.2	0.0	0.0	0.6	0.7	90.9	0.0	66.6			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.1	12.4	0.0	22.6			
%ile Back of Q (95%), veh/ln	0.0	0.1	0.0	0.0	0.3	0.3	37.1	0.0	19.0			
Lane Grp Delay (d), s/veh	0.0	0.2	0.0	0.0	0.6	0.7	130.0	0.0	116.0			
Lane Grp LOS		A			A	A	F		F			
Approach Vol, veh/h		688			433			1012				
Approach Delay, s/veh		0.2			0.7			125.4				
Approach LOS		A			A			F				
Timer												
Assigned Phs		2			6			8				
Phs Duration (G+Y+Rc), s		36.0			36.0			24.0				
Change Period (Y+Rc), s		6.0			6.0			6.0				
Max Green Setting (Gmax), s		30.0			30.0			18.0				
Max Q Clear Time (g_c+I1), s		2.0			2.0			21.5				
Green Ext Time (p_c), s		7.4			7.4			0.0				
Intersection Summary												
HCM 2010 Ctrl Delay					59.7							
HCM 2010 LOS					E							
Notes												

HCM 2010 Signalized Intersection Summary
 3: 8th St & Market St













9/18/2013

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑↑			↑↑						↑↑	
Volume (veh/h)	0	774	216	0	511	0	0	0	0	73	714	60
Number	5	2	12	1	6	16				7	4	14
Initial Q (Qb), veh	0	12	0	0	6	0				0	11	0
Ped-Bike Adj(A_pbT)	1.00		0.83	1.00		1.00				1.00		0.67
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	0.90
Adj Sat Flow veh/h/ln	0.0	181.5	189.0	0.0	176.6	0.0				181.4	177.9	181.4
Lanes	0	3	0	0	2	0				0	2	0
Cap, veh/h	0	1667	458	0	1501	0				113	1141	101
Arrive On Green	0.00	0.14	0.14	0.00	0.14	0.00				0.14	0.14	0.14
Sat Flow, veh/h	0	3923	1077	0	3533	0				265	2686	239
Grp Volume(v), veh/h	0	761	292	0	544	0				520	0	382
Grp Sat Flow(s),veh/h/ln	0	1815	1369	0	1766	0				1766	0	1423
Q Serve(g_s), s	0.0	11.6	11.9	0.0	8.4	0.0				16.8	0.0	15.2
Cycle Q Clear(g_c), s	0.0	11.6	11.9	0.0	8.4	0.0				16.8	0.0	15.2
Prop In Lane	0.00		0.79	0.00		0.00				0.15		0.17
Lane Grp Cap(c), veh/h	0	1543	582	0	1501	0				750	0	605
V/C Ratio(X)	0.00	0.49	0.50	0.00	0.36	0.00				0.69	0.00	0.63
Avail Cap(c_a), veh/h	0	1543	582	0	1501	0				750	0	605
HCM Platoon Ratio	1.00	0.33	0.33	1.00	0.33	1.00				0.33	0.33	0.33
Upstream Filter(I)	0.00	1.00	1.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	19.8	19.9	0.0	18.4	0.0				22.1	0.0	21.4
Incr Delay (d2), s/veh	0.0	1.1	3.1	0.0	0.7	0.0				5.2	0.0	4.9
Initial Q Delay(d3),s/veh	0.0	0.4	0.7	0.0	0.2	0.0				1.3	0.0	1.6
%ile Back of Q (95%), veh/ln	0.0	9.9	8.6	0.0	7.4	0.0				14.2	0.0	11.1
Lane Grp Delay (d), s/veh	0.0	21.3	23.7	0.0	19.3	0.0				28.6	0.0	27.9
Lane Grp LOS		C	C		B					C		C
Approach Vol, veh/h		1053			544						902	
Approach Delay, s/veh		22.0			19.3						28.3	
Approach LOS		C			B						C	
Timer												
Assigned Phs		2			6							4
Phs Duration (G+Y+Rc), s		30.0			30.0						30.0	
Change Period (Y+Rc), s		6.0			6.0						6.0	
Max Green Setting (Gmax), s		24.0			24.0						24.0	
Max Q Clear Time (g_c+I1), s		13.9			10.4						18.8	
Green Ext Time (p_c), s		6.5			8.1						2.4	
Intersection Summary												
HCM 2010 Ctrl Delay			23.7									
HCM 2010 LOS			C									
Notes												

HCM 2010 Signalized Intersection Summary

5: 9th St & Market St
















9/18/2013

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑↑			↑↑			↑↑	↑			
Volume (veh/h)	0	1011	0	0	541	56	99	587	232	0	0	0
Number	5	2	12	1	6	16	3	8	18			
Initial Q (Qb), veh	0	9	0	0	9	0	0	15	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.76	1.00		0.69			
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90			
Adj Sat Flow veh/h/ln	0.0	176.6	0.0	0.0	166.1	189.0	181.4	176.4	177.9			
Lanes	0	3	0	0	2	0	0	2	1			
Cap, veh/h	0	2605	0	0	1411	144	173	1083	337			
Arrive On Green	0.00	0.98	0.00	0.00	0.16	0.16	0.12	0.12	0.12			
Sat Flow, veh/h	0	5299	0	0	2869	293	483	3021	941			
Grp Volume(v), veh/h	0	1053	0	0	325	297	371	343	242			
Grp Sat Flow(s),veh/h/ln	0	1766	0	0	1661	1501	1740	1764	941			
Q Serve(g_s), s	0.0	0.3	0.0	0.0	10.5	10.6	12.1	11.0	14.9			
Cycle Q Clear(g_c), s	0.0	0.3	0.0	0.0	10.5	10.6	12.1	11.0	14.9			
Prop In Lane	0.00		0.00	0.00		0.20	0.28		1.00			
Lane Grp Cap(c), veh/h	0	2605	0	0	817	738	623	632	337			
V/C Ratio(X)	0.00	0.40	0.00	0.00	0.40	0.40	0.60	0.54	0.72			
Avail Cap(c_a), veh/h	0	2605	0	0	817	738	623	632	337			
HCM Platoon Ratio	1.00	2.00	1.00	1.00	0.33	0.33	0.33	0.33	0.33			
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00			
Uniform Delay (d), s/veh	0.0	0.3	0.0	0.0	17.2	17.2	22.3	21.8	23.5			
Incr Delay (d2), s/veh	0.0	0.5	0.0	0.0	1.4	1.6	4.2	3.3	12.4			
Initial Q Delay(d3),s/veh	0.0	0.1	0.0	0.0	0.4	0.4	2.6	2.2	0.0			
%ile Back of Q (95%), veh/ln	0.0	0.4	0.0	0.0	8.7	8.2	10.9	10.1	8.5			
Lane Grp Delay (d), s/veh	0.0	0.9	0.0	0.0	19.0	19.3	29.1	27.3	35.9			
Lane Grp LOS		A			B	B	C	C	D			
Approach Vol, veh/h		1053			622			956				
Approach Delay, s/veh		0.9			19.1			30.2				
Approach LOS		A			B			C				
Timer												
Assigned Phs		2			6			8				
Phs Duration (G+Y+Rc), s		34.0			34.0			26.0				
Change Period (Y+Rc), s		6.0			6.0			6.0				
Max Green Setting (Gmax), s		28.0			28.0			20.0				
Max Q Clear Time (g_c+I1), s		2.3			12.6			16.9				
Green Ext Time (p_c), s		12.0			9.0			1.7				
Intersection Summary												
HCM 2010 Ctrl Delay					15.8							
HCM 2010 LOS					B							
Notes												

HCM 2010 Signalized Intersection Summary

3: 8th St & Market St













9/18/2013

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	665	241	0	427	0	0	0	0	77	909	46
Number	5	2	12	1	6	16				7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.76	1.00		1.00				1.00		0.87
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	0.90
Adj Sat Flow veh/h/ln	0.0	183.1	189.0	0.0	176.6	0.0				181.4	179.5	181.4
Lanes	0	3	0	0	2	0				0	2	0
Cap, veh/h	0	1374	444	0	1325	0				114	1400	75
Arrive On Green	0.00	0.75	0.75	0.00	0.12	0.00				0.16	0.16	0.16
Sat Flow, veh/h	0	3663	1183	0	3533	0				239	2947	157
Grp Volume(v), veh/h	0	707	256	0	454	0				611	0	487
Grp Sat Flow(s),veh/h/ln	0	1831	1183	0	1766	0				1783	0	1560
Q Serve(g_s), s	0.0	4.7	5.7	0.0	7.1	0.0				19.6	0.0	17.6
Cycle Q Clear(g_c), s	0.0	4.7	5.7	0.0	7.1	0.0				19.6	0.0	17.6
Prop In Lane	0.00		1.00	0.00		0.00				0.13		0.10
Lane Grp Cap(c), veh/h	0	1374	444	0	1325	0				847	0	741
V/C Ratio(X)	0.00	0.51	0.58	0.00	0.34	0.00				0.72	0.00	0.66
Avail Cap(c_a), veh/h	0	1374	444	0	1325	0				847	0	741
HCM Platoon Ratio	1.00	2.00	2.00	1.00	0.33	1.00				0.33	0.33	0.33
Upstream Filter(I)	0.00	1.00	1.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	5.3	5.4	0.0	19.5	0.0				21.5	0.0	20.7
Incr Delay (d2), s/veh	0.0	1.4	5.4	0.0	0.7	0.0				5.3	0.0	4.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile Back of Q (95%), veh/ln	0.0	2.8	2.9	0.0	6.1	0.0				15.9	0.0	13.0
Lane Grp Delay (d), s/veh	0.0	6.7	10.8	0.0	20.2	0.0				26.8	0.0	25.2
Lane Grp LOS		A	B		C					C		C
Approach Vol, veh/h		963			454						1098	
Approach Delay, s/veh		7.8			20.2						26.1	
Approach LOS		A			C						C	
Timer												
Assigned Phs		2			6							4
Phs Duration (G+Y+Rc), s		27.0			27.0							33.0
Change Period (Y+Rc), s		6.0			6.0							6.0
Max Green Setting (Gmax), s		21.0			21.0							27.0
Max Q Clear Time (g_c+I1), s		7.7			9.1							21.6
Green Ext Time (p_c), s		7.2			6.7							2.9
Intersection Summary												
HCM 2010 Ctrl Delay			18.0									
HCM 2010 LOS			B									
Notes												

HCM 2010 Signalized Intersection Summary













5: 9th St & Market St

9/18/2013

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑↑			↑↑			↑↑	↑			
Volume (veh/h)	0	730	0	0	548	52	71	490	201	0	0	0
Number	5	2	12	1	6	16	3	8	18			
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.85	1.00		0.69			
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90			
Adj Sat Flow veh/h/ln	0.0	173.4	0.0	0.0	174.4	189.0	181.4	177.7	177.9			
Lanes	0	3	0	0	2	0	0	2	1			
Cap, veh/h	0	2731	0	0	1620	152	139	1009	304			
Arrive On Green	0.00	1.00	0.00	0.00	1.00	1.00	0.11	0.11	0.11			
Sat Flow, veh/h	0	5202	0	0	3085	289	427	3104	935			
Grp Volume(v), veh/h	0	820	0	0	347	327	328	303	226			
Grp Sat Flow(s),veh/h/ln	0	1734	0	0	1744	1631	1755	1777	935			
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	10.7	9.7	14.1			
Cycle Q Clear(g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	10.7	9.7	14.1			
Prop In Lane	0.00		0.00	0.00		0.18	0.24		1.00			
Lane Grp Cap(c), veh/h	0	2731	0	0	915	856	570	577	304			
V/C Ratio(X)	0.00	0.30	0.00	0.00	0.38	0.38	0.58	0.52	0.74			
Avail Cap(c_a), veh/h	0	2731	0	0	915	856	570	577	304			
HCM Platoon Ratio	1.00	2.00	1.00	1.00	2.00	2.00	0.33	0.33	0.33			
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00			
Uniform Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	22.8	22.4	24.4			
Incr Delay (d2), s/veh	0.0	0.3	0.0	0.0	1.2	1.3	4.2	3.4	15.2			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile Back of Q (95%), veh/ln	0.0	0.1	0.0	0.0	0.5	0.6	9.6	8.9	8.4			
Lane Grp Delay (d), s/veh	0.0	0.3	0.0	0.0	1.2	1.3	27.0	25.8	39.5			
Lane Grp LOS		A			A	A	C	C	D			
Approach Vol, veh/h		820			674			857				
Approach Delay, s/veh		0.3			1.2			29.9				
Approach LOS		A			A			C				
Timer												
Assigned Phs		2			6			8				
Phs Duration (G+Y+Rc), s		36.0			36.0			24.0				
Change Period (Y+Rc), s		6.0			6.0			6.0				
Max Green Setting (Gmax), s		30.0			30.0			18.0				
Max Q Clear Time (g_c+I1), s		2.0			2.0			16.1				
Green Ext Time (p_c), s		10.7			10.7			1.0				
Intersection Summary												
HCM 2010 Ctrl Delay					11.3							
HCM 2010 LOS					B							
Notes												













HCM 2010 Signalized Intersection Summary
3: 8th St & Market St

Timing Plan: SAT Casino

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑↑			↑↑						↑↑	
Volume (veh/h)	0	654	289	0	382	0	0	0	0	64	980	61
Number	5	2	12	1	6	16				7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.69	1.00		1.00				1.00		0.89
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	0.90
Adj Sat Flow veh/h/ln	0.0	177.4	189.0	0.0	178.3	0.0				181.4	178.7	181.4
Lanes	0	3	0	0	2	0				0	2	0
Cap, veh/h	0	1271	371	0	1278	0				91	1449	94
Arrive On Green	0.00	0.72	0.72	0.00	0.12	0.00				0.16	0.16	0.16
Sat Flow, veh/h	0	3548	1036	0	3566	0				186	2947	192
Grp Volume(v), veh/h	0	711	314	0	415	0				670	0	531
Grp Sat Flow(s),veh/h/ln	0	1774	1036	0	1783	0				1778	0	1546
Q Serve(g_s), s	0.0	5.7	13.1	0.0	6.4	0.0				21.6	0.0	19.5
Cycle Q Clear(g_c), s	0.0	5.7	13.1	0.0	6.4	0.0				21.6	0.0	19.5
Prop In Lane	0.00		1.00	0.00		0.00				0.10		0.12
Lane Grp Cap(c), veh/h	0	1271	371	0	1278	0				874	0	760
V/C Ratio(X)	0.00	0.56	0.85	0.00	0.32	0.00				0.77	0.00	0.70
Avail Cap(c_a), veh/h	0	1271	371	0	1278	0				874	0	760
HCM Platoon Ratio	1.00	2.00	2.00	1.00	0.33	1.00				0.33	0.33	0.33
Upstream Filter(I)	0.00	1.00	1.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	6.3	7.3	0.0	19.8	0.0				21.8	0.0	20.9
Incr Delay (d2), s/veh	0.0	1.8	20.5	0.0	0.7	0.0				6.4	0.0	5.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile Back of Q (95%), veh/ln	0.0	3.3	6.3	0.0	5.6	0.0				17.4	0.0	14.1
Lane Grp Delay (d), s/veh	0.0	8.0	27.9	0.0	20.5	0.0				28.2	0.0	26.2
Lane Grp LOS		A	C		C					C		C
Approach Vol, veh/h		1025			415						1201	
Approach Delay, s/veh		14.1			20.5						27.3	
Approach LOS		B			C						C	
Timer												
Assigned Phs		2			6						4	
Phs Duration (G+Y+Rc), s		26.0			26.0						34.0	
Change Period (Y+Rc), s		6.0			6.0						6.0	
Max Green Setting (Gmax), s		20.0			20.0						28.0	
Max Q Clear Time (g_c+I1), s		15.1			8.4						23.6	
Green Ext Time (p_c), s		3.5			6.9						2.7	
Intersection Summary												
HCM 2010 Ctrl Delay			21.1									
HCM 2010 LOS			C									
Notes												

HCM 2010 Signalized Intersection Summary
5: 9th St & Market St

Timing Plan: SAT Casino

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑↑			↑↑			↑↑	↑			
Volume (veh/h)	0	647	0	0	362	45	81	588	282	0	0	0
Number	5	2	12	1	6	16	3	8	18			
Initial Q (Qb), veh	0	5	0	0	4	0	0	4	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.85	1.00		0.68			
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90			
Adj Sat Flow veh/h/ln	0.0	183.5	0.0	0.0	178.5	189.0	181.4	179.9	179.6			
Lanes	0	3	0	0	2	0	0	2	1			
Cap, veh/h	0	2890	0	0	1600	197	134	1028	303			
Arrive On Green	0.00	1.00	0.00	0.00	1.00	1.00	0.11	0.11	0.11			
Sat Flow, veh/h	0	5505	0	0	3049	374	412	3164	934			
Grp Volume(v), veh/h	0	688	0	0	223	210	371	341	300			
Grp Sat Flow(s),veh/h/ln	0	1835	0	0	1785	1638	1778	1799	934			
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	12.0	10.8	19.2			
Cycle Q Clear(g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	12.0	10.8	19.2			
Prop In Lane	0.00		0.00	0.00		0.23	0.23		1.00			
Lane Grp Cap(c), veh/h	0	2890	0	0	937	860	578	585	303			
V/C Ratio(X)	0.00	0.24	0.00	0.00	0.24	0.24	0.64	0.58	0.99			
Avail Cap(c_a), veh/h	0	2890	0	0	937	860	578	585	303			
HCM Platoon Ratio	1.00	2.00	1.00	1.00	2.00	2.00	0.33	0.33	0.33			
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00			
Uniform Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	23.4	22.9	26.7			
Incr Delay (d2), s/veh	0.0	0.2	0.0	0.0	0.6	0.7	5.4	4.2	48.8			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.0			
%ile Back of Q (95%), veh/ln	0.0	0.1	0.0	0.0	0.3	0.3	10.8	9.9	13.8			
Lane Grp Delay (d), s/veh	0.0	0.2	0.0	0.0	0.6	0.7	29.1	27.3	75.5			
Lane Grp LOS		A			A	A	C	C	E			
Approach Vol, veh/h		688			433			1012				
Approach Delay, s/veh		0.2			0.7			42.3				
Approach LOS		A			A			D				
Timer												
Assigned Phs		2			6			8				
Phs Duration (G+Y+Rc), s		36.0			36.0			24.0				
Change Period (Y+Rc), s		6.0			6.0			6.0				
Max Green Setting (Gmax), s		30.0			30.0			18.0				
Max Q Clear Time (g_c+I1), s		2.0			2.0			21.2				
Green Ext Time (p_c), s		7.4			7.4			0.0				
Intersection Summary												
HCM 2010 Ctrl Delay				20.3								
HCM 2010 LOS				C								
Notes												