

HCS+: Unsignalized Intersections Release 5.3

TWO-WAY STOP CONTROL SUMMARY

Analyst: RGD
 Agency/Co.: JCE
 Date Performed: 02/04/2010
 Analysis Time Period: SATURDAY PEAK HOUR
 Intersection: STONY STREET & BEAR MOUNTAIN
 Jurisdiction:
 Units: U. S. Customary
 Analysis Year: 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646SATBD4
 East/West Street: STONY STREET
 North/South Street: BEAR MOUNTAIN PKWY EXT.
 Intersection Orientation: NS Study period (hrs): 0.25

Vehicle Volumes and Adjustments

Major Street:	Approach Movement	Northbound				Southbound		
		1 L	2 T	3 R	4 L	5 T	6 R	
Volume		63	54	14	83	303	148	
Peak-Hour Factor, PHF		0.90	0.90	0.90	0.95	0.95	0.95	
Hourly Flow Rate, HFR		70	60	15	87	318	155	
Percent Heavy Vehicles		0	--	--	0	--	--	
Median Type/Storage		Undivided				/		
RT Channelized?								
Lanes		0	2	0	0	2	0	
Configuration		LT		TR	LT		TR	
Upstream Signal?		No				No		

Minor Street:	Approach Movement	Westbound			Eastbound		
		7 L	8 T	9 R	10 L	11 T	12 R
Volume		1	105	38	10	68	16
Peak Hour Factor, PHF		0.91	0.91	0.91	0.90	0.90	0.90
Hourly Flow Rate, HFR		1	115	41	11	75	17
Percent Heavy Vehicles		2	2	2	2	2	2
Percent Grade (%)		-1			0		
Flared Approach: Exists?/Storage		No			/		No /
Lanes		0	1	0	0	1	0
Configuration		LTR			LTR		

Delay, Queue Length, and Level of Service

Approach Movement	NB	SB	Westbound			Eastbound		
	1	4	7	8	9	10	11	12
Lane Config	LT	LT		LTR			LTR	
v (vph)	70	87		157			103	
C(m) (vph)	1099	1537		337			293	
v/c	0.06	0.06		0.47			0.35	
95% queue length	0.20	0.18		2.37			1.53	
Control Delay	8.5	7.5		24.7			23.8	
LOS	A	A		C			C	
Approach Delay				24.7			23.8	
Approach LOS				C			C	

HCS+: Signalized Intersections Release 5.3

Analyst: RGD

Agency: JCE

Date: 02/15/2011

Period: AM PEAK HOUR

Project ID: 1646AMNB4 - WITH NYSDOT IMPROVEMENTS

E/W St: STONY STREET

Inter.: STONY STREET & BEAR MOUNTAIN PK

Area Type: All other areas

Jurisd: 2013 NO-BUILD TRAFFIC VOLUMES

Year :

N/S St: BEAR MOUNTAIN PKWY. EXT.

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	1	0	1	0	1	1	0	1	1	0
LGConfig	LT R			LTR			L TR			L TR		
Volume	93	129	52	2	30	12	22	197	2	132	263	10
Lane Width	12.0 12.0			12.0			12.0 12.0			12.0 12.0		
RTOR Vol	42			10			0			2		

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left	A				NB Left	P		
Thru	A				Thru	P		
Right	A				Right	P		
Peds	X				Peds	X		
WB Left	A				SB Left	P		
Thru	A				Thru	P		
Right	A				Right	P		
Peds	X				Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green	25.0				25.0			
Yellow	4.0				4.0			
All Red	1.0				1.0			

Cycle Length: 60.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios v/c g/C		Lane Group Delay LOS	Approach Delay LOS	
Eastbound							
LT	700	1616	0.35	0.43	11.7 B	11.6	B
R	686	1583	0.02	0.43	9.7 A		
Westbound							
LTR	797	1839	0.05	0.43	9.9 A	9.9	A
Northbound							
L	423	976	0.06	0.43	10.1 B		
TR	822	1897	0.27	0.43	11.7 B	11.6	B
Southbound							
L	496	1144	0.30	0.43	12.6 B		
TR	819	1891	0.37	0.43	12.7 B	12.7	B

Intersection Delay = 12.0 (sec/veh) Intersection LOS = B

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/12/11
 Period: PM PEAK HOUR
 Project ID: 1646PMNB4 - WITH NYSDOT IMPROVEMENTS
 E/W St: STONY STREET

Inter.: STONY STREET & BEAR MOUNTAIN PK
 Area Type: All other areas
 Jurisd: 2013 NO-BUILD TRAFFIC VOLUMES
 Year :
 N/S St: BEAR MOUNTAIN PKWY. EXT.

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	1	0	1	0	1	1	0	1	1	0
LGConfig		LT	R		LTR		L	TR		L	TR	
Volume	16	75	25	2	126	32	57	45	12	246	559	85
Lane Width		12.0	12.0		12.0		12.0	12.0		12.0	12.0	
RTOR Vol			24			23			5			8

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	P		
Thru		A			Thru	P		
Right		A			Right	P		
Peds		X			Peds	X		
WB Left		A			SB Left	P		
Thru		A			Thru	P		
Right		A			Right	P		
Peds		X			Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green	16.0				34.0			
Yellow	4.0				4.0			
All Red	1.0				1.0			

Cycle Length: 60.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios v/c g/C		Lane Group Delay	LOS	Approach Delay	LOS
Eastbound								
LT	465	1744	0.22	0.27	17.4	B	17.3	B
R	422	1583	0.00	0.27	16.1	B		
Westbound								
LTR	493	1850	0.31	0.27	17.9	B	17.9	B
Northbound								
L	278	491	0.23	0.57	8.4	A		
TR	1055	1861	0.05	0.57	5.9	A	7.2	A
Southbound								
L	774	1366	0.35	0.57	8.3	A		
TR	1057	1865	0.67	0.57	12.4	B	11.3	B

Intersection Delay = 12.1 (sec/veh) Intersection LOS = B

HCS+: Signalized Intersections Release 5.3

Analyst: RGD

Inter.: STONY STREET & BEAR MOUNTAIN

Agency: JCE

Area Type: All other areas

Date: 2/13/11

Jurisd: 2013 NO-BUILD TRAFFIC VOLUMES

Period: SATURDAY PEAK HOUR

Year :

Project ID: 1646SATNB4 - WITH NYSDOT IMPROVEMENTS

E/W St: STONY STREET

N/S St: BEAR MOUNTAIN PKWY. EXT.

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	1	0	1	0	1	1	0	1	1	0
LGConfig		LT	R		LTR		L	TR		L	TR	
Volume	10	61	16	1	105	30	63	54	14	83	303	148
Lane Width		12.0	12.0		12.0		12.0	12.0		12.0	12.0	
RTOR Vol			15			0			5			18

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	P		
Thru		A			Thru	P		
Right		A			Right	P		
Peds		X			Peds	X		
WB Left		A			SB Left	P		
Thru		A			Thru	P		
Right		A			Right	P		
Peds		X			Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green		21.0				29.0		
Yellow		4.0				4.0		
All Red		1.0				1.0		

Cycle Length: 60.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

LT	627	1791	0.13	0.35	13.4	B	13.3	B
R	554	1583	0.00	0.35	12.7	B		

Westbound

LTR	635	1814	0.23	0.35	14.0	B	14.0	B
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Northbound

L	372	769	0.19	0.48	9.9	A		
TR	899	1859	0.08	0.48	8.5	A	9.2	A

Southbound

L	653	1352	0.13	0.48	9.0	A		
TR	877	1814	0.52	0.48	12.9	B	12.3	B

Intersection Delay = 12.2 (sec/veh) Intersection LOS = B

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMBD4 - WITH NYSDOT IMPROVEMENTS
 E/W St: STONY STREET

Inter.: STONY STREET & BEAR MOUNTAIN PK
 Area Type: All other areas
 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Year :
 N/S St: BEAR MOUNTAIN PKWY. EXT.

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	1	0	1	0	1	1	0	1	1	0
LGConfig		LT	R		LTR		L	TR		L	TR	
Volume	93	130	52	2	30	12	22	197	2	132	263	10
Lane Width		12.0	12.0		12.0		12.0	12.0		12.0	12.0	
RTOR Vol			42			10			0			2

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	P		
Thru		A			Thru	P		
Right		A			Right	P		
Peds		X			Peds	X		
WB Left		A			SB Left	P		
Thru		A			Thru	P		
Right		A			Right	P		
Peds		X			Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green		25.0				25.0		
Yellow		4.0				4.0		
All Red		1.0				1.0		

Cycle Length: 60.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
LT	701	1617	0.35	0.43	11.7	B	11.6	B
R	686	1583	0.02	0.43	9.7	A		
Westbound								
LTR	797	1839	0.05	0.43	9.9	A	9.9	A
Northbound								
L	423	976	0.06	0.43	10.1	B		
TR	822	1897	0.27	0.43	11.7	B	11.6	B
Southbound								
L	496	1144	0.30	0.43	12.6	B		
TR	819	1891	0.37	0.43	12.7	B	12.7	B

Intersection Delay = 12.0 (sec/veh) Intersection LOS = B

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/12/11
 Period: PM PEAK HOUR
 Project ID: 1646PMBD4 - WITH NYSDOT IMPROVEMENTS
 E/W St: STONY STREET

Inter.: STONY STREET & BEAR MOUNTAIN PK
 Area Type: All other areas
 Jurisd: 2013 BUILD TRAFFIC VOLUMES - I
 Year :
 N/S St: BEAR MOUNTAIN PKWY. EXT.

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	1	0	1	0	1	1	0	1	1	0
LGConfig		LT	R		LTR		L	TR		L	TR	
Volume	16	79	25	2	126	36	57	45	12	246	559	85
Lane Width		12.0	12.0		12.0		12.0	12.0		12.0	12.0	
RTOR Vol			24			23			5			8

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	P		
Thru		A			Thru	P		
Right		A			Right	P		
Peds		X			Peds	X		
WB Left		A			SB Left	P		
Thru		A			Thru	P		
Right		A			Right	P		
Peds		X			Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green		16.0				34.0		
Yellow		4.0				4.0		
All Red		1.0				1.0		

Cycle Length: 60.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
LT	466	1748	0.23	0.27	17.4	B	17.4	B
R	422	1583	0.00	0.27	16.1	B		
Westbound								
LTR	492	1844	0.32	0.27	18.0	B	18.0	B
Northbound								
L	278	491	0.23	0.57	8.4	A		
TR	1055	1861	0.05	0.57	5.9	A	7.2	A
Southbound								
L	774	1366	0.35	0.57	8.3	A		
TR	1057	1865	0.67	0.57	12.4	B	11.3	B

Intersection Delay = 12.2 (sec/veh) Intersection LOS = B

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: STONY STREET & BEAR MOUNTAIN
 Agency: JCE Area Type: All other areas
 Date: 2/13/11 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Period: SATURDAY PEAK HOUR Year :
 Project ID: 1646SATBD4 - WITH NYSDOT IMPROVEMENTS
 E/W St: STONY STREET N/S St: BEAR MOUNTAIN PKWY. EXT.

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	1	0	1	0	1	1	0	1	1	0
LGConfig	LT R			LTR			L TR			L TR		
Volume	10	68	16	1	105	38	63	54	14	83	303	148
Lane Width	12.0		12.0	12.0			12.0		12.0	12.0		12.0
RTOR Vol	15			34			5			18		

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left	A				NB Left	P		
Thru	A				Thru	P		
Right	A				Right	P		
Peds	X				Peds	X		
WB Left	A				SB Left	P		
Thru	A				Thru	P		
Right	A				Right	P		
Peds	X				Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green	21.0				29.0			
Yellow	4.0				4.0			
All Red	1.0				1.0			

Cycle Length: 60.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
LT	631	1802	0.14	0.35	13.4	B	13.4	B
R	554	1583	0.00	0.35	12.7	B		
Westbound								
LTR	651	1861	0.18	0.35	13.7	B	13.7	B
Northbound								
L	372	769	0.19	0.48	9.9	A		
TR	899	1859	0.08	0.48	8.5	A	9.2	A
Southbound								
L	653	1352	0.13	0.48	9.0	A		
TR	877	1814	0.52	0.48	12.9	B	12.3	B

Intersection Delay = 12.1 (sec/veh) Intersection LOS = B

HCS+: Unsignalized Intersections Release 5.3

TWO-WAY STOP CONTROL SUMMARY

Analyst: RGD
 Agency/Co.: JCE
 Date Performed: 02/04/2010
 Analysis Time Period: SATURDAY PEAK HOUR
 Intersection: STONY STREET & OLD CROMPOND RD
 Jurisdiction:
 Units: U. S. Customary
 Analysis Year: 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646SATBD5
 East/West Street: STONY STREET
 North/South Street: OLD CROMPOND ROAD
 Intersection Orientation: NS Study period (hrs): 0.25

Vehicle Volumes and Adjustments

Major Street:	Approach Movement	Northbound				Southbound	
		1 L	2 T	3 R	4 L	5 T	6 R
Volume		103	0	93			
Peak-Hour Factor, PHF		0.91	1.00	0.91			
Hourly Flow Rate, HFR		113	0	102			
Percent Heavy Vehicles		2	--	--		--	--
Median Type/Storage		Undivided				/	
RT Channelized?							
Lanes		0	0	0			
Configuration		LTRLR					
Upstream Signal?		Yes				No	

Minor Street:	Approach Movement	Westbound				Eastbound	
		7 L	8 T	9 R	10 L	11 T	12 R
Volume		158	58			60	211
Peak Hour Factor, PHF		0.58	0.58			0.88	0.88
Hourly Flow Rate, HFR		272	100			68	239
Percent Heavy Vehicles		2	2			2	2
Percent Grade (%)			-1			1	
Flared Approach: Exists?/Storage					/		No /
Lanes		0	1			1	0
Configuration		LT					TR

Delay, Queue Length, and Level of Service

Approach Movement	NB	SB	Westbound			Eastbound				
			1	4	7	8	9	10	11	12
Lane Config	LTR			LT						TR
v (vph)	113		372					307		
C(m) (vph)	1623									
v/c	0.07									
95% queue length	0.22									
Control Delay	7.4									
LOS	A									
Approach Delay										
Approach LOS										

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMEX6
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & STONY STREET
 Area Type: All other areas
 Jurisd:
 Year : 2010 EXISTING TRAFFIC VOLUMES
 N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	1	1	1	1	1	0	1	1
LGConfig	L	TR		L	T	R	L	T	R		LT	R
Volume	10	1174	161	85	442	9	81	8	180	68	67	97
Lane Width	12.0	12.0		12.0	14.0	12.0	12.0	12.0	12.0		12.0	11.0
RTOR Vol			11			4			29			86

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A	P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		10.0	40.0			15.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 80.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/c	Delay	LOS	Delay	LOS
Eastbound								
L	594	1770	0.02	0.70	4.9	A		
TR	1756	3427	0.82	0.51	20.8	C	20.7	C
Westbound								
L	336	1770	0.27	0.70	10.2	B		
T	987	1925	0.49	0.51	14.4	B	13.7	B
R	811	1583	0.01	0.51	9.6	A		
Northbound								
L	214	1070	0.42	0.20	28.4	C		
T	373	1863	0.02	0.20	25.7	C	21.1	C
R	613	1583	0.27	0.39	16.9	B		
Southbound								
LT	315	1575	0.48	0.20	28.7	C	27.7	C
R	583	1505	0.02	0.39	15.1	B		

Intersection Delay = 19.5 (sec/veh) Intersection LOS = B

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 10/14/2009
 Period: PM PEAK HOUR
 Project ID: 1646PMEX6
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & STONY STREET
 Area Type: All other areas
 Jurisd:
 Year : 2010 EXISTING TRAFFIC VOLUMES
 N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	1	1	1	1	1	0	1	1
LGConfig	L	TR		L	T	R	L	T	R		LT	R
Volume	21	866	182	178	932	30	213	52	252	46	116	135
Lane Width	12.0	12.0		12.0	14.0	12.0	12.0	12.0	12.0		12.0	11.0
RTOR Vol			21			14			64			63

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A	P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		10.0	40.0			15.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 80.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/c	Delay	LOS	Delay	LOS
Eastbound								
L	336	1770	0.07	0.70	14.3	B		
TR	1746	3407	0.65	0.51	16.1	B	16.0	B
Westbound								
L	395	1770	0.47	0.70	8.1	A		
T	987	1925	0.98	0.51	44.2	D	38.0	D
R	811	1583	0.02	0.51	9.7	A		
Northbound								
L	190	948	1.25	0.20	179.4	F		
T	373	1863	0.16	0.20	26.5	C	94.6	F
R	613	1583	0.34	0.39	17.4	B		
Southbound								
LT	337	1687	0.53	0.20	29.5	C	25.3	C
R	583	1505	0.14	0.39	15.9	B		
Intersection Delay = 38.0 (sec/veh)					Intersection LOS = D			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD

Inter.: ROUTE 202/35 & STONY STREET

Agency: JCE

Area Type: All other areas

Date: 1/18/2011

Jurisd:

Period: SATURDAY PEAK HOUR

Year : 2010 EXISTING TRAFFIC VOLUMES

Project ID: 1646SATEX6

E/W St: ROUTE 202/35

N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	1	1	1	1	1	0	1	1
LGConfig	L	TR		L	T	R	L	T	R		LT	R
Volume	23	981	210	225	729	18	208	50	309	35	119	38
Lane Width	12.0	12.0		12.0	14.0	12.0	12.0	12.0	12.0		12.0	11.0
RTOR Vol			22			8			45			35

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A	P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		10.0	40.0			15.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 80.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	353	1770	0.07	0.70	10.3	B		
TR	1745	3405	0.74	0.51	18.1	B	17.9	B
Westbound								
L	352	1770	0.71	0.70	21.5	C		
T	987	1925	0.82	0.51	24.0	C	23.3	C
R	811	1583	0.01	0.51	9.6	A		
Northbound								
L	197	985	1.17	0.20	150.4	F		
T	373	1863	0.15	0.20	26.5	C	71.9	E
R	613	1583	0.48	0.39	18.6	B		
Southbound								
LT	347	1734	0.49	0.20	28.8	C	28.6	C
R	583	1505	0.01	0.39	15.0	B		
Intersection Delay = 30.3 (sec/veh)					Intersection LOS = C			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMNB6
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & STONY STREET
 Area Type: All other areas
 Jurisd:
 Year : 2013 NO-BUILD TRAFFIC VOLUMES
 N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	1	1	1	1	1	0	1	1
LGConfig	L	TR		L	T	R	L	T	R		LT	R
Volume	29	1261	171	90	486	15	86	8	191	107	71	111
Lane Width	12.0	12.0		12.0	14.0	12.0	12.0	12.0	12.0		12.0	11.0
RTOR Vol			12			7			21			93

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A	P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		10.0	40.0			15.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 80.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group Delay LOS	Approach Delay LOS	
			v/c	g/C			
Eastbound							
L	557	1770	0.06	0.70	5.4	A	
TR	1756	3427	0.88	0.51	24.0	C	23.6 C
Westbound							
L	336	1770	0.29	0.70	11.7	B	
T	987	1925	0.53	0.51	15.2	B	14.6 B
R	811	1583	0.01	0.51	9.6	A	
Northbound							
L	175	876	0.55	0.20	30.9	C	
T	373	1863	0.02	0.20	25.7	C	21.9 C
R	613	1583	0.31	0.39	17.1	B	
Southbound							
LT	305	1525	0.65	0.20	33.2	C	31.6 C
R	583	1505	0.03	0.39	15.2	B	
Intersection Delay = 21.9 (sec/veh) Intersection LOS = C							

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/04/2011
 Period: PM PEAK HOUR
 Project ID: 1646PMNB6
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & STONY STREET
 Area Type: All other areas
 Jurisd:
 Year : 2013 NO-BUILD TRAFFIC VOLUMES
 N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	1	1	1	1	1	0	1	1
LGConfig	L	TR		L	T	R	L	T	R		LT	R
Volume	75	939	193	189	1049	53	226	55	267	176	123	160
Lane Width	12.0	12.0		12.0	14.0	12.0	12.0	12.0	12.0		12.0	11.0
RTOR Vol			19			30			42			37

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A	P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		10.0	45.0			20.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	299	1770	0.27	0.68	17.4	B		
TR	1741	3407	0.70	0.51	19.2	B	19.1	B
Westbound								
L	338	1770	0.58	0.68	13.1	B		
T	984	1925	1.11	0.51	86.1	F	73.8	E
R	809	1583	0.03	0.51	11.0	B		
Northbound								
L	107	459	2.35	0.23	668.1	F		
T	435	1863	0.14	0.23	27.4	C	310.0	F
R	633	1583	0.39	0.40	19.4	B		
Southbound								
LT	344	1475	0.97	0.23	73.8	E	57.5	E
R	604	1511	0.23	0.40	17.9	B		
Intersection Delay = 88.5 (sec/veh)					Intersection LOS = F			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/11/11
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATNB6
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & STONY STREET
 Area Type: All other areas
 Jurisd:
 Year : 2013 NO-BUILD TRAFFIC VOLUMES
 N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	1	1	1	1	1	0	1	1
LGConfig	L	TR		L	T	R	L	T	R		LT	R
Volume	74	1063	223	239	829	40	220	53	328	156	126	57
Lane Width	12.0	12.0		12.0	14.0	12.0	12.0	12.0	12.0		12.0	11.0
RTOR Vol			22			23			33			54

Duration 0.25 Area Type: All other areas
 Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A	P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		10.0	40.0			15.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 80.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	336	1770	0.24	0.70	14.8	B		
TR	1746	3406	0.80	0.51	19.9	B	19.6	B
Westbound								
L	336	1770	0.79	0.70	31.2	C		
T	987	1925	0.93	0.51	34.7	C	33.5	C
R	811	1583	0.02	0.51	9.7	A		
Northbound								
L	92	460	2.65	0.20	805.7	F		
T	373	1863	0.16	0.20	26.5	C	324.1	F
R	613	1583	0.54	0.39	19.4	B		
Southbound								
LT	299	1497	1.05	0.20	96.8	F	96.0	F
R	583	1505	0.01	0.39	15.0	B		
Intersection Delay = 83.9 (sec/veh)					Intersection LOS = F			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMBD6
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & STONY STREET
 Area Type: All other areas
 Jurisd:
 Year : 2013 BUILD TRAFFIC VOLUMES
 N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	1	1	1	1	1	0	1	1
LGConfig	L	TR		L	T	R	L	T	R		LT	R
Volume	29	1271	171	90	490	15	86	8	191	108	71	111
Lane Width	12.0	12.0		12.0	14.0	12.0	12.0	12.0	12.0		12.0	11.0
RTOR Vol			12			7			20			93

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru					Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A			SB Left	A		
Thru					Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		10.0	40.0			15.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 80.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group Delay LOS	Approach Delay LOS	
			v/c	g/C			
Eastbound							
L	553	1770	0.06	0.70	5.4	A	
TR	1757	3428	0.89	0.51	24.3	C	24.0 C
Westbound							
L	336	1770	0.29	0.70	11.8	B	
T	987	1925	0.54	0.51	15.3	B	14.7 B
R	811	1583	0.01	0.51	9.6	A	
Northbound							
L	174	872	0.55	0.20	31.0	C	
T	373	1863	0.02	0.20	25.7	C	21.9 C
R	613	1583	0.31	0.39	17.2	B	
Southbound							
LT	305	1524	0.65	0.20	33.3	C	31.7 C
R	583	1505	0.03	0.39	15.2	B	
Intersection Delay = 22.2 (sec/veh) Intersection LOS = C							

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/04/2011
 Period: PM PEAK HOUR
 Project ID: 1646PMBD6
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & STONY STREET
 Area Type: All other areas
 Jurisd:
 Year : 2013 BUILD TRAFFIC VOLUMES
 N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	1	1	1	1	1	0	1	1
LGConfig	L	TR		L	T	R	L	T	R		LT	R
Volume	75	992	193	189	1102	57	226	55	267	181	123	160
Lane Width	12.0	12.0		12.0	14.0	12.0	12.0	12.0	12.0		12.0	11.0
RTOR Vol			19			30			42			37

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A	P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		10.0	45.0			20.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/c	Delay	LOS	Delay	LOS
Eastbound								
L	299	1770	0.27	0.68	17.4	B		
TR	1743	3410	0.73	0.51	20.0+	C	19.9	B
Westbound								
L	323	1770	0.61	0.68	15.6	B		
T	984	1925	1.17	0.51	108.1	F	92.9	F
R	809	1583	0.03	0.51	11.0	B		
Northbound								
L	103	443	2.44	0.23	709.5	F		
T	435	1863	0.14	0.23	27.4	C	328.5	F
R	633	1583	0.39	0.40	19.4	B		
Southbound								
LT	343	1472	0.99	0.23	78.8	E	61.2	E
R	604	1511	0.23	0.40	17.9	B		
Intersection Delay = 97.6 (sec/veh)					Intersection LOS = F			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/04/2010
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATBD6
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & STONY STREET
 Area Type: All other areas
 Jurisd:
 Year : 2013 BUILD TRAFFIC VOLUMES
 N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	1	1	1	1	1	0	1	1
LGConfig	L	TR		L	T	R	L	T	R		LT	R
Volume	74	1148	223	239	915	48	220	53	328	164	126	57
Lane Width	12.0	12.0		12.0	14.0	12.0	12.0	12.0	12.0		12.0	11.0
RTOR Vol			20			27			26			47

Duration 0.25 Area Type: All other areas
 Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A	P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		10.0	40.0			15.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 80.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	336	1770	0.24	0.70	14.9	B		
TR	1748	3410	0.85	0.51	22.2	C	21.8	C
Westbound								
L	336	1770	0.79	0.70	31.7	C		
T	987	1925	1.03	0.51	56.2	E	50.4	D
R	811	1583	0.03	0.51	9.7	A		
Northbound								
L	92	460	2.65	0.20	805.7	F		
T	373	1863	0.16	0.20	26.5	C	320.4	F
R	613	1583	0.55	0.39	19.7	B		
Southbound								
LT	298	1490	1.08	0.20	107.3	F	104.2	F
R	583	1505	0.02	0.39	15.1	B		
Intersection Delay = 88.3 (sec/veh)					Intersection LOS = F			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & STONY STREET
 Agency: JCE Area Type: All other areas
 Date: 2/12/11 Jurisd:
 Period: PM PEAK HOUR Year : 2013 NO-BUILD TRAFFIC VOLUMES
 Project ID: 1646PMNB6 - WITH TIMING IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	1	1	1	1	1	0	1	1
LGConfig	L	TR		L	T	R	L	T	R		LT	R
Volume	75	939	193	189	1049	53	226	55	267	176	123	160
Lane Width	12.0	12.0		12.0	14.0	12.0	12.0	12.0	12.0		12.0	11.0
RTOR Vol			18			36			23			19

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A	P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		8.0	39.0			28.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/c	Delay	LOS	Delay	LOS
Eastbound								
L	260	1770	0.32	0.59	17.5	B		
TR	1514	3407	0.81	0.44	26.4	C	25.9	C
Westbound								
L	260	1770	0.76	0.59	29.7	C		
T	856	1925	1.28	0.44	158.6	F	137.2	F
R	704	1583	0.03	0.44	14.1	B		
Northbound								
L	220	683	1.14	0.32	134.4	F		
T	600	1863	0.10	0.32	21.4	C	67.3	E
R	739	1583	0.37	0.47	15.6	B		
Southbound								
LT	475	1475	0.70	0.32	30.6	C	25.4	C
R	710	1521	0.22	0.47	14.3	B		
Intersection Delay = 71.9 (sec/veh)					Intersection LOS = E			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD

Inter.: ROUTE 202/35 & STONY STREET

Agency: JCE

Area Type: All other areas

Date: 2/13/2011

Jurisd:

Period: SATURDAY PEAK HOUR

Year : 2013 NO-BUILD TRAFFIC VOLUMES

Project ID: 1646SATNB6 - WITH IMPROVEMENTS

E/W St: ROUTE 202/35

N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	1	1	1	1	1	0	1	1
LGConfig	L	TR		L	T	R	L	T	R		LT	R
Volume	74	1063	223	239	829	40	220	53	328	156	126	57
Lane Width	12.0	12.0		12.0	14.0	12.0	12.0	12.0	12.0		12.0	11.0
RTOR Vol			17			34			11			22

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A	P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		8.0	38.0			29.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	260	1770	0.31	0.58	17.5	B		
TR	1475	3404	0.95	0.43	38.0	D	36.9	D
Westbound								
L	260	1770	1.02	0.58	87.6	F		
T	834	1925	1.10	0.43	97.9	F	95.1	F
R	686	1583	0.01	0.43	14.5	B		
Northbound								
L	250	750	0.98	0.33	82.0	F		
T	621	1863	0.10	0.33	20.7	C	41.0	D
R	756	1583	0.47	0.48	15.9	B		
Southbound								
LT	499	1497	0.63	0.33	27.2	C	25.6	C
R	727	1522	0.05	0.48	12.6	B		
Intersection Delay = 55.5 (sec/veh)					Intersection LOS = E			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & STONY STREET
 Agency: JCE Area Type: All other areas
 Date: 2/12/11 Jurisd:
 Period: PM PEAK HOUR Year : 2013 BUILD TRAFFIC VOLUMES - I
 Project ID: 1646PMBD6 - WITH TIMING IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	1	1	1	1	1	0	1	1
LGConfig	L	TR		L	T	R	L	T	R		LT	R
Volume	75	992	193	189	1102	57	226	55	267	181	123	160
Lane Width	12.0	12.0		12.0	14.0	12.0	12.0	12.0	12.0		12.0	11.0
RTOR Vol			18			36			23			19

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A	P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		8.0	39.0			28.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	260	1770	0.32	0.59	17.5	B		
TR	1516	3410	0.85	0.44	28.2	C	27.6	C
Westbound								
L	260	1770	0.76	0.59	30.2	C		
T	856	1925	1.34	0.44	174.5	F	151.1	F
R	704	1583	0.03	0.44	14.2	B		
Northbound								
L	216	671	1.16	0.32	142.4	F		
T	600	1863	0.10	0.32	21.4	C	70.8	E
R	739	1583	0.37	0.47	15.6	B		
Southbound								
LT	474	1472	0.71	0.32	31.2	C	25.8	C
R	710	1521	0.22	0.47	14.3	B		
Intersection Delay = 78.3 (sec/veh)					Intersection LOS = E			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & STONY STREET
 Agency: JCE Area Type: All other areas
 Date: 2/13/2011 Jurisd:
 Period: SATURDAY PEAK HOUR Year : 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646SATBD6 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	1	1	1	1	1	0	1	1
LGConfig	L	TR		L	T	R	L	T	R		LT	R
Volume	74	1148	223	239	915	48	220	53	328	164	126	57
Lane Width	12.0	12.0		12.0	14.0	12.0	12.0	12.0	12.0		12.0	11.0
RTOR Vol			17			34			11			22

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A	P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		8.0	38.0			29.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	260	1770	0.31	0.58	17.5	B		
TR	1477	3409	1.01	0.43	50.7	D	49.0	D
Westbound								
L	260	1770	1.02	0.58	88.1	F		
T	834	1925	1.22	0.43	135.1	F	123.9	F
R	686	1583	0.02	0.43	14.7	B		
Northbound								
L	243	729	1.00	0.33	88.8	F		
T	621	1863	0.10	0.33	20.7	C	43.5	D
R	756	1583	0.47	0.48	15.9	B		
Southbound								
LT	497	1490	0.65	0.33	27.8	C	26.2	C
R	727	1522	0.05	0.48	12.6	B		
Intersection Delay = 71.0 (sec/veh) Intersection LOS = E								

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & STONY STREET
 Agency: JCE Area Type: All other areas
 Date: 02/15/2011 Jurisd:
 Period: AM PEAK HOUR Year : 2013 NO-BUILD TRAFFIC VOLUMES
 Project ID: 1646AMNB6 - WITH NYSDOT IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	1	1	2	0	1	1	1	0	1	1
LGConfig	L	T	R	L	TR		L	T	R		LT	R
Volume	29	1261	171	90	486	15	86	8	191	107	71	111
Lane Width	12.0	12.0	12.0	12.0	14.0		12.0	12.0	12.0		12.0	11.0
RTOR Vol			47			2			20			93

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A	P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		4.9	42.3			12.5		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 74.7 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	605	1770	0.05	0.71	3.4	A		
T	2016	3478	0.68	0.58	12.8	B	12.1	B
R	900	1552	0.15	0.58	7.6	A		
Westbound								
L	270	1770	0.36	0.71	7.6	A		
TR	2131	3676	0.25	0.58	8.0	A	8.0	A
Northbound								
L	155	858	0.62	0.18	33.7	C		
T	337	1863	0.03	0.18	25.2	C	24.7	C
R	496	1583	0.38	0.31	20.2	C		
Southbound								
LT	276	1525	0.72	0.18	36.3	D	34.6	C
R	476	1518	0.04	0.31	17.9	B		
Intersection Delay = 14.3 (sec/veh)					Intersection LOS = B			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & STONY STREET
 Agency: JCE Area Type: All other areas
 Date: 2/12/11 Jurisd:
 Period: PM PEAK HOUR Year : 2013 NO-BUILD TRAFFIC VOLUMES
 Project ID: 1646PMNB6 - WITH NYSDOT IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	1	1	2	0	1	1	1	0	1	1
LGConfig	L	T	R	L	TR		L	T	R		LT	R
Volume	75	939	193	189	1049	53	226	55	267	176	123	160
Lane Width	12.0	12.0	12.0	12.0	14.0		12.0	12.0	12.0		12.0	11.0
RTOR Vol			67			4			23			19

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A	A	
Thru			P		Thru	A	A	
Right			P		Right	A	A	
Peds					Peds		X	
WB Left		A	P		SB Left		A	
Thru			P		Thru		A	
Right			P		Right		A	
Peds					Peds		X	
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		8.0	34.0			6.0	22.0	
Yellow		4.0	4.0			4.0	4.0	
All Red		1.0	1.0			1.0	1.0	

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	260	1770	0.32	0.53	15.4	B		
T	1353	3478	0.76	0.39	17.9	B	17.9	B
R	604	1552	0.23	0.39	19.3	B		
Westbound								
L	291	1770	0.68	0.53	19.4	B		
TR	1426	3667	0.80	0.39	29.3	C	27.8	C
Northbound								
L	273	1761	0.92	0.38	63.2	E		
T	704	1863	0.09	0.38	18.0	B	34.9	C
R	827	1583	0.33	0.52	12.5	B		
Southbound								
LT	377	1475	0.88	0.26	52.6	D	41.6	D
R	611	1527	0.26	0.40	18.1	B		
Intersection Delay = 27.4 (sec/veh)					Intersection LOS = C			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & STONY STREET
 Agency: JCE Area Type: All other areas
 Date: 2/13/11 Jurisd:
 Period: SATURDAY PEAK HOUR Year: 2013 NO-BUILD TRAFFIC VOLUMES
 Project ID: 1646SATNB6 - WITH NYSDOT IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	1	1	2	0	1	1	1	0	1	1
LGConfig	L	T	R	L	TR		L	T	R		LT	R
Volume	74	1063	223	239	829	40	220	53	328	156	126	57
Lane Width	12.0	12.0	12.0	12.0	14.0		12.0	12.0	12.0		12.0	11.0
RTOR Vol			67			5			6			24

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A	A	
Thru			P		Thru	A	A	
Right			P		Right	A	A	
Peds					Peds	X	X	
WB Left		A	P		SB Left		A	
Thru			P		Thru		A	
Right			P		Right		A	
Peds					Peds		X	
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		8.0	34.0			7.0	21.0	
Yellow		4.0	4.0			4.0	4.0	
All Red		1.0	1.0			1.0	1.0	

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	286	1770	0.28	0.53	13.4	B		
T	1353	3478	0.86	0.39	28.7	C	25.8	C
R	604	1552	0.28	0.39	11.8	B		
Westbound								
L	260	1770	1.02	0.53	85.7	F		
TR	1426	3668	0.67	0.39	25.3	C	38.4	D
Northbound								
L	293	1760	0.83	0.38	45.5	D		
T	704	1863	0.08	0.38	18.0	B	25.7	C
R	827	1583	0.43	0.52	13.4	B		
Southbound								
LT	366	1497	0.86	0.24	49.4	D	46.0	D
R	593	1526	0.06	0.39	17.2	B		
Intersection Delay = 32.0 (sec/veh)					Intersection LOS = C			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD

Inter.: ROUTE 202/35 & STONY STREET

Agency: JCE

Area Type: All other areas

Date: 02/15/2011

Jurisd:

Period: AM PEAK HOUR

Year : 2013 BUILD TRAFFIC VOLUMES

Project ID: 1646AMBD6 - WITH NYSDOT IMPROVEMENTS

E/W St: ROUTE 202/35

N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	1	1	2	0	1	1	1	0	1	1
LGConfig	L	T	R	L	TR		L	T	R		LT	R
Volume	29	1271	171	90	490	15	86	8	191	108	71	111
Lane Width	12.0	12.0	12.0	12.0	14.0		12.0	12.0	12.0		12.0	11.0
RTOR Vol			47			2			20			93

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A	P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		4.9	42.3			12.5		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 74.7 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/c	Delay	LOS	Delay	LOS
Eastbound								
L	602	1770	0.05	0.71	3.4	A		
T	2016	3478	0.69	0.58	12.9	B	12.2	B
R	900	1552	0.15	0.58	7.6	A		
Westbound								
L	267	1770	0.37	0.71	7.7	A		
TR	2131	3676	0.26	0.58	8.0	A	8.0	A
Northbound								
L	154	854	0.62	0.18	34.0	C		
T	337	1863	0.03	0.18	25.2	C	24.8	C
R	496	1583	0.38	0.31	20.2	C		
Southbound								
LT	275	1524	0.72	0.18	36.8	D	35.0+	D
R	476	1518	0.04	0.31	17.9	B		

Intersection Delay = 14.4 (sec/veh) Intersection LOS = B

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & STONY STREET
 Agency: JCE Area Type: All other areas
 Date: 2/12/11 Jurisd:
 Period: PM PEAK HOUR Year : 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646PMBD6 - WITH NYSDOT IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	1	1	2	0	1	1	1	0	1	1
LGConfig	L	T	R	L	TR		L	T	R		LT	R
Volume	75	992	193	189	1102	57	226	55	267	181	123	160
Lane Width	12.0	12.0	12.0	12.0	14.0		12.0	12.0	12.0		12.0	11.0
RTOR Vol			67			4			23			19

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A	A	
Thru			P		Thru	A	A	
Right			P		Right	A	A	
Peds					Peds		X	
WB Left		A	P		SB Left		A	
Thru			P		Thru		A	
Right			P		Right		A	
Peds					Peds		X	
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		8.0	34.0			6.0	22.0	
Yellow		4.0	4.0			4.0	4.0	
All Red		1.0	1.0			1.0	1.0	

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	260	1770	0.32	0.53	16.0	B		
T	1353	3478	0.81	0.39	19.3	B	19.1	B
R	604	1552	0.23	0.39	19.3	B		
Westbound								
L	272	1770	0.72	0.53	23.3	C		
TR	1426	3666	0.84	0.39	31.3	C	30.2	C
Northbound								
L	269	1761	0.93	0.38	66.8	E		
T	704	1863	0.09	0.38	18.0	B	36.5	D
R	827	1583	0.33	0.52	12.5	B		
Southbound								
LT	378	1472	0.89	0.26	54.4	D	42.9	D
R	611	1527	0.26	0.40	18.1	B		
Intersection Delay = 29.0 (sec/veh)					Intersection LOS = C			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD

Inter.: ROUTE 202/35 & STONY STREET

Agency: JCE

Area Type: All other areas

Date: 2/13/11

Jurisd:

Period: SATURDAY PEAK HOUR

Year : 2013 BUILD TRAFFIC VOLUMES

Project ID: 1646SATBD6 - WITH NYSDOT IMPROVEMENTS

E/W St: ROUTE 202/35

N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	1	1	2	0	1	1	1	0	1	1
LGConfig	L	T	R	L	TR		L	T	R		LT	R
Volume	74	1148	223	239	915	48	220	53	328	164	126	57
Lane Width	12.0	12.0	12.0	12.0	14.0		12.0	12.0	12.0		12.0	11.0
RTOR Vol			67			5			6			24

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A	A	
Thru			P		Thru	A	A	
Right			P		Right	A	A	
Peds					Peds	X	X	
WB Left		A	P		SB Left		A	
Thru			P		Thru		A	
Right			P		Right		A	
Peds					Peds		X	
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		8.0	34.0			7.0	21.0	
Yellow		4.0	4.0			4.0	4.0	
All Red		1.0	1.0			1.0	1.0	

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	260	1770	0.31	0.53	14.5	B		
T	1353	3478	0.93	0.39	34.3	C	30.7	C
R	604	1552	0.28	0.39	11.8	B		
Westbound								
L	260	1770	1.02	0.53	86.4	F		
TR	1426	3666	0.75	0.39	27.3	C	39.1	D
Northbound								
L	286	1760	0.85	0.38	49.0	D		
T	704	1863	0.08	0.38	18.0	B	27.0	C
R	827	1583	0.43	0.52	13.4	B		
Southbound								
LT	364	1490	0.88	0.24	54.0	D	50.2	D
R	593	1526	0.06	0.39	17.2	B		
Intersection Delay = 34.8 (sec/veh)					Intersection LOS = C			

TWO-WAY STOP CONTROL SUMMARY

Analyst: RGD
 Agency/Co.: JCE
 Date Performed: 02/04/2011
 Analysis Time Period: PM PEAK HOUR
 Intersection: ROUTE 202/35 & OLD CROMPOND RD
 Jurisdiction:
 Units: U. S. Customary
 Analysis Year: 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646PMBD7
 East/West Street: ROUTE 202/35
 North/South Street: OLD CROMPOND ROAD
 Intersection Orientation: EW Study period (hrs): 0.25

Vehicle Volumes and Adjustments

Major Street:	Approach Movement	Eastbound				Westbound			
		1 L	2 T	3 R	4 L	5 T	6 R		
Volume		0	1140			1409	27		
Peak-Hour Factor, PHF		0.85	0.85			0.93	0.93		
Hourly Flow Rate, HFR		0	1341			1515	29		
Percent Heavy Vehicles		2	--	--		--	--		
Median Type/Storage		Undivided				/			
RT Channelized?									
Lanes		0	2			1	0		
Configuration		LT T				TR			
Upstream Signal?		No				Yes			

Minor Street:	Approach Movement	Northbound				Southbound			
		7 L	8 T	9 R	10 L	11 T	12 R		
Volume					1		1		
Peak Hour Factor, PHF					0.80		0.80		
Hourly Flow Rate, HFR					1		1		
Percent Heavy Vehicles					2		2		
Percent Grade (%)		0					10		
Flared Approach: Exists?/Storage						/	No	/	
Lanes					0		0		
Configuration						LR			

Delay, Queue Length, and Level of Service

Approach Movement	EB	WB	Northbound			Southbound		
			4	7	8	9	10	11
Lane Config	1							
	LT							LR
v (vph)	0						2	
C(m) (vph)	196						10	
v/c	0.00						0.20	
95% queue length	0.00						0.50	
Control Delay	23.4						439.6	
LOS	C						F	
Approach Delay							439.6	
Approach LOS							F	

HCS+: Unsignalized Intersections Release 5.3

TWO-WAY STOP CONTROL SUMMARY

Analyst: RGD
 Agency/Co.: JCE
 Date Performed: 02/04/2010
 Analysis Time Period: SATURDAY PEAK HOUR
 Intersection: ROUTE 202/35 & OLD CROMPOND RD
 Jurisdiction:
 Units: U. S. Customary
 Analysis Year: 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646SATBD7
 East/West Street: ROUTE 202/35
 North/South Street: OLD CROMPOND ROAD
 Intersection Orientation: EW Study period (hrs): 0.25

Vehicle Volumes and Adjustments

Major Street:	Approach Movement	Eastbound				Westbound			
		1 L	2 T	3 R	4 L	5 T	6 R		
Volume		1	1638			1256	20		
Peak-Hour Factor, PHF		0.97	0.97			0.85	0.85		
Hourly Flow Rate, HFR		1	1688			1477	23		
Percent Heavy Vehicles		2	--	--		--	--		
Median Type/Storage		Undivided				/			
RT Channelized?									
Lanes		0	2			1	0		
Configuration		LT T				TR			
Upstream Signal?		No				Yes			

Minor Street:	Approach Movement	Northbound				Southbound			
		7 L	8 T	9 R	10 L	11 T	12 R		
Volume					2		2		
Peak Hour Factor, PHF					0.50		0.50		
Hourly Flow Rate, HFR					4		4		
Percent Heavy Vehicles					2		2		
Percent Grade (%)		0					10		
Flared Approach: Exists?/Storage						/	No	/	
Lanes					0		0		
Configuration						LR			

Delay, Queue Length, and Level of Service

Approach Movement	EB	WB	Northbound			Southbound		
			7	8	9	10	11	12
Lane Config	LT							LR
v (vph)	1						8	
C(m) (vph)	247						7	
v/c	0.00						1.14	
95% queue length	0.01						1.80	
Control Delay	19.6						1067	
LOS	C						F	
Approach Delay							1067	
Approach LOS							F	

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMEX8
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & MOHANSIC AVENUE
 Area Type: All other areas
 Jurisd:
 Year : 2010 EXISTING TRAFFIC VOLUMES
 N/S St: MOHANSIC AVENUE

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	2	0	1	1	0	0	0	0	0	0	0
LGConfig	TR			L	T		LR					
Volume	1418 7			44	522		15	35				
Lane Width	12.0			12.0	12.0		12.0					
RTOR Vol	0						0					

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left	A		
Thru		P			Thru			
Right		P			Right	A		
Peds					Peds			
WB Left	A	P			SB Left			
Thru	A	P			Thru			
Right					Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	15.0	35.0			25.0			
Yellow	4.0	4.0			4.0			
All Red	1.0	1.0			1.0			

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

TR 1335 3337 1.16 0.40 107.8 F 107.8 F

Westbound

L 398 1770 0.12 0.62 14.1 B
 T 1137 1827 0.50 0.62 9.6 A 10.0- A

Northbound

LR 471 1696 0.12 0.28 24.4 C 24.4 C

Southbound

Intersection Delay = 78.6 (sec/veh) Intersection LOS = E

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 1/17/2011
 Period: PM PEAK HOUR
 Project ID: 1646PMEX8
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & MOHANSIC AVENUE
 Area Type: All other areas
 Jurisd:
 Year : 2010 EXISTING TRAFFIC VOLUMES
 N/S St: MOHANSIC AVENUE

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	2	0	1	1	0	0	0	0	0	0	0
LGConfig	TR			L	T		LR					
Volume	1142 23			156	1125		29	92				
Lane Width	12.0			12.0	12.0		12.0					
RTOR Vol	1						0					

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left	A		
Thru		P			Thru			
Right		P			Right	A		
Peds					Peds			
WB Left	A	P			SB Left			
Thru	P	P			Thru			
Right					Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	15.0	35.0			25.0			
Yellow	4.0	4.0			4.0			
All Red	1.0	1.0			1.0			

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

TR 1332 3331 0.95 0.40 41.4 D 41.4 D

Westbound

L 398 1770 0.43 0.62 16.0 B
 T 1137 1827 1.08 0.62 41.2 D 38.1 D

Northbound

LR 468 1685 0.29 0.28 25.8 C 25.8 C

Southbound

Intersection Delay = 39.0 (sec/veh) Intersection LOS = D

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 1/18/2011
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATEX8
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & MOHANSIC AVENUE
 Area Type: All other areas
 Jurisd:
 Year : 2010 EXISTING TRAFFIC VOLUMES
 N/S St: MOHANSIC AVNEUE

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	2	0	1	1	0	0	0	0	0	0	0
LGConfig	TR			L	T		LR					
Volume	1302 24			112	950		29	79				
Lane Width	12.0			12.0	12.0		12.0					
RTOR Vol	1						0					

Duration 0.25 Area Type: All other areas
 Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left	A		
Thru		P			Thru			
Right		P			Right	A		
Peds					Peds			
WB Left	A	P			SB Left			
Thru	A	P			Thru			
Right					Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	15.0	35.0			25.0			
Yellow	4.0	4.0			4.0			
All Red	1.0	1.0			1.0			

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

TR 1333 3332 1.08 0.40 76.4 E 76.4 E

Westbound

L 398 1770 0.31 0.62 16.6 B
 T 1137 1827 0.92 0.62 16.5 B 16.5 B

Northbound

LR 469 1689 0.26 0.28 25.6 C 25.6 C

Southbound

Intersection Delay = 48.5 (sec/veh) Intersection LOS = D

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMNB8
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & MOHANSIC AVENUE
 Area Type: All other areas
 Jurisd:
 Year : 2013 NO-BUILD TRAFFIC VOLUMES
 N/S St: MOHANSIC AVENUE

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	2	0	1	1	0	0	0	0	0	0	0
LGConfig	TR			L T			LR					
Volume	1553 9			47 606			17 37					
Lane Width	12.0			12.0 12.0			12.0					
RTOR Vol	0						0					

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left	A		
Thru		P			Thru			
Right		P			Right	A		
Peds					Peds			
WB Left	A	P			SB Left			
Thru	P	P			Thru			
Right					Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	15.0	35.0			25.0			
Yellow	4.0	4.0			4.0			
All Red	1.0	1.0			1.0			

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

TR 1335 3337 1.27 0.40 155.4 F 155.4 F

Westbound

L 398 1770 0.13 0.62 14.1 B
 T 1137 1827 0.58 0.62 11.8 B 12.0 B

Northbound

LR 472 1698 0.13 0.28 24.5 C 24.5 C

Southbound

Intersection Delay = 110.9 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/11/11
 Period: PM PEAK HOUR
 Project ID: 1646PMNB8
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & MOHANSIC AVENUE
 Area Type: All other areas
 Jurisd:
 Year : 2013 NO-BUILD TRAFFIC VOLUMES
 N/S St: MOHANSIC AVENUE

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	2	0	1	1	0	0	0	0	0	0	0
LGConfig	TR			L	T		LR					
Volume	1356 27			165	1345		34	98				
Lane Width	12.0			12.0	12.0		12.0					
RTOR Vol	1						0					

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left	A		
Thru		P			Thru			
Right		P			Right	A		
Peds					Peds			
WB Left	A	P			SB Left			
Thru	P	P			Thru			
Right					Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	15.0	35.0			25.0			
Yellow	4.0	4.0			4.0			
All Red	1.0	1.0			1.0			

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

TR 1332 3331 1.13 0.40 94.6 F 94.6 F

Westbound

L 398 1770 0.45 0.62 17.4 B
 T 1137 1827 1.29 0.62 141.0 F 127.5 F

Northbound

LR 469 1688 0.31 0.28 26.1 C 26.1 C

Southbound

Intersection Delay = 108.0 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/11/11
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATNB8
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & MOHANSIC AVENUE
 Area Type: All other areas
 Jurisd:
 Year : 2013 NO-BUILD TRAFFIC VOLUMES
 N/S St: MOHANSIC AVENUE

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	2	0	1	1	0	0	0	0	0	0	0
LGConfig	TR			L	T		LR					
Volume	1519 28			119	1149		34		84			
Lane Width	12.0			12.0	12.0		12.0					
RTOR Vol	1						0					

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left	A		
Thru		P			Thru			
Right		P			Right	A		
Peds					Peds			
WB Left	A	P			SB Left			
Thru	P	P			Thru			
Right					Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	15.0	35.0			25.0			
Yellow	4.0	4.0			4.0			
All Red	1.0	1.0			1.0			

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

TR 1333 3332 1.26 0.40 150.4 F 150.4 F

Westbound

L 398 1770 0.33 0.62 17.0 B
 T 1137 1827 1.11 0.62 63.5 E 59.1 E

Northbound

LR 470 1693 0.28 0.28 25.8 C 25.8 C

Southbound

Intersection Delay = 105.6 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMBD8
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & COSTCO ACCESS
 Area Type: All other areas
 Jurisd:
 Year : 2013 BUILD TRAFFIC VOLUMES
 N/S St: MOHANSIC AVENUE/COSTCO

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	1	1	0	1	0	1	1	0
LGConfig	L	TR		L	T	R		LTR		L	TR	
Volume	16	1544	9	47	594	44	17	0	37	18	0	7
Lane Width	12.0	12.0		12.0	12.0	12.0		12.0		12.0	12.0	
RTOR Vol			0			6			0			0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P			NB Left	A		
Thru		P			Thru	A		
Right		P			Right	A		
Peds					Peds			
WB Left		A	P		SB Left	A		
Thru		A	P		Thru	A		
Right		A	P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		15.0	35.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	300	750	0.06	0.40	16.9	B		
TR	1335	3337	1.26	0.40	152.1	F	150.8	F
Westbound								
L	398	1770	0.13	0.62	14.1	B		
T	1137	1827	0.57	0.62	10.5	B	10.7	B
R	985	1583	0.04	0.62	9.5	A		
Northbound								
LTR	467	1618	0.12	0.29	23.7	C	23.7	C
Southbound								
L	390	1351	0.05	0.29	23.2	C		
TR	457	1583	0.02	0.29	22.9	C	23.1	C

Intersection Delay = 105.6 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/04/2011
 Period: PM PEAK HOUR
 Project ID: 1646PMBD8
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & COSTCO ACCESS
 Area Type: All other areas
 Jurisd:
 Year : 2013 BUILD TRAFFIC VOLUMES
 N/S St: MOHANSIC AVENUE/COSTCO ACCESS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	1	1	0	1	0	1	1	0
LGConfig	L	TR		L	T	R		LTR		L	TR	
Volume	82	1332	2	165	1289	236	34	2	98	204	2	114
Lane Width	12.0	12.0		12.0	12.0	12.0		12.0		12.0	12.0	
RTOR Vol			2			28			0			92

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A			SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green		15.0	35.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	382	1699	0.23	0.62	14.7	B		
TR	1336	3339	1.08	0.40	77.7	E	74.0	E
Westbound								
L	398	1770	0.45	0.62	14.5	B		
T	731	1827	1.92	0.40	439.0	F	344.1	F
R	633	1583	0.36	0.40	17.0	B		
Northbound								
LTR	460	1592	0.32	0.29	25.5	C	25.5	C
Southbound								
L	337	1166	0.66	0.29	32.8	C		
TR	464	1605	0.06	0.29	23.2	C	31.8	C

Intersection Delay = 199.9 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/04/2010
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATBD8
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & COSTCO ACCESS
 Area Type: All other areas
 Jurisd:
 Year : 2013 BUILD TRAFFIC VOLUMES
 N/S St: COSTCO ACCESS/MOHANSIC AVENUE

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	1	1	0	1	0	1	1	0
LGConfig	L	TR		L	T	R		LTR		L	TR	
Volume	132	1480	28	119	1059	381	34	4	84	330	4	183
Lane Width	12.0	12.0		12.0	12.0	12.0		12.0		12.0	12.0	
RTOR Vol			2			63			78			142

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A			SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green		15.0	35.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	382	1699	0.37	0.62	15.5	B		
TR	1333	3332	1.23	0.40	136.4	F	126.7	F
Westbound								
L	398	1770	0.32	0.62	14.7	B		
T	731	1827	1.57	0.40	283.3	F	205.7	F
R	633	1583	0.55	0.40	18.9	B		
Northbound								
LTR	436	1510	0.11	0.29	23.6	C	23.6	C
Southbound								
L	391	1352	0.92	0.29	57.3	E		
TR	464	1606	0.11	0.29	23.6	C	53.2	D

Intersection Delay = 150.9 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & COSTCO ACCESS
 Agency: JCE Area Type: All other areas
 Date: 02/15/2011 Jurisd:
 Period: AM PEAK HOUR Year : 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646AMBD8 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: MOHANSIC AVENUE/COSTCO

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	2	0	0	1	1	1	1	0
LGConfig	L	TR		L	TR			LT	R	L	LTR	
Volume	16	1544	9	47	594	44	17	0	37	18	0	7
Lane Width	12.0	12.0		12.0	12.0			12.0	12.0	12.0	12.0	
RTOR Vol			0			2			0			0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P			NB Left	A		
Thru		P			Thru	A		
Right		P			Right	A		
Peds					Peds			
WB Left	A	P			SB Left	A		
Thru	A	P			Thru	A		
Right	A	P			Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	5.0	45.0			10.0	10.0		
Yellow	4.0	4.0			4.0	4.0		
All Red	1.0	1.0			1.0	1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	356	696	0.05	0.51	11.3	B		
TR	1706	3337	0.99	0.51	41.2	D	40.9	D
Westbound								
L	201	1770	0.25	0.62	18.7	B		
TR	2145	3448	0.32	0.62	1.1	A	2.4	A
Northbound								
LT	221	1810	0.08	0.12	35.2	D	35.8	D
R	197	1615	0.20	0.12	36.1	D		
Southbound								
L	216	1770	0.09	0.12	35.3	D		
LTR	193	1583	0.04	0.12	34.9	C	35.2	D

Intersection Delay = 29.4 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & COSTCO
 Agency: JCE Area Type: All other areas
 Date: 2/13/11 Jurisd:
 Period: SATURDAY PEAK HOUR Year : 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646SATBD8 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: MOHANSIC AVENUE/COSTCO

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	2	0	1	1	0	1	1	0
LGConfig	L	TR		L	TR		L	TR		L	TR	
Volume	132	1480	28	119	1059	381	34	4	84	221	109	183
Lane Width	12.0	12.0		12.0	12.0		16.0	12.0		12.0	12.0	
RTOR Vol			1			33			61			147

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru			P		Thru		A	
Right			P		Right		A	
Peds					Peds	X		
WB Left		A			SB Left	A		
Thru			P		Thru		A	
Right			P		Right		A	
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green		8.0	39.0			15.0	8.0	
Yellow		4.0	4.0			4.0	4.0	
All Red		1.0	1.0			1.0	1.0	

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	251	1708	0.57	0.59	20.1	C		
TR	1540	3381	1.06	0.46	51.9	D	49.4	D
Westbound								
L	260	1770	0.50	0.59	19.2	B		
TR	1544	3390	0.99	0.46	31.5	C	30.5	C
Northbound								
L	498	2046	0.07	0.32	23.6	C		
TR	147	1654	0.20	0.09	38.7	D	30.2	C
Southbound								
L	295	1770	0.81	0.17	52.0	D		
TR	299	1793	0.53	0.17	36.0	D	45.7	D

Intersection Delay = 40.7 (sec/veh) Intersection LOS = D

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMEX9
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & TACONIC SB RAMP
 Area Type: All other areas
 Jurisd: 2010 EXISTING TRAFFIC VOLUMES
 Year :
 N/S St: TACONIC STATE PARKWAY SB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	1	0	2	0	0	0	0	1	0	1
LGConfig		T	R	DefL	T					L		R
Volume		753	700	315	526					90		40
Lane Width		12.0	12.0	12.0	11.0					12.0		12.0
RTOR Vol			0									40

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					EB Left			
Thru			P		Thru			
Right			P		Right			
Peds					Peds			
WB Left		A	P		SB Left	A		
Thru		A	P		Thru			
Right					Right	A		
Peds					Peds			
NB Right					EB Right	A		
SB Right					WB Right			
Green		15.0	35.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

T	705	1763	1.16	0.40	94.2	F	52.7	D
R	1125	1558	0.68	0.72	8.2	A		

Westbound

DefL	405	1805	0.84	0.62	32.8	C		
T	1099	1766	0.52	0.62	1.4	A	13.1	B

Northbound

Southbound

L	511	1769	0.20	0.29	24.2	C	24.2	C
R	457	1583	0.00	0.29	22.8	C		

Intersection Delay = 37.7 (sec/veh) Intersection LOS = D

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 1/17/2011
 Period: PM PEAK HOUR
 Project ID: 1646PMEX9
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & TSP SB RAMPS
 Area Type: All other areas
 Jurisd: 2009 EXISTING TRAFFIC VOLUMES
 Year :
 N/S St: TACONIC PKWY SB ON/OFF RAMP

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	1	0	2	0	0	0	0	1	0	1
LGConfig		T	R		LT					L		R
Volume		956	278	80	1252					44		29
Lane Width		12.0	12.0		11.0					12.0		12.0
RTOR Vol			0									0

Duration 0.25 Area Type: All other areas
 Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
WB Left	A	P			SB Left	A		
Thru	A	P			Thru			
Right					Right	A		
Peds					Peds			
NB Right					EB Right	A		
SB Right					WB Right			
Green	15.0	35.0			25.0			
Yellow	4.0	4.0			4.0			
All Red	1.0	1.0			1.0			

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

T	705	1763	1.47	0.40	247.0	F	192.4	F
R	1125	1558	0.27	0.72	4.4	A		

Westbound

LT	1340	3360	1.08	0.62	46.6	D	46.6	D
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Northbound

Southbound

L	511	1769	0.10	0.29	23.4	C	23.4	C
R	457	1583	0.07	0.29	23.2	C		

Intersection Delay = 114.0 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 1/18/2011
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATEX9
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & TSP SB RAMPS
 Area Type: All other areas
 Jurisd: 2010 EXISTING TRAFFIC VOLUMES
 Year :
 N/S St: TACONIC STATE PKWY SB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	1	0	2	0	0	0	0	1	0	1
LGConfig		T	R		LT					L		R
Volume		1041	340	108	1022					62		40
Lane Width		12.0	12.0		11.0					12.0		12.0
RTOR Vol			0									0

Duration 0.25 Area Type: All other areas
 Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
WB Left	A	P			SB Left	A		
Thru	A	P			Thru			
Right					Right	A		
Peds					Peds			
NB Right					EB Right	A		
SB Right					WB Right			
Green	15.0	35.0			25.0			
Yellow	4.0	4.0			4.0			
All Red	1.0	1.0			1.0			

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group Delay LOS	Approach Delay LOS	
			v/c	g/C			
Eastbound							
T	705	1763	1.57	0.40	288.7	F	218.7 F
R	1125	1558	0.32	0.72	4.6	A	
Westbound							
LT	1354	3359	0.86	0.62	7.7	A	7.7 A
Northbound							
Southbound							
L	511	1769	0.14	0.29	23.7	C	23.6 C
R	457	1583	0.10	0.29	23.4	C	
Intersection Delay = 121.2 (sec/veh)				Intersection LOS = F			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMNB9
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & TACONIC SB RAMP
 Area Type: All other areas
 Jurisd: 2013 NO-BUILD TRAFFIC VOLUMES
 Year :
 N/S St: TACONIC STATE PARKWAY SB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	1	0	2	0	0	0	0	1	0	1
LGConfig		T	R	DefL	T					L		R
Volume		831	760	334	599					95		54
Lane Width		12.0	12.0	12.0	11.0					12.0		12.0
RTOR Vol			0									40

Duration 0.25 Area Type: All other areas
 Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
WB Left	A	P			SB Left	A		
Thru	A	P			Thru			
Right					Right	A		
Peds					Peds			
NB Right					EB Right	A		
SB Right					WB Right			
Green	15.0	35.0			25.0			
Yellow	4.0	4.0			4.0			
All Red	1.0	1.0			1.0			

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group Delay LOS	Approach Delay LOS	
			v/c	g/c			

Eastbound

T	705	1763	1.28	0.40	147.1	F	81.3	F
R	1125	1558	0.73	0.72	9.5	A		

Westbound

DefL	405	1805	0.90	0.62	38.3	D		
T	1099	1766	0.59	0.62	1.6	A	14.8	B

Northbound

Southbound

L	511	1769	0.21	0.29	24.3	C	24.1	C
R	457	1583	0.04	0.29	23.0	C		

Intersection Delay = 55.3 (sec/veh) Intersection LOS = E

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/11/11
 Period: PM PEAK HOUR
 Project ID: 1646PMNB9
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & TACONIC SB RAMP
 Area Type: All other areas
 Jurisd: 2013 NO-BUILD TRAFFIC VOLUMES
 Year :
 N/S St: TACONIC STATE PKWY SB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	1	0	2	0	0	0	0	1	0	1
LGConfig		T	R		LT					L		R
Volume		1116	339	85	1448					47		62
Lane Width		12.0	12.0		11.0					12.0		12.0
RTOR Vol			0									29

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
WB Left		A	P		SB Left	A		
Thru		A	P		Thru			
Right					Right	A		
Peds					Peds			
NB Right					EB Right	A		
SB Right					WB Right			
Green		15.0	35.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios v/c g/C		Lane Group Delay LOS	Approach Delay LOS	
Eastbound							
T	705	1763	1.72	0.40	359.8 F	277.2	F
R	1125	1558	0.33	0.72	4.7 A		
Westbound							
LT	1337	3360	1.25	0.62	123.6 F	123.6	F
Northbound							
Southbound							
L	511	1769	0.10	0.29	23.5 C	23.4	C
R	457	1583	0.08	0.29	23.3 C		
Intersection Delay = 193.7 (sec/veh)				Intersection LOS = F			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/11/11
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATNB9
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & TACONIC SB RAMP
 Area Type: All other areas
 Jurisd: 2013 NO-BUILD TRAFFIC VOLUMES
 Year :
 N/S St: TACONIC STATE PKWY SB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	1	0	2	0	0	0	0	1	0	1
LGConfig		T	R		LT					L		R
Volume		1202	402	114	1196					66		71
Lane Width		12.0	12.0		11.0					12.0		12.0
RTOR Vol			0									0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
WB Left	A	P			SB Left	A		
Thru	A	P			Thru			
Right					Right	A		
Peds					Peds			
NB Right					EB Right	A		
SB Right					WB Right			
Green	15.0	35.0			25.0			
Yellow	4.0	4.0			4.0			
All Red	1.0	1.0			1.0			

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group Delay LOS	Approach Delay LOS	
			v/c	g/C			

Eastbound

T	705	1763	1.81	0.40	396.8	F	298.5	F
R	1125	1558	0.38	0.72	4.9	A		

Westbound

LT	1351	3359	1.00	0.62	31.5	C	31.5	C
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Northbound

Southbound

L	511	1769	0.14	0.29	23.8	C	23.9	C
R	457	1583	0.17	0.29	24.0	C		

Intersection Delay = 173.1 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMBD9
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & TACONIC SB RAMP
 Area Type: All other areas
 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Year :
 N/S St: TACONIC STATE PARKWAY SB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	1	0	2	0	0	0	0	1	0	1
LGConfig		T	R	DefL	T					L		R
Volume		840	764	334	625					95		62
Lane Width		12.0	12.0	12.0	11.0					12.0		12.0
RTOR Vol			0									40

Duration 0.25 Area Type: All other areas
 Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
WB Left	A	P			SB Left	A		
Thru	A	P			Thru			
Right					Right	A		
Peds					Peds			
NB Right					EB Right	A		
SB Right					WB Right			
Green	15.0	35.0			25.0			
Yellow	4.0	4.0			4.0			
All Red	1.0	1.0			1.0			

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

T	705	1763	1.30	0.40	153.5	F	85.0	F
R	1125	1558	0.74	0.72	9.6	A		

Westbound

DefL	405	1805	0.90	0.62	38.3	D		
T	1099	1766	0.62	0.62	1.8	A	14.5	B

Northbound

Southbound

L	511	1769	0.21	0.29	24.3	C	24.1	C
R	457	1583	0.05	0.29	23.1	C		

Intersection Delay = 57.1 (sec/veh) Intersection LOS = E

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/04/2011
 Period: PM PEAK HOUR
 Project ID: 1646PMBD9
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & TACONIC SB RAMP
 Area Type: All other areas
 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Year :
 N/S St: TACONIC STATE PKWY SB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	1	0	2	0	0	0	0	1	0	1
LGConfig		T	R		LT					L		R
Volume		1236	399	85	1585					47		105
Lane Width		12.0	12.0		11.0					12.0		12.0
RTOR Vol			0									21

Duration 0.25 Area Type: All other areas
 Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
WB Left	A	P			SB Left	A		
Thru	A	P			Thru			
Right					Right	A		
Peds					Peds			
NB Right					EB Right	A		
SB Right					WB Right			
Green	15.0	35.0			25.0			
Yellow	4.0	4.0			4.0			
All Red	1.0	1.0			1.0			

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group Delay LOS	Approach Delay LOS	
			v/c	g/C			

Eastbound

T	705	1763	1.90	0.40	444.4	F	337.1	F
R	1125	1558	0.39	0.72	5.0	A		

Westbound

LT	1337	3361	1.36	0.62	176.9	F	176.9	F
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Northbound

Southbound

L	511	1769	0.10	0.29	23.5	C	24.0	C
R	457	1583	0.20	0.29	24.3	C		

Intersection Delay = 247.2 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/04/2010
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATBD9
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & TACONIC SB RAMP
 Area Type: All other areas
 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Year :
 N/S St: TACONIC STATE PKWY SB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	1	0	2	0	0	0	0	1	0	1
LGConfig		T	R		LT					L		R
Volume		1396	499	114	1417					66		141
Lane Width		12.0	12.0		11.0					12.0		12.0
RTOR Vol			0									59

Duration 0.25 Area Type: All other areas
 Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left			
Thru			P		Thru			
Right			P		Right			
Peds					Peds			
WB Left		A	P		SB Left	A		
Thru		A	P		Thru			
Right					Right	A		
Peds					Peds			
NB Right					EB Right	A		
SB Right					WB Right			
Green		15.0	35.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
T	705	1763	2.11	0.40	526.6	F	389.3	F
R	1125	1558	0.47	0.72	5.3	A		
Westbound								
LT	1345	3360	1.17	0.62	96.1	F	96.1	F
Northbound								
Southbound								
L	511	1769	0.14	0.29	23.8	C	24.0	C
R	457	1583	0.20	0.29	24.2	C		
Intersection Delay = 250.2 (sec/veh)					Intersection LOS = F			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD

Inter.: ROUTE 202/35 & TACONIC SB RAMP

Agency: JCE

Area Type: All other areas

Date: 02/15/2011

Jurisd: 2013 BUILD TRAFFIC VOLUMES

Period: AM PEAK HOUR

Year :

Project ID: 1646AMBD9 - WITH IMPROVEMENTS

E/W St: ROUTE 202/35

N/S St: TACONIC STATE PARKWAY SB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	1	0	3	0	0	0	0	1	0	1
LGConfig		T	R	DefL	T					L		R
Volume		840	764	334	625					95		62
Lane Width		12.0	12.0	12.0	11.0					12.0		12.0
RTOR Vol			0									62

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
WB Left	A	P			SB Left	A		
Thru	A	P			Thru			
Right					Right	A		
Peds					Peds			
NB Right					EB Right	A		
SB Right					WB Right			
Green	15.0	43.0			17.0			
Yellow	4.0	4.0			4.0			
All Red	1.0	1.0			1.0			

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

T	862	1763	1.06	0.49	52.8	D	32.2	C
R	1125	1558	0.74	0.72	9.5	A		

Westbound

DefL	405	1805	0.90	0.71	47.1	D		
T	2391	3363	0.28	0.71	0.8	A	17.0	B

Northbound

Southbound

L	354	1769	0.30	0.20	30.8	C	30.8	C
R	317	1583	0.00	0.20	28.8	C		

Intersection Delay = 26.7 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & TACONIC SB RAMP
 Agency: JCE Area Type: All other areas
 Date: 2/12/11 Jurisd: 2013 BUILD TRAFFIC VOLUMES - I
 Period: PM PEAK HOUR Year :
 Project ID: 1646PMBD9 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: TACONIC STATE PKWY SB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	1	0	3	0	0	0	0	1	0	1
LGConfig		T	R	DefL	T					L		R
Volume		1236	399	85	1585					47		105
Lane Width		12.0	12.0	12.0	11.0					12.0		12.0
RTOR Vol			0									15

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
WB Left	A	P			SB Left	A		
Thru	A	P			Thru			
Right					Right	A		
Peds					Peds			
NB Right					EB Right	A		
SB Right					WB Right			
Green	10.0	55.0			10.0			
Yellow	4.0	4.0			4.0			
All Red	1.0	1.0			1.0			

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

T	1097	1763	1.22	0.62	126.5	F	96.4	F
R	1212	1558	0.36	0.78	3.2	A		

Westbound

DefL	306	1805	0.30	0.79	20.5	C		
T	2653	3363	0.65	0.79	1.1	A	2.1	A

Northbound

Southbound

L	216	1769	0.24	0.12	35.9	D	37.4	D
R	193	1583	0.52	0.12	38.1	D		

Intersection Delay = 48.3 (sec/veh) Intersection LOS = D

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & TACONIC SB RAMP
 Agency: JCE Area Type: All other areas
 Date: 2/13/11 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Period: SATURDAY PEAK HOUR Year :
 Project ID: 1646SATBD9 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: TACONIC STATE PKWY SB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	1	0	3	0	0	0	0	1	0	1
LGConfig		T	R	DefL	T					L		R
Volume		1396	499	114	1717					66		141
Lane Width		12.0	12.0	12.0	11.0					12.0		12.0
RTOR Vol			0									46

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
WB Left	A	P			SB Left	A		
Thru	A	P			Thru			
Right					Right	A		
Peds					Peds			
NB Right					EB Right	A		
SB Right					WB Right			
Green	10.0	55.0			10.0			
Yellow	4.0	4.0			4.0			
All Red	1.0	1.0			1.0			

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

T 1097 1763 1.35 0.62 182.2 F 135.2 F
 R 1212 1558 0.44 0.78 3.6 A

Westbound

DefL 306 1805 0.39 0.79 20.9 C
 T 2653 3363 0.67 0.79 1.3 A 2.5 A

Northbound

Southbound

L 216 1769 0.34 0.12 36.5 D 38.0 D
 R 193 1583 0.55 0.12 39.1 D

Intersection Delay = 69.6 (sec/veh) Intersection LOS = E

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMEX10
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & TACONIC NB RAMP
 Area Type: All other areas
 Jurisd: 2010 EXISTING TRAFFIC VOLUMES
 Year :
 N/S St: TACONIC STATE PARKWAY NB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	1	0	1	0	0	0
LGConfig	L	T			TR		L		R			
Volume	75	768			746	13	95		80			
Lane Width	11.0	11.0			11.0		12.0		12.0			
RTOR Vol						1			63			

Duration 0.25 Area Type: All other areas
 Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P	A		NB Left	A		
Thru		P	A		Thru			
Right					Right	A		
Peds					Peds			
WB Left					SB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		40.0	10.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	411	1675	0.20	0.62	20.1	C		
T	1055	1695	0.79	0.62	15.9	B	16.3	B
Westbound								
TR	823	1807	1.00	0.46	54.3	D	54.3	D
Northbound								
L	529	1832	0.20	0.29	24.2	C	24.0	C
R	473	1639	0.04	0.29	23.0	C		
Southbound								

Intersection Delay = 33.6 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 1/18/2011
 Period: PM PEAK HOUR
 Project ID: 1646PMEX10
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & TSP NB RAMPS
 Area Type: All other areas
 Jurisd: 2010 EXISTING TRAFFIC VOLUMES
 Year :
 N/S St: TACONIC STATE PKWY NB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	1	0	1	0	0	0
LGConfig	L	T			TR		L		R			
Volume	237	763			742	79	590		352			
Lane Width	11.0	11.0			11.0		12.0		12.0			
RTOR Vol						4			127			

Duration 0.25 Area Type: All other areas
 Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P	A		NB Left	A		
Thru		P	A		Thru			
Right					Right	A		
Peds					Peds			
WB Left					SB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		40.0	10.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		
Cycle Length: 90.0 secs								

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	403	1675	0.64	0.62	29.3	C		
T	1055	1695	0.79	0.62	8.6	A	13.5	B
Westbound								
TR	817	1794	1.04	0.46	125.8	F	125.8	F
Northbound								
L	529	1832	1.24	0.29	155.4	F		
R	473	1639	0.53	0.29	27.4	C	120.1	F
Southbound								

Intersection Delay = 81.0 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 1/18/2011
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATEX10
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & TSP NB RAMPS
 Area Type: All other areas
 Jurisd: 2010 EXISTING TRAFFIC VOLUMES
 Year :
 N/S St: TACONIC STATE PKWY NB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	1	0	1	0	0	0
LGConfig	L	T			TR		L		R			
Volume	260	843			864	47	266		108			
Lane Width	11.0	11.0			11.0		12.0		12.0			
RTOR Vol						2			82			

Duration 0.25 Area Type: All other areas
 Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P			NB Left	P		
Thru		P			Thru			
Right					Right	P		
Peds					Peds			
WB Left					SB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		40.0	10.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group	Approach	
			v/c	g/C	Delay LOS	Delay LOS	
Eastbound							
L	369	1675	0.78	0.62	57.8 E		
T	1055	1695	0.88	0.62	36.5 D	41.5 D	
Westbound							
TR	820	1801	1.20	0.46	126.2 F	126.2 F	
Northbound							
L	529	1832	0.53	0.29	37.1 D		
R	473	1639	0.06	0.29	23.4 C	35.9 D	
Southbound							

Intersection Delay = 74.1 (sec/veh) Intersection LOS = E

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMNB10
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & TACONIC NB RAMP
 Area Type: All other areas
 Jurisd: 2013 NO-BUILD TRAFFIC VOLUMES
 Year :
 N/S St: TACONIC STATE PARKWAY NB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	1	0	1	0	0	0
LGConfig	L	T			TR		L		R			
Volume	90	836			815	14	118		85			
Lane Width	11.0	11.0			11.0		12.0		12.0			
RTOR Vol						1			67			

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P	A		NB Left	A		
Thru		P	A		Thru			
Right					Right	A		
Peds					Peds			
WB Left					SB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		40.0	10.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group Delay LOS	Approach Delay LOS	
			v/c	g/C			
Eastbound							
L	391	1675	0.25	0.62	22.4	C	
T	1055	1695	0.86	0.62	12.9	B	13.9 B
Westbound							
TR	823	1807	1.09	0.46	82.4	F	82.4 F
Northbound							
L	529	1832	0.25	0.29	24.6	C	24.4 C
R	473	1639	0.04	0.29	23.1	C	
Southbound							

Intersection Delay = 44.6 (sec/veh) Intersection LOS = D

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/15/2011
 Period: PM PEAK HOUR
 Project ID: 1646PMNB10
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & TSP NB RAMPS
 Area Type: All other areas
 Jurisd: 2013 NO-BUILD TRAFFIC VOLUMES
 Year :
 N/S St: TACONIC STATE PKWY NB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	1	0	1	0	0	0
LGConfig	L	T			TR		L		R			
Volume	281	882			862	84	671		373			
Lane Width	11.0	11.0			11.0		12.0		12.0			
RTOR Vol						4			127			

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P	A		NB Left	A		
Thru		P	A		Thru			
Right					Right	A		
Peds					Peds			
WB Left					SB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		40.0	10.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	371	1675	0.82	0.62	39.3	D		
T	1055	1695	0.91	0.62	14.4	B	20.4	C
Westbound								
TR	818	1795	1.20	0.46	185.4	F	185.4	F
Northbound								
L	529	1832	1.41	0.29	227.6	F		
R	473	1639	0.58	0.29	28.5	C	174.3	F
Southbound								

Intersection Delay = 118.0 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/11/11
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATNB10
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & TACONIC NB RAMP
 Area Type: All other areas
 Jurisd: 2013 NO-BUILD TRAFFIC VOLUMES
 Year :
 N/S St: TACONIC STATE PKWY NB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	1	0	1	0	0	0
LGConfig	L	T			TR		L		R			
Volume	304	963			986	50	324		114			
Lane Width	11.0	11.0			11.0		12.0		12.0			
RTOR Vol						2			80			

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P			NB Left	P		
Thru		P			Thru			
Right					Right	P		
Peds					Peds			
WB Left					SB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		40.0	10.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group	Approach	
			v/c	g/C	Delay LOS	Delay LOS	
Eastbound							
L	359	1675	0.92	0.62	80.4 F		
T	1055	1695	0.99	0.62	55.6 E	61.5 E	
Westbound							
TR	821	1802	1.37	0.46	196.2 F	196.2 F	
Northbound							
L	529	1832	0.65	0.29	57.0 E	53.9 D	
R	473	1639	0.08	0.29	23.6 C		
Southbound							

Intersection Delay = 113.1 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMBD10
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & TACONIC NB RAMP
 Area Type: All other areas
 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Year :
 N/S St: TACONIC STATE PARKWAY NB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	1	0	1	0	0	0
LGConfig	L	T			TR		L		R			
Volume	93	842			829	14	129		85			
Lane Width	11.0	11.0			11.0		12.0		12.0			
RTOR Vol						1			67			

Duration 0.25 Area Type: All other areas
 Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P			NB Left	A		
Thru		P			Thru			
Right					Right	A		
Peds					Peds			
WB Left					SB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		40.0	10.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group	Approach	
			v/c	g/C	Delay LOS	Delay LOS	
Eastbound							
L	387	1675	0.26	0.62	22.9 C		
T	1055	1695	0.87	0.62	13.3 B	14.2 B	
Westbound							
TR	824	1808	1.11	0.46	88.5 F	88.5 F	
Northbound							
L	529	1832	0.27	0.29	24.8 C	24.6 C	
R	473	1639	0.04	0.29	23.1 C		
Southbound							

Intersection Delay = 47.5 (sec/veh) Intersection LOS = D

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/15/2011
 Period: PM PEAK HOUR
 Project ID: 1646PMBD10
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & TSP NB RAMPS
 Area Type: All other areas
 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Year :
 N/S St: TACONIC STATE PKWY NB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	1	0	1	0	0	0
LGConfig	L	T			TR		L		R			
Volume	324	959			939	84	731		373			
Lane Width	11.0	11.0			11.0		12.0		12.0			
RTOR Vol						4			127			

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P	A		NB Left	A		
Thru		P	A		Thru			
Right					Right	A		
Peds					Peds			
WB Left					SB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		40.0	10.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	359	1675	0.98	0.62	64.3	E		
T	1055	1695	0.99	0.62	26.2	C	35.8	D
Westbound								
TR	818	1796	1.30	0.46	227.1	F	227.1	F
Northbound								
L	529	1832	1.53	0.29	282.1	F		
R	473	1639	0.58	0.29	28.5	C	218.3	F
Southbound								

Intersection Delay = 149.1 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/04/2010
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATBD10
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & TACONIC NB RAMP
 Area Type: All other areas
 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Year :
 N/S St: TACONIC STATE PKWY. NB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	1	0	1	0	0	0
LGConfig	L	T			TR		L		R			
Volume	374	1087			1110	50	421		114			
Lane Width	11.0	11.0			11.0		12.0		12.0			
RTOR Vol						2			79			

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P	A		NB Left	A		
Thru		P	A		Thru			
Right					Right	A		
Peds					Peds			
WB Left					SB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		40.0	10.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	359	1675	1.13	0.62	99.2	F		
T	1055	1695	1.12	0.62	64.4	E	73.3	E
Westbound								
TR	821	1803	1.53	0.46	273.5	F	273.5	F
Northbound								
L	529	1832	0.85	0.29	41.7	D		
R	473	1639	0.08	0.29	23.3	C	40.3	D
Southbound								

Intersection Delay = 144.1 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.3

Analyst: RGD

Inter.: ROUTE 202/35 & TACONIC NB RAMP

Agency: JCE

Area Type: All other areas

Date: 02/15/2011

Jurisd: 2013 BUILD TRAFFIC VOLUMES

Period: AM PEAK HOUR

Year :

Project ID: 1646AMBD10 - WITH IMPROVEMENTS

E/W St: ROUTE 202/35

N/S St: TACONIC STATE PARKWAY NB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	2	0	1	0	1	0	0	0
LGConfig	L	T			TR		L		R			
Volume	93	842			829	14	129		85			
Lane Width	11.0	11.0			11.0		12.0		12.0			
RTOR Vol						1			67			

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P	A		NB Left	A		
Thru		P	A		Thru			
Right					Right	A		
Peds					Peds			
WB Left					SB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		40.0	10.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	465	1675	0.22	0.62	13.6	B		
T	1055	1695	0.87	0.62	13.3	B	13.3	B
Westbound								
TR	1568	3441	0.58	0.46	16.4	B	16.4	B
Northbound								
L	529	1832	0.27	0.29	24.8	C		
R	473	1639	0.04	0.29	23.1	C	24.6	C
Southbound								

Intersection Delay = 15.5 (sec/veh) Intersection LOS = B

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/12/11
 Period: PM PEAK HOUR
 Project ID: 1646PMBD10 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & TACONIC NB RAMP
 Area Type: All other areas
 Jurisd: 2013 BUILD TRAFFIC VOLUMES - I
 Year :
 N/S St: TACONIC STATE PKWY NB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	2	0	1	0	1	0	0	0
LGConfig	L	T			TR		L		R			
Volume	324	959			939	84	731		373			
Lane Width	11.0	11.0			11.0		12.0		12.0			
RTOR Vol						8			78			

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P	A		NB Left	A		
Thru		P	A		Thru			
Right					Right	A		
Peds					Peds			
WB Left					SB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		33.0	10.0			32.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	359	1675	0.95	0.54	39.9	D		
T	923	1695	1.09	0.54	49.8	D	47.3	D
Westbound								
TR	1291	3418	0.82	0.38	26.8	C	26.8	C
Northbound								
L	702	1832	1.16	0.38	113.8	F	87.7	F
R	601	1639	0.55	0.37	23.2	C		
Southbound								

Intersection Delay = 54.2 (sec/veh) Intersection LOS = D

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & TACONIC NB RAMP
 Agency: JCE Area Type: All other areas
 Date: 2/13/11 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Period: SATURDAY PEAK HOUR Year :
 Project ID: 1646SATBD10 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: TACONIC STATE PKWY NB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	2	0	1	0	1	0	0	0
LGConfig	L	T			TR		L		R			
Volume	374	1087			1110	50	421		114			
Lane Width	11.0	11.0			11.0		12.0		12.0			
RTOR Vol						4			59			

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P	A		NB Left	A		
Thru		P	A		Thru			
Right					Right	A		
Peds					Peds			
WB Left					SB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		40.0	12.0			23.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	396	1675	1.03	0.64	54.8	D		
T	1092	1695	1.08	0.64	46.2	D	48.4	D
Westbound								
TR	1563	3431	0.80	0.46	27.8	C	27.8	C
Northbound								
L	489	1832	0.92	0.27	53.6	D	50.3	D
R	437	1639	0.14	0.27	25.2	C		
Southbound								

Intersection Delay = 41.0 (sec/veh) Intersection LOS = D

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & TACONIC NB RAMP
 Agency: JCE Area Type: All other areas
 Date: 02/15/2011 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Period: AM PEAK HOUR Year :
 Project ID: 1646AMBD10 - WITH ADDITIONAL IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: TACONIC STATE PARKWAY NB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	2	0	2	0	1	0	0	0
LGConfig	L	T			TR		L		R			
Volume	93	842			829	14	129		85			
Lane Width	11.0	11.0			11.0		12.0		12.0			
RTOR Vol						1			67			

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P	A		NB Left	A		
Thru		P	A		Thru			
Right					Right	A		
Peds					Peds			
WB Left					SB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		40.0	10.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group Delay LOS	Approach Delay LOS	
			v/c	g/C			
Eastbound							
L	465	1675	0.22	0.62	13.6	B	
T	1055	1695	0.87	0.62	14.4	B	14.3 B
Westbound							
TR	1568	3441	0.58	0.46	16.4	B	16.4 B
Northbound							
L	1028	3558	0.14	0.29	23.7	C	23.6 C
R	473	1639	0.04	0.29	23.1	C	
Southbound							

Intersection Delay = 16.0 (sec/veh) Intersection LOS = B

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/04/2011
 Period: PM PEAK HOUR
 Project ID: 1646PM10 - WITH ADDITIONAL IMPROVEMENTS
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & TACONIC NB RAMP
 Area Type: All other areas
 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Year :
 N/S St: TACONIC STATE PARKWAY NB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	2	0	2	0	1	0	0	0
LGConfig	L	T			TR		L		R			
Volume	324	959			939	84	731		373			
Lane Width	11.0	11.0			11.0		12.0		12.0			
RTOR Vol						8			78			

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P			NB Left	P		
Thru		P			Thru			
Right					Right	P		
Peds					Peds			
WB Left					SB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		40.0	10.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group	Approach	
			v/c	g/C	Delay LOS	Delay LOS	
Eastbound							
L	420	1675	0.84	0.62	38.9 D		
T	1055	1695	0.99	0.62	23.8 C	27.6	C
Westbound							
TR	1557	3418	0.68	0.46	17.5 B	17.5	B
Northbound							
L	1028	3558	0.79	0.29	35.7 D	35.9	D
R	473	1639	0.69	0.29	36.6 D		
Southbound							

Intersection Delay = 27.3 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.3

Analyst: RGD

Inter.: ROUTE 202/35 & TACONIC NB RAMP

Agency: JCE

Area Type: All other areas

Date: 2/14/11

Jurisd: 2013 BUILD TRAFFIC VOLUMES

Period: SATURDAY PEAK HOUR

Year :

Project ID: 1646SATBD10 - WITH ADDITIONAL IMPROVEMENTS

E/W St: ROUTE 202/35

N/S St: TACONIC STATE PARKWAY NB RAMPS

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	2	0	2	0	1	0	0	0
LGConfig	L	T			TR		L		R			
Volume	374	1087			1110	50	421		114			
Lane Width	11.0	11.0			11.0		12.0		12.0			
RTOR Vol						4			80			

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P			NB Left	P		
Thru		P			Thru			
Right					Right	P		
Peds					Peds			
WB Left					SB Left			
Thru		A			Thru			
Right		A			Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		37.5	17.5			20.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	499	1675	0.82	0.68	40.1	D		
T	1149	1695	1.03	0.68	36.9	D	37.7	D
Westbound								
TR	1468	3431	0.86	0.43	23.2	C	23.2	C
Northbound								
L	830	3558	0.54	0.23	32.8	C		
R	382	1639	0.09	0.23	27.5	C	32.4	C
Southbound								

Intersection Delay = 31.4 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMEX11
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & STRANG BLVD
 Area Type: All other areas
 Jurisd: 2010 EXISTING TRAFFIC VOLUMES
 Year :
 N/S St: STRANG BOULEVARD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	0	0	1	0	1
LGConfig	L	T			TR					L		R
Volume	140	708			613	16				4		134
Lane Width	12.0	13.0			11.0					10.0		10.0
RTOR Vol						0						107

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left			
Thru		A	P		Thru			
Right					Right			
Peds					Peds			
WB Left					SB Left	A		
Thru			P		Thru			
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right		A			WB Right			
Green		15.0	35.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	454	1823	0.33	0.62	13.1	B		
T	1186	1906	0.65	0.62	23.3	C	21.6	C
Westbound								
TR	703	1757	0.97	0.40	54.2	D	54.2	D
Northbound								
Southbound								
L	482	1668	0.01	0.29	22.8	C	12.4	B
R	763	1493	0.04	0.51	11.0	B		
Intersection Delay = 35.0- (sec/veh)					Intersection LOS = C			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 1/18/2011
 Period: PM PEAK HOUR
 Project ID: 1646PMEX11
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & STRANG BLVD
 Area Type: All other areas
 Jurisd: 2010 EXISTING TRAFFIC VOLUMES
 Year :
 N/S St: STRANG BOULEVARD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	0	0	1	0	1
LGConfig	L	T			TR					L		R
Volume	170	945			714	15				26		107
Lane Width	12.0	13.0			11.0					10.0		10.0
RTOR Vol						0						62

Duration 0.25 Area Type: All other areas
 Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left			
Thru		A	P		Thru			
Right					Right			
Peds					Peds			
WB Left					SB Left	A		
Thru			P		Thru			
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right		A			WB Right			
Green		15.0	35.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	418	1823	0.44	0.62	13.2	B		
T	1186	1906	0.87	0.62	18.2	B	17.5	B
Westbound								
TR	703	1758	1.13	0.40	101.4	F	101.4	F
Northbound								
Southbound								
L	482	1668	0.06	0.29	23.2	C	15.6	B
R	763	1493	0.07	0.51	11.1	B		
Intersection Delay = 49.3 (sec/veh)					Intersection LOS = D			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 1/18/2011
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATEX11
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & STRANG BLVD
 Area Type: All other areas
 Jurisd: 2010 EXISTING TRAFFIC VOLUMES
 Year :
 N/S St: STRANG BOULEVARD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	0	0	1	0	1
LGConfig	L	T			TR					L		R
Volume	133	818			830	31				11		76
Lane Width	12.0	13.0			11.0					10.0		10.0
RTOR Vol						0						51

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left			
Thru		A			Thru			
Right					Right			
Peds					Peds			
WB Left					SB Left	A		
Thru				P	Thru			
Right				P	Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right		A			WB Right			
Green		15.0	35.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	409	1823	0.34	0.62	15.4	B		
T	1186	1906	0.73	0.62	7.2	A	8.4	A
Westbound								
TR	702	1755	1.30	0.40	174.4	F	174.4	F
Northbound								
Southbound								
L	482	1668	0.02	0.29	22.9	C	14.6	B
R	763	1493	0.04	0.51	11.0	B		
Intersection Delay = 86.2 (sec/veh) Intersection LOS = F								

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMNB11
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & STRANG BLVD
 Area Type: All other areas
 Jurisd: 2013 NO-BUILD TRAFFIC VOLUMES
 Year :
 N/S St: STRANG BOULEVARD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	0	0	1	0	1
LGConfig	L	T			TR					L		R
Volume	150	771			672	17				4		143
Lane Width	12.0	13.0			11.0					10.0		10.0
RTOR Vol						1						85

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left			
Thru		A	P		Thru			
Right					Right			
Peds					Peds			
WB Left					SB Left	A		
Thru			P		Thru			
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right		A			WB Right			
Green		15.0	35.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	432	1823	0.38	0.62	14.0	B		
T	1186	1906	0.71	0.62	25.0	C	23.2	C
Westbound								
TR	703	1758	1.06	0.40	80.8	F	80.8	F
Northbound								
Southbound								
L	482	1668	0.01	0.29	22.8	C	11.9	B
R	763	1493	0.08	0.51	11.3	B		
Intersection Delay = 46.5 (sec/veh)					Intersection LOS = D			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/11/11
 Period: PM PEAK HOUR
 Project ID: 1646PMNB11
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & STRANG BLVD
 Area Type: All other areas
 Jurisd: 2013 NO-BUILD TRAFFIC VOLUMES
 Year :
 N/S St: STRANG BOULEVARD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	0	0	1	0	1
LGConfig	L	T			TR					L		R
Volume	185	1070			827	16				28		118
Lane Width	12.0	13.0			11.0					10.0		10.0
RTOR Vol						0						38

Duration 0.25 Area Type: All other areas
 Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P	P		NB Left			
Thru		P	P		Thru			
Right					Right			
Peds					Peds			
WB Left					SB Left	A		
Thru			P		Thru			
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right		A			WB Right			
Green		15.0	35.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	409	1823	0.49	0.62	16.9	B		
T	1186	1906	0.98	0.62	29.8	C	27.9	C
Westbound								
TR	703	1758	1.30	0.40	173.6	F	173.6	F
Northbound								
Southbound								
L	482	1668	0.06	0.29	23.2	C	14.5	B
R	763	1493	0.12	0.51	11.5	B		
Intersection Delay = 82.8 (sec/veh)					Intersection LOS = F			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/11/11
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATNB11
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & STRAND BLVD
 Area Type: All other areas
 Jurisd: 2013 NO-BUILD TRAFFIC VOLUMES
 Year :
 N/S St: STRANG BOULEVARD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	0	0	1	0	1
LGConfig	L	T			TR					L		R
Volume	146	932			946	33				12		85
Lane Width	12.0	13.0			11.0					10.0		10.0
RTOR Vol						1						32

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P	P		NB Left			
Thru		P	P		Thru			
Right					Right			
Peds					Peds			
WB Left					SB Left	A		
Thru			P		Thru			
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right		A			WB Right			
Green		15.0	35.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	409	1823	0.38	0.62	17.5	B		
T	1186	1906	0.83	0.62	27.0	C	25.7	C
Westbound								
TR	702	1756	1.48	0.40	251.3	F	251.3	F
Northbound								
Southbound								
L	482	1668	0.03	0.29	22.9	C	13.3	B
R	763	1493	0.08	0.51	11.2	B		
Intersection Delay = 129.7 (sec/veh)					Intersection LOS = F			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMBD11
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & STRANG BLVD
 Area Type: All other areas
 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Year :
 N/S St: STRANG BOULEVARD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	0	0	1	0	1
LGConfig	L	T			TR					L		R
Volume	150	777			686	17				4		144
Lane Width	12.0	13.0			11.0					10.0		10.0
RTOR Vol						1						80

Duration 0.25 Area Type: All other areas
 Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left			
Thru		A	P		Thru			
Right					Right			
Peds					Peds			
WB Left					SB Left	A		
Thru			P		Thru			
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right		A			WB Right			
Green		15.0	35.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	427	1823	0.38	0.62	14.3	B		
T	1186	1906	0.71	0.62	25.2	C	23.4	C
Westbound								
TR	703	1758	1.09	0.40	86.4	F	86.4	F
Northbound								
Southbound								
L	482	1668	0.01	0.29	22.8	C	11.9	B
R	763	1493	0.09	0.51	11.3	B		
Intersection Delay = 49.0 (sec/veh)					Intersection LOS = D			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/04/2011
 Period: PM PEAK HOUR
 Project ID: 1646PMBD11
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & STRANG BLVD
 Area Type: All other areas
 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Year :
 N/S St: STRANG BOULEVARD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	0	0	1	0	1
LGConfig	L	T			TR					L		R
Volume	190	1142			899	16				28		123
Lane Width	12.0	13.0			11.0					10.0		10.0
RTOR Vol						0						27

Duration 0.25 Area Type: All other areas
 Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left			
Thru		A	P		Thru			
Right					Right			
Peds					Peds			
WB Left					SB Left	A		
Thru			P		Thru			
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right		A			WB Right			
Green		15.0	35.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios v/c g/C		Lane Group Delay LOS	Approach Delay LOS	
Eastbound							
L	409	1823	0.51	0.62	16.1 B		
T	1186	1906	1.05	0.62	45.5 D	41.3	D
Westbound							
TR	704	1759	1.41	0.40	220.8 F	220.8	F
Northbound							
Southbound							
L	482	1668	0.06	0.29	23.2 C	14.2	B
R	763	1493	0.14	0.51	11.6 B		
Intersection Delay = 109.0 (sec/veh)				Intersection LOS = F			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/04/2010
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATBD11
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & STRANG BLVD
 Area Type: All other areas
 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Year :
 N/S St: STRANG BOULEVARD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	0	0	1	0	1
LGConfig	L	T			TR					L		R
Volume	153	1049			1062	33				12		93
Lane Width	12.0	13.0			11.0					10.0		10.0
RTOR Vol						1						19

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left			
Thru		A	P		Thru			
Right					Right			
Peds					Peds			
WB Left					SB Left	A		
Thru			P		Thru			
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right		A			WB Right			
Green		15.0	35.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	409	1823	0.39	0.62	17.0	B		
T	1186	1906	0.93	0.62	31.7	C	29.8	C
Westbound								
TR	702	1756	1.66	0.40	329.5	F	329.5	F
Northbound								
Southbound								
L	482	1668	0.03	0.29	22.9	C	13.0	B
R	763	1493	0.11	0.51	11.4	B		
Intersection Delay = 167.4 (sec/veh)					Intersection LOS = F			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & STRANG BLVD
 Agency: JCE Area Type: All other areas
 Date: 02/15/2011 Jurisd: 2013 NO-BUILD TRAFFIC VOLUMES
 Period: AM PEAK HOUR Year :
 Project ID: 1646AMNB11 - WITH TIMING IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: STRANG BOULEVARD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	0	0	1	0	1
LGConfig	L	T			TR					L		R
Volume	150	771			672	17				4		143
Lane Width	12.0	13.0			11.0					10.0		10.0
RTOR Vol						1						80

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left			
Thru		A			Thru			
Right					Right			
Peds					Peds			
WB Left					SB Left	A		
Thru				P	Thru			
Right				P	Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right		A			WB Right			
Green		10.0	40.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	393	1823	0.41	0.62	12.4	B		
T	1186	1906	0.71	0.62	25.0	C	22.9	C
Westbound								
TR	801	1758	0.93	0.46	42.3	D	42.3	D
Northbound								
Southbound								
L	482	1668	0.01	0.29	22.8	C	14.5	B
R	680	1493	0.10	0.46	14.0	B		
Intersection Delay = 30.5 (sec/veh)					Intersection LOS = C			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/04/2011
 Period: PM PEAK HOUR
 Project ID: 1646PMBD11 - WITH TIMING IMPROVEMENTS
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & STRANG BLVD
 Area Type: All other areas
 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Year :
 N/S St: STRANG BOULEVARD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	0	0	1	0	1
LGConfig	L	T			TR					L		R
Volume	185	1070			827	16				28		118
Lane Width	12.0	13.0			11.0					10.0		10.0
RTOR Vol						0						27

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left			
Thru		A	P		Thru			
Right					Right			
Peds					Peds			
WB Left					SB Left	A		
Thru			P		Thru			
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right		A			WB Right			
Green		9.0	49.0			17.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group Delay LOS	Approach Delay LOS	
			v/c	g/c			
Eastbound							
L	420	1823	0.48	0.71	8.5	A	
T	1355	1906	0.86	0.71	11.4	B	11.0 B
Westbound							
TR	977	1758	0.94	0.56	35.7	D	35.7 D
Northbound							
Southbound							
L	334	1668	0.09	0.20	29.4	C	22.3 C
R	531	1493	0.19	0.36	20.1	C	
Intersection Delay = 21.0 (sec/veh)				Intersection LOS = C			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & STRANG BLVD
 Agency: JCE Area Type: All other areas
 Date: 02/04/2010 Jurisd: 2013 NO-BUILD TRAFFIC VOLUMES
 Period: SATURDAY PEAK HOUR Year :
 Project ID: 1646SATNB11 - WITH TIMING IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: STRANG BOULEVARD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	0	0	1	0	1
LGConfig	L	T			TR					L		R
Volume	146	932			946	33				12		85
Lane Width	12.0	13.0			11.0					10.0		10.0
RTOR Vol						1						19

Duration 0.25 Area Type: All other areas
 Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left			
Thru		A	P		Thru			
Right					Right			
Peds					Peds			
WB Left					SB Left	A		
Thru			P		Thru			
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right		A			WB Right			
Green		5.0	57.0			13.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	383	1823	0.40	0.76	6.3	A		
T	1440	1906	0.68	0.76	10.7	B	10.1	B
Westbound								
TR	1132	1756	0.92	0.64	36.5	D	36.5	D
Northbound								
Southbound								
L	259	1668	0.05	0.16	32.4	C	26.6	C
R	398	1493	0.18	0.27	25.5	C		
Intersection Delay = 22.9			(sec/veh)		Intersection LOS = C			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMBD11 - WITH TIMING IMPROVEMENTS
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & STRANG BLVD
 Area Type: All other areas
 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Year :
 N/S St: STRANG BOULEVARD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	0	0	1	0	1
LGConfig	L	T			TR					L		R
Volume	150	777		686	17					4		144
Lane Width	12.0	13.0		11.0						10.0		10.0
RTOR Vol					1							80

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left			
Thru		A	P		Thru			
Right					Right			
Peds					Peds			
WB Left					SB Left	A		
Thru			P		Thru			
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right		A			WB Right			
Green		10.0	40.0			25.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	387	1823	0.42	0.62	12.6	B		
T	1186	1906	0.71	0.62	25.2	C	23.2	C
Westbound								
TR	801	1758	0.95	0.46	45.7	D	45.7	D
Northbound								
Southbound								
L	482	1668	0.01	0.29	22.8	C	14.5	B
R	680	1493	0.10	0.46	14.0	B		
Intersection Delay = 32.1 (sec/veh)					Intersection LOS = C			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD

Agency: JCE

Date: 02/04/2011

Period: PM PEAK HOUR

Project ID: 1646PMBD11 - WITH TIMING IMPROVEMENTS

E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & STRANG BLVD

Area Type: All other areas

Jurisd: 2013 BUILD TRAFFIC VOLUMES

Year :

N/S St: STRANG BOULEVARD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	0	0	1	0	1
LGConfig	L	T			TR					L		R
Volume	190	1142			899	16				28		123
Lane Width	12.0	13.0			11.0					10.0		10.0
RTOR Vol						0						27

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left			
Thru		A	P		Thru			
Right					Right			
Peds					Peds			
WB Left					SB Left	A		
Thru			P		Thru			
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right		A			WB Right			
Green		9.0	49.0			17.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	396	1823	0.52	0.71	9.5	A		
T	1355	1906	0.92	0.71	14.2	B	13.5	B
Westbound								
TR	977	1759	1.02	0.56	53.2	D	53.2	D
Northbound								
Southbound								
L	334	1668	0.09	0.20	29.4	C	22.3	C
R	531	1493	0.20	0.36	20.2	C		
Intersection Delay = 29.3 (sec/veh)					Intersection LOS = C			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD

Inter.: ROUTE 202/35 & STRANG BLVD

Agency: JCE

Area Type: All other areas

Date: 02/04/2010

Jurisd: 2013 BUILD TRAFFIC VOLUMES

Period: SATURDAY PEAK HOUR

Year :

Project ID: 1646SATBD11 - WITH TIMING IMPROVEMENTS

E/W St: ROUTE 202/35

N/S St: STRANG BOULEVARD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	0	0	1	0	1
LGConfig	L	T			TR					L		R
Volume	153	1049			1062	33				12		93
Lane Width	12.0	13.0			11.0					10.0		10.0
RTOR Vol						1						19

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left			
Thru		A	P		Thru			
Right					Right			
Peds					Peds			
WB Left					SB Left	A		
Thru			P		Thru			
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right		A			WB Right			
Green		5.0	57.0			13.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/c	Delay	LOS	Delay	LOS
Eastbound								
L	345	1823	0.47	0.76	7.2	A		
T	1440	1906	0.77	0.76	11.5	B	11.0	B
Westbound								
TR	1132	1756	1.03	0.64	50.2	D	50.2	D
Northbound								
Southbound								
L	259	1668	0.05	0.16	32.4	C	26.6	C
R	398	1493	0.21	0.27	25.7	C		
Intersection Delay = 29.7 (sec/veh)					Intersection LOS = C			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMEX12
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & NYS ROUTE 132
 Area Type: All other areas
 Jurisd:
 Year : 2010 EXISTING TRAFFIC VOLUMES
 N/S St: NYS ROUTE 132/DOWNING PARK

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	1	0	0	1	0
LGConfig	L	TR			LTR			LTR			LTR	
Volume	80	632	0	0	495	130	0	1	0	224	0	146
Lane Width	11.0	12.0			15.0			12.0			11.0	
RTOR Vol			0			12			0			36

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru		A			Thru	A		
Right					Right			
Peds					Peds			
WB Left			P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	4.0	24.0			24.0			
Yellow	5.0	5.0			5.0			
All Red	1.0	1.0			1.0			

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	254	1736	0.34	0.51	14.0	B		
TR	946	1839	0.73	0.51	15.6	B	15.4	B
Westbound								
LTR	724	1949	0.92	0.37	36.9	D	36.9	D
Northbound								
LTR	692	1863	0.00	0.37	13.8	B	13.8	B
Southbound								
LTR	503	1354	0.74	0.37	24.0	C	24.0	C

Intersection Delay = 25.1 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 1/18/2011
 Period: PM PEAK HOUR
 Project ID: 1646PMEX12
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & NYS ROUTE 132
 Area Type: All other areas
 Jurisd:
 Year : 2010 EXISTING TRAFFIC VOLUMES
 N/S St: ROUTE 132/DOWNING PARK

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	1	0	0	1	0
LGConfig	L	TR			LTR			LTR			LTR	
Volume	199	768	4	0	643	251	1	1	3	157	2	85
Lane Width	11.0	12.0			15.0			12.0			11.0	
RTOR Vol			0			100			0			33

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru		A	P		Thru	A		
Right		A	P		Right	A		
Peds					Peds			
WB Left			P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	24.0			24.0		
Yellow		5.0	5.0			5.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	254	1736	0.86	0.51	38.8	D		
TR	945	1838	0.90	0.51	26.3	C	28.8	C
Westbound								
LTR	724	1950	1.18	0.37	113.9	F	113.9	F
Northbound								
LTR	611	1645	0.01	0.37	13.9	B	13.9	B
Southbound								
LTR	496	1336	0.47	0.37	17.0	B	17.0	B

Intersection Delay = 61.1 (sec/veh) Intersection LOS = E

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 1/18/2011
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATEX12
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & NYS ROUTE 132
 Area Type: All other areas
 Jurisd:
 Year : 2010 EXISTING TRAFFIC VOLUMES
 N/S St: NYS ROUTE 132/DOWNING PARK

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	1	0	0	1	0
LGConfig	L	TR			LTR			LTR			LTR	
Volume	167	704	8	3	725	197	5	2	6	186	4	131
Lane Width	11.0	12.0			15.0			12.0			11.0	
RTOR Vol			0			100			6			37

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru		A	P		Thru	A		
Right		A	P		Right	A		
Peds					Peds			
WB Left			P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	24.0			24.0		
Yellow		5.0	5.0			5.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	254	1736	0.72	0.51	22.6	C		
TR	945	1837	0.82	0.51	19.7	B	20.2	C
Westbound								
LTR	729	1962	1.20	0.37	124.4	F	124.4	F
Northbound								
LTR	575	1549	0.01	0.37	13.9	B	13.9	B
Southbound								
LTR	502	1352	0.63	0.37	19.9	B	19.9	B

Intersection Delay = 62.5 (sec/veh) Intersection LOS = E

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMNB12
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & NYS ROUTE 132
 Area Type: All other areas
 Jurisd:
 Year : 2013 NO-BUILD TRAFFIC VOLUMES
 N/S St: NYS ROUTE 231/DOWNING PARK

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	1	0	0	1	0
LGConfig	L	TR			LTR			LTR			LTR	
Volume	87	688	0	0	545	138	0	1	0	237	0	157
Lane Width	11.0	12.0			15.0			12.0			11.0	
RTOR Vol			0			12			0			36

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru		A	P		Thru	A		
Right					Right			
Peds					Peds			
WB Left			P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	24.0			24.0		
Yellow		5.0	5.0			5.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	254	1736	0.37	0.51	14.5	B		
TR	946	1839	0.79	0.51	18.1	B	17.7	B
Westbound								
LTR	724	1950	1.01	0.37	50.3	D	50.3	D
Northbound								
LTR	692	1863	0.00	0.37	13.8	B	13.8	B
Southbound								
LTR	504	1356	0.79	0.37	27.0	C	27.0	C

Intersection Delay = 31.7 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/11/11
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATNB12
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & NYS ROUTE 132
 Area Type: All other areas
 Jurisd:
 Year : 2013 NO-BUILD TRAFFIC VOLUMES
 N/S St: NYS ROUTE 132/DOWNING PARK

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	1	0	0	1	0
LGConfig	L	TR			LTR			LTR			LTR	
Volume	183	805	8	3	828	209	5	2	6	197	4	145
Lane Width	11.0	12.0			15.0			12.0			11.0	
RTOR Vol			0			100			6			39

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru		A	P		Thru	A		
Right		A	P		Right	A		
Peds					Peds			
WB Left			P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	24.0			24.0		
Yellow		5.0	5.0			5.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	254	1736	0.80	0.51	35.3	D		
TR	945	1837	0.96	0.51	55.0+	E	51.4	D
Westbound								
LTR	729	1962	1.37	0.37	196.1	F	196.1	F
Northbound								
LTR	572	1539	0.01	0.37	13.9	B	13.9	B
Southbound								
LTR	503	1355	0.68	0.37	21.5	C	21.5	C

Intersection Delay = 106.1 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMBD12
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & NYS ROUTE 132
 Area Type: All other areas
 Jurisd:
 Year : 2013 BUILD TRAFFIC VOLUMES
 N/S St: NYS ROUTE 132/DOWNING PARK

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	1	0	0	1	0
LGConfig	L	TR			LTR			LTR			LTR	
Volume	88	693	0	0	557	138	0	1	0	237	0	159
Lane Width	11.0	12.0			15.0			12.0			11.0	
RTOR Vol			0			12			0			37

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru		A	P		Thru	A		
Right					Right			
Peds					Peds			
WB Left			P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	24.0			24.0		
Yellow		5.0	5.0			5.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	254	1736	0.38	0.51	14.4	B		
TR	946	1839	0.80	0.51	18.4	B	18.0	B
Westbound								
LTR	725	1951	1.02	0.37	54.3	D	54.3	D
Northbound								
LTR	692	1863	0.00	0.37	13.8	B	13.8	B
Southbound								
LTR	504	1357	0.79	0.37	27.3	C	27.3	C

Intersection Delay = 33.4 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/04/2011
 Period: PM PEAK HOUR
 Project ID: 1646PMBD12
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & NYS ROUTE 132
 Area Type: All other areas
 Jurisd:
 Year : 2013 BUILD TRAFFIC VOLUMES
 N/S St: NYS ROUTE 132/DOWNING PARK

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	1	0	0	1	0
LGConfig	L	TR			LTR			LTR			LTR	
Volume	225	940	4	0	810	266	1	1	3	166	2	104
Lane Width	11.0	12.0			15.0			12.0			11.0	
RTOR Vol			0			103			0			38

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru		A	P		Thru	A		
Right		A	P		Right	A		
Peds					Peds			
WB Left			P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	24.0			24.0		
Yellow		5.0	5.0			5.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	254	1736	0.97	0.51	62.9	E		
TR	946	1839	1.10	0.51	76.2	E	73.6	E
Westbound								
LTR	726	1955	1.44	0.37	223.3	F	223.3	F
Northbound								
LTR	610	1642	0.01	0.37	13.9	B	13.9	B
Southbound								
LTR	499	1343	0.52	0.37	17.6	B	17.6	B

Intersection Delay = 128.2 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/04/2010
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATBD12
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & NYS ROUTE 132
 Area Type: All other areas
 Jurisd:
 Year : 2013 BUILD TRAFFIC VOLUMES
 N/S St: NYS ROUTE 132/DOWNING PARK

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	1	0	0	1	0
LGConfig	L	TR			LTR			LTR			LTR	
Volume	195	910	8	3	933	209	5	2	6	197	4	157
Lane Width	11.0	12.0			15.0			12.0			11.0	
RTOR Vol			0			100			6			42

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P	P		NB Left	A		
Thru		P	P		Thru	A		
Right		P	P		Right	A		
Peds					Peds			
WB Left			P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	4.0	24.0				24.0		
Yellow	5.0	5.0				5.0		
All Red	1.0	1.0				1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	254	1736	0.83	0.51	41.3	D		
TR	945	1837	1.06	0.51	62.2	E	58.6	E
Westbound								
LTR	730	1965	1.52	0.37	262.4	F	262.4	F
Northbound								
LTR	570	1535	0.01	0.37	13.9	B	13.9	B
Southbound								
LTR	505	1360	0.70	0.37	22.1	C	22.1	C

Intersection Delay = 138.2 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & NYS ROUTE 132
 Agency: JCE Area Type: All other areas
 Date: 2/11/11 Jurisd:
 Period: PM PEAK HOUR Year : 2013 NO-BUILD TRAFFIC VOLUMES
 Project ID: 1646PMNB12 - WITH TIMING IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: NYS ROUTE 132/DOWNING PARK

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	1	0	0	1	0
LGConfig	L	TR			LTR			LTR			LTR	
Volume	217	876	4	0	745	266	1	1	3	166	2	97
Lane Width	11.0	12.0			15.0			12.0			11.0	
RTOR Vol			0			100			0			35

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru		A	P		Thru	A		
Right		A	P		Right	A		
Peds					Peds			
WB Left			P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	33.0			15.0		
Yellow		5.0	5.0			5.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	258	1736	0.92	0.65	49.3	D		
TR	1182	1838	0.82	0.64	13.7	B	20.8	C
Westbound								
LTR	956	1951	1.02	0.49	55.5	E	55.5	E
Northbound								
LTR	368	1608	0.01	0.23	20.9	C	20.9	C
Southbound								
LTR	306	1340	0.83	0.23	42.4	D	42.4	D

Intersection Delay = 36.9 (sec/veh) Intersection LOS = D

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & NYS ROUTE 132
 Agency: JCE Area Type: All other areas
 Date: 2/11/11 Jurisd:
 Period: SATURDAY PEAK HOUR Year : 2013 NO-BUILD TRAFFIC VOLUMES
 Project ID: 1646SATNB12 - WITH TIMING IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: NYS ROUTE 132/DOWNING PARK

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	1	0	0	1	0
LGConfig	L	TR			LTR			LTR			LTR	
Volume	183	805	8	3	828	209	5	2	6	197	4	145
Lane Width	11.0	12.0			15.0			12.0			11.0	
RTOR Vol			0			100			6			39

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru		A	P		Thru	A		
Right		A	P		Right	A		
Peds					Peds			
WB Left			P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	30.0			18.0		
Yellow		5.0	5.0			5.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	253	1736	0.80	0.60	30.1	C		
TR	1102	1837	0.82	0.60	19.7	B	21.6	C
Westbound								
LTR	878	1963	1.15	0.45	97.5	F	97.5	F
Northbound								
LTR	428	1497	0.02	0.29	18.0	B	18.0	B
Southbound								
LTR	387	1355	0.88	0.29	43.6	D	43.6	D

Intersection Delay = 55.7 (sec/veh) Intersection LOS = E

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & NYS ROUTE 132
 Agency: JCE Area Type: All other areas
 Date: 02/04/2011 Jurisd:
 Period: PM PEAK HOUR Year : 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646PMBD12 - WITH TIMING IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: NYS ROUTE 132/DOWNING PARK

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	1	0	0	1	0
LGConfig	L	TR			LTR			LTR			LTR	
Volume	225	940	4	0	810	266	1	1	3	166	2	104
Lane Width	11.0	12.0			15.0			12.0			11.0	
RTOR Vol			0			103			0			38

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru		A	P		Thru	A		
Right		A	P		Right	A		
Peds					Peds			
WB Left			P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	33.0			15.0		
Yellow		5.0	5.0			5.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	265	1736	0.93	0.64	51.9	D		
TR	1182	1839	0.88	0.64	17.7	B	24.3	C
Westbound								
LTR	978	1955	1.07	0.50	57.0	E	57.0	E
Northbound								
LTR	392	1614	0.01	0.24	20.1	C	20.1	C
Southbound								
LTR	326	1343	0.79	0.24	36.6	D	36.6	D

Intersection Delay = 38.7 (sec/veh) Intersection LOS = D

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & NYS ROUTE 132
 Agency: JCE Area Type: All other areas
 Date: 02/04/2010 Jurisd:
 Period: SATURDAY PEAK HOUR Year : 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646SATBD12 - WITH TIMING IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: NYS ROUTE 132/DOWNING PARK

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	1	0	0	1	0
LGConfig	L	TR			LTR			LTR			LTR	
Volume	195	910	8	3	933	209	5	2	6	197	4	157
Lane Width	11.0	12.0			15.0			12.0			11.0	
RTOR Vol			0			100			6			42

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru		A	P		Thru	A		
Right		A	P		Right	A		
Peds					Peds			
WB Left			P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	4.0	30.0			18.0			
Yellow	5.0	5.0			5.0			
All Red	1.0	1.0			1.0			

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	253	1736	0.84	0.60	34.2	C		
TR	1102	1837	0.91	0.60	22.7	C	24.7	C
Westbound								
LTR	898	1965	1.24	0.46	133.4	F	133.4	F
Northbound								
LTR	430	1505	0.02	0.29	18.0	B	18.0	B
Southbound								
LTR	389	1360	0.90	0.29	47.1	D	47.1	D

Intersection Delay = 72.7 (sec/veh) Intersection LOS = E

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & NYS ROUTE 132
 Agency: JCE Area Type: All other areas
 Date: 02/15/2011 Jurisd:
 Period: AM PEAK HOUR Year : 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646AMNB12 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: NYS ROUTE 132/DOWNING PARK

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	1	0	0	1	1
LGConfig	L	TR			LTR			LTR			LT	R
Volume	87	688	0	0	545	138	0	1	0	237	0	157
Lane Width	11.0	12.0			15.0			12.0			11.0	12.0
RTOR Vol			0			11			0			129

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru		A	P		Thru	A		
Right					Right			
Peds					Peds			
WB Left			P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	24.0			24.0		
Yellow		5.0	5.0			5.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	254	1736	0.37	0.51	14.5	B		
TR	946	1839	0.79	0.51	18.1	B	17.7	B
Westbound								
LTR	724	1950	1.01	0.37	50.2	D	50.2	D
Northbound								
LTR	692	1863	0.00	0.37	13.8	B	13.8	B
Southbound								
LT	479	1289	0.55	0.37	18.1	B	17.7	B
R	580	1561	0.05	0.37	14.1	B		
Intersection Delay = 30.4 (sec/veh)					Intersection LOS = C			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & NYS ROUTE 132
 Agency: JCE Area Type: All other areas
 Date: 02/15/2011 Jurisd:
 Period: AM PEAK HOUR Year : 2013 NO-BUILD TRAFFIC VOLUMES
 Project ID: 1646AMNB12 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: NYS ROUTE 132/DOWNING PARK

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	1	0	0	1	1
LGConfig	L	TR			LTR			LTR			LT	R
Volume	87	688	0	0	545	138	0	1	0	237	0	157
Lane Width	11.0	12.0			15.0			12.0			11.0	12.0
RTOR Vol			0			11			0			129

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru		A	P		Thru	A		
Right					Right			
Peds					Peds			
WB Left			P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	24.0			24.0		
Yellow		5.0	5.0			5.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	254	1736	0.37	0.51	14.5	B		
TR	946	1839	0.79	0.51	18.1	B	17.7	B
Westbound								
LTR	724	1950	1.01	0.37	50.2	D	50.2	D
Northbound								
LTR	692	1863	0.00	0.37	13.8	B	13.8	B
Southbound								
LT	479	1289	0.55	0.37	18.1	B	17.7	B
R	580	1561	0.05	0.37	14.1	B		
Intersection Delay = 30.4 (sec/veh)					Intersection LOS = C			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & NYS ROUTE 132
 Agency: JCE Area Type: All other areas
 Date: 02/04/2011 Jurisd:
 Period: PM PEAK HOUR Year : 2013 NO-BUILD TRAFFIC VOLUMES
 Project ID: 1646PMNB12 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: NYS ROUTE 132/DOWNING PARK

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	1	0	0	1	1
LGConfig	L	TR			LTR			LTR			LT	R
Volume	217	876	4	0	745	266	1	1	3	166	2	97
Lane Width	11.0	12.0			15.0			12.0			11.0	12.0
RTOR Vol			0			103			0			94

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru		A	P		Thru	A		
Right		A	P		Right	A		
Peds					Peds			
WB Left			P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	5.0	34.0			13.0			
Yellow	5.0	5.0			5.0			
All Red	1.0	1.0			1.0			

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	279	1736	0.85	0.67	38.0	D		
TR	1234	1838	0.78	0.67	11.1	B	16.4	B
Westbound								
LTR	1004	1952	0.97	0.51	32.8	C	32.8	C
Northbound								
LTR	348	1622	0.01	0.21	21.7	C	21.7	C
Southbound								
LT	276	1288	0.67	0.21	30.5	C	30.3	C
R	335	1561	0.01	0.21	21.7	C		
Intersection Delay = 24.2 (sec/veh)					Intersection LOS = C			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & NYS ROUTE 132
 Agency: JCE Area Type: All other areas
 Date: 2/13/2011 Jurisd:
 Period: SATURDAY PEAK HOUR Year : 2013 NO-BUILD TRAFFIC VOLUMES
 Project ID: 1646SATNB12 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: NYS ROUTE 132/DOWNING PARK

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	1	0	0	1	1
LGConfig	L	TR			LTR			LTR			LT	R
Volume	183	805	8	3	828	209	5	2	6	197	4	145
Lane Width	11.0	12.0			15.0			12.0			11.0	12.0
RTOR Vol			0			103			0			145

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru		A	P		Thru	A		
Right		A	P		Right	A		
Peds					Peds			
WB Left			P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	35.0			13.0		
Yellow		5.0	5.0			5.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	292	1736	0.70	0.67	20.4	C		
TR	1233	1837	0.73	0.67	10.1	B	12.0	B
Westbound								
LTR	1049	1964	0.95	0.53	28.3	C	28.3	C
Northbound								
LTR	309	1442	0.05	0.21	21.9	C	21.9	C
Southbound								
LT	274	1277	0.81	0.21	42.0	D	42.0	D
R	335	1561	0.00	0.21	21.6	C		
Intersection Delay = 21.8 (sec/veh)					Intersection LOS = C			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & NYS ROUTE 132
 Agency: JCE Area Type: All other areas
 Date: 02/15/2011 Jurisd:
 Period: AM PEAK HOUR Year : 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646AMBD12 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: NYS ROUTE 132/DOWNING PARK

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	1	0	0	1	1
LGConfig	L	TR			LTR			LTR			LT	R
Volume	88	693	0	0	557	138	0	1	0	237	0	159
Lane Width	11.0	12.0			15.0			12.0			11.0	12.0
RTOR Vol			0			11			0			129

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru		A	P		Thru	A		
Right					Right			
Peds					Peds			
WB Left			P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	4.0	24.0			24.0			
Yellow	5.0	5.0			5.0			
All Red	1.0	1.0			1.0			

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	254	1736	0.38	0.51	14.4	B		
TR	946	1839	0.80	0.51	18.4	B	18.0	B
Westbound								
LTR	725	1951	1.02	0.37	54.7	D	54.7	D
Northbound								
LTR	692	1863	0.00	0.37	13.8	B	13.8	B
Southbound								
LT	479	1289	0.55	0.37	18.1	B	17.7	B
R	580	1561	0.06	0.37	14.1	B		

Intersection Delay = 32.4 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & NYS ROUTE 132
 Agency: JCE Area Type: All other areas
 Date: 02/04/2011 Jurisd:
 Period: PM PEAK HOUR Year : 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646PMBD12 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: NYS ROUTE 132/DOWNING PARK

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	1	0	0	1	1
LGConfig	L	TR			LTR			LTR			LT	R
Volume	225	940	4	0	810	266	1	1	3	166	2	104
Lane Width	11.0	12.0			15.0			12.0			11.0	12.0
RTOR Vol			0			103			0			94

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru		A	P		Thru	A		
Right		A	P		Right	A		
Peds					Peds			
WB Left			P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		5.0	34.0			13.0		
Yellow		5.0	5.0			5.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	279	1736	0.89	0.67	44.2	D		
TR	1235	1839	0.84	0.67	13.7	B	19.6	B
Westbound								
LTR	1005	1955	1.04	0.51	50.6	D	50.6	D
Northbound								
LTR	348	1622	0.01	0.21	21.7	C	21.7	C
Southbound								
LT	276	1288	0.67	0.21	30.5	C	30.0	C
R	335	1561	0.03	0.21	21.8	C		
Intersection Delay = 33.2 (sec/veh)					Intersection LOS = C			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & NYS ROUTE 132
 Agency: JCE Area Type: All other areas
 Date: 2/13/2011 Jurisd:
 Period: SATURDAY PEAK HOUR Year : 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646SATBD12 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: NYS ROUTE 132/DOWNING PARK

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	0	1	0	0	1	0	0	1	1
LGConfig	L	TR			LTR			LTR			LT	R
Volume	195	910	8	3	933	209	5	2	6	197	4	157
Lane Width	11.0	12.0			15.0			12.0			11.0	12.0
RTOR Vol			0			103			0			145

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru		A	P		Thru	A		
Right		A	P		Right	A		
Peds					Peds			
WB Left			P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	35.0			13.0		
Yellow		5.0	5.0			5.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	265	1736	0.80	0.67	29.7	C		
TR	1233	1837	0.81	0.67	12.1	B	15.2	B
Westbound								
LTR	1050	1966	1.06	0.53	54.8	D	54.8	D
Northbound								
LTR	309	1442	0.05	0.21	21.9	C	21.9	C
Southbound								
LT	274	1277	0.81	0.21	42.0	D	40.9	D
R	335	1561	0.04	0.21	21.8	C		
Intersection Delay = 34.7 (sec/veh)					Intersection LOS = C			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMEX13
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & SPRINGHURST ST
 Area Type: All other areas
 Jurisd: 2010 EXISTING TRAFFIC VOLUMES
 Year :
 N/S St: SPRINGHURST ST/HIGH SCHOOL

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	1	0	0	1	0
LGConfig	LTR			LTR			LTR			LTR		
Volume	2	704	150	155	558	20	53	10	13	72	42	14
Lane Width	15.0			15.0			11.0			14.0		
RTOR Vol	8			1			11			7		

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P			NB Left	A		
Thru		P			Thru	A		
Right		P			Right	A		
Peds					Peds	X		
WB Left		P			SB Left	A		
Thru		P			Thru	A		
Right		P			Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green	44.0				15.0			
Yellow	5.0				4.0			
All Red	1.0				1.0			

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/c	Delay	LOS	Delay	LOS

Eastbound

LTR 1310 1994 0.70 0.66 5.4 A 5.4 A

Westbound

LTR 877 1335 0.91 0.66 17.3 B 17.3 B

Northbound

LTR 300 1312 0.24 0.23 22.2 C 22.2 C

Southbound

LTR 365 1599 0.37 0.23 23.0 C 23.0 C

Intersection Delay = 12.2 (sec/veh) Intersection LOS = B

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 1/18/2011
 Period: PM PEAK HOUR
 Project ID: 1646PMEX13
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & SPRINGHURST STRE
 Area Type: All other areas
 Jurisd: 2010 EXISTING TRAFFIC VOLUMES
 Year :
 N/S St: HIGH SCHOOL DRWY.

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	1	0	0	1	0
LGConfig	LTR			LTR			LTR			LTR		
Volume	13	849	66	62	853	66	35	8	14	63	6	6
Lane Width	15.0			15.0			11.0			14.0		
RTOR Vol	3			3			0			5		

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P			NB Left	A		
Thru		P			Thru	A		
Right		P			Right	A		
Peds					Peds	X		
WB Left		P			SB Left	A		
Thru		P			Thru	A		
Right		P			Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green	44.0				15.0			
Yellow	5.0				4.0			
All Red	1.0				1.0			

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

LTR 1305 1986 0.77 0.66 6.5 A 6.5 A

Westbound

LTR 1138 1731 0.91 0.66 5.7 A 5.7 A

Northbound

LTR 316 1381 0.20 0.23 22.0 C 22.0 C

Southbound

LTR 339 1483 0.23 0.23 22.1 C 22.1 C

Intersection Delay = 7.2 (sec/veh) Intersection LOS = A

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 1/18/2011
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATEX13
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & SPRINGHURST ST
 Area Type: All other areas
 Jurisd: 2010 EXISTING TRAFFIC VOLUMES
 Year :
 N/S St: HIGH SCHOOL DRWY.

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	1	0	0	1	0
LGConfig	LTR			LTR			LTR			LTR		
Volume	18	842	36	49	883	73	28	7	33	59	8	14
Lane Width	15.0			15.0			11.0			14.0		
RTOR Vol	1			3			0			12		

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left	P				NB Left	A		
Thru	P				Thru	A		
Right	P				Right	A		
Peds					Peds	X		
WB Left	P				SB Left	A		
Thru	P				Thru	A		
Right	P				Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green	44.0				15.0			
Yellow	5.0				4.0			
All Red	1.0				1.0			

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

LTR 1295 1970 0.74 0.66 5.3 A 5.3 A

Westbound

LTR 1178 1793 0.92 0.66 11.3 B 11.3 B

Northbound

LTR 329 1438 0.23 0.23 22.1 C 22.1 C

Southbound

LTR 341 1490 0.23 0.23 22.1 C 22.1 C

Intersection Delay = 9.4 (sec/veh) Intersection LOS = A

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMNB13
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & SPRINGHURST ST
 Area Type: All other areas
 Jurisd: 2013 NO-BUILD TRAFFIC VOLUMES
 Year :
 N/S St: SPRINGHURST ST/HIGH SCHOOL

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	1	0	0	1	0
LGConfig	LTR			LTR			LTR			LTR		
Volume	3	764	159	164	611	21	56	11	14	76	45	15
Lane Width	15.0			15.0			11.0			14.0		
RTOR Vol	8			1			11			7		

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P			NB Left	A		
Thru		P			Thru	A		
Right		P			Right	A		
Peds					Peds	X		
WB Left		P			SB Left	A		
Thru		P			Thru	A		
Right		P			Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green	44.0				15.0			
Yellow	5.0				4.0			
All Red	1.0				1.0			

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

LTR 1310 1993 0.76 0.66 6.3 A 6.3 A

Westbound

LTR 852 1296 1.01 0.66 37.0 D 37.0 D

Northbound

LTR 296 1296 0.26 0.23 22.3 C 22.3 C

Southbound

LTR 366 1603 0.39 0.23 23.1 C 23.1 C

Intersection Delay = 20.8 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/11/11
 Period: PM PEAK HOUR
 Project ID: 1646PMNB13
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & SPRINGHURST ST
 Area Type: All other areas
 Jurisd: 2013 NO-BUILD TRAFFIC VOLUMES
 Year :
 N/S St: SPRINGHURST/HIGH SCHOOL DRWY.

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	1	0	0	1	0
LGConfig	LTR			LTR			LTR			LTR		
Volume	15	960	70	66	966	70	37	8	15	67	6	8
Lane Width	15.0			15.0			11.0			14.0		
RTOR Vol	3			3			0			6		

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P			NB Left	A		
Thru		P			Thru	A		
Right		P			Right	A		
Peds					Peds	X		
WB Left		P			SB Left	A		
Thru		P			Thru	A		
Right		P			Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green	44.0				15.0			
Yellow	5.0				4.0			
All Red	1.0				1.0			

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

LTR 1300 1979 0.87 0.66 8.7 A 8.7 A

Westbound

LTR 1122 1708 1.04 0.66 26.9 C 26.9 C

Northbound

LTR 314 1372 0.21 0.23 22.0 C 22.0 C

Southbound

LTR 336 1472 0.25 0.23 22.2 C 22.2 C

Intersection Delay = 18.2 (sec/veh) Intersection LOS = B

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/11/11
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATNB13
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & SPRINGHURST ST
 Area Type: All other areas
 Jurisd: 2013 NO-BUILD TRAFFIC VOLUMES
 Year :
 N/S St: SPRINGHURST ST/HIGH SCHOOL

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	1	0	0	1	0
LGConfig	LTR			LTR			LTR			LTR		
Volume	21	950	38	52	994	77	30	7	35	63	8	16
Lane Width	15.0			15.0			11.0			14.0		
RTOR Vol	1			3			0			13		

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P			NB Left	A		
Thru		P			Thru	A		
Right		P			Right	A		
Peds					Peds	X		
WB Left		P			SB Left	A		
Thru		P			Thru	A		
Right		P			Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green	44.0				15.0			
Yellow	5.0				4.0			
All Red	1.0				1.0			

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

LTR 1286 1957 0.83 0.66 6.0 A 6.0 A

Westbound

LTR 1166 1774 1.04 0.66 27.6 C 27.6 C

Northbound

LTR 327 1429 0.24 0.23 22.2 C 22.2 C

Southbound

LTR 337 1476 0.24 0.23 22.2 C 22.2 C

Intersection Delay = 17.8 (sec/veh) Intersection LOS = B

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMBD13
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & SPRINGHURST ST
 Area Type: All other areas
 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Year :
 N/S St: SPRINGHURST ST/HIGH SCHOOL

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	1	0	0	1	0
LGConfig	LTR			LTR			LTR			LTR		
Volume	3	769	159	164	622	21	56	11	14	76	45	16
Lane Width	15.0			15.0			11.0			14.0		
RTOR Vol	8			1			11			7		

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P			NB Left	A		
Thru		P			Thru	A		
Right		P			Right	A		
Peds					Peds	X		
WB Left		P			SB Left	A		
Thru		P			Thru	A		
Right		P			Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green	44.0				15.0			
Yellow	5.0				4.0			
All Red	1.0				1.0			

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

LTR 1310 1993 0.77 0.66 6.4 A 6.4 A

Westbound

LTR 854 1299 1.03 0.66 34.4 C 34.4 C

Northbound

LTR 296 1294 0.26 0.23 22.3 C 22.3 C

Southbound

LTR 366 1603 0.39 0.23 23.1 C 23.1 C

Intersection Delay = 19.8 (sec/veh) Intersection LOS = B

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/04/2011
 Period: PM PEAK HOUR
 Project ID: 1646PMBD13
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & SPRINGHURST ST
 Area Type: All other areas
 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Year :
 N/S St: SPRINGHURST ST/HIGH SCHOOL

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	1	0	0	1	0
LGConfig	LTR			LTR			LTR			LTR		
Volume	18	1022	70	66	1029	70	37	8	15	67	6	10
Lane Width	15.0			15.0			11.0			14.0		
RTOR Vol	3			2			0			9		

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P			NB Left	A		
Thru		P			Thru	A		
Right		P			Right	A		
Peds					Peds	X		
WB Left		P			SB Left	A		
Thru		P			Thru	A		
Right		P			Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green	44.0				15.0			
Yellow	5.0				4.0			
All Red	1.0				1.0			

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

LTR 1291 1964 0.93 0.66 11.4 B 11.4 B

Westbound

LTR 1118 1702 1.11 0.66 55.0+ E 55.0+ E

Northbound

LTR 314 1373 0.21 0.23 22.0 C 22.0 C

Southbound

LTR 336 1469 0.24 0.23 22.2 C 22.2 C

Intersection Delay = 32.9 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/04/2010
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATBD13
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & SPRINGHURST ST
 Area Type: All other areas
 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Year :
 N/S St: SPRINGHURST ST/HIGH SCHOOL

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	1	0	0	1	0
LGConfig	LTR			LTR			LTR			LTR		
Volume	24	1051	38	52	1095	77	30	7	35	63	8	20
Lane Width	15.0			15.0			11.0			14.0		
RTOR Vol	1			2			0			17		

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left	P				NB Left	A		
Thru	P				Thru	A		
Right	P				Right	A		
Peds					Peds	X		
WB Left	P				SB Left	A		
Thru	P				Thru	A		
Right	P				Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green	44.0				15.0			
Yellow	5.0				4.0			
All Red	1.0				1.0			

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

LTR 1274 1938 0.93 0.66 6.0 A 6.0 A

Westbound

LTR 1203 1773 1.10 0.68 54.1 D 54.1 D

Northbound

LTR 327 1429 0.24 0.23 22.2 C 22.2 C

Southbound

LTR 337 1476 0.24 0.23 22.2 C 22.2 C

Intersection Delay = 30.9 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMEX14
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & GRANITE SPRINGS
 Area Type: All other areas
 Jurisd: 2010 EXISTING TRAFFIC VOLUMES
 Year :
 N/S St: GRANITE SPRINGS/MIDDLE SCHOOL

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	1	1	0	0	1	0	0	1	1
LGConfig	L	TR		L	TR			LTR			LT	R
Volume	100	659	30	135	386	55	35	83	177	142	82	312
Lane Width	11.0	11.0		11.0	11.0			11.0			12.0	12.0
RTOR Vol			2			7			77			268

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A	P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	34.0			15.0		
Yellow		5.0	5.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	508	1736	0.21	0.66	5.6	A		
TR	917	1783	0.81	0.51	20.6	C	18.7	B
Westbound								
L	304	1711	0.48	0.66	10.2	B		
TR	895	1741	0.53	0.51	13.6	B	12.8	B
Northbound								
LTR	237	1039	1.02	0.23	91.0	F	91.0	F
Southbound								
LT	231	1010	1.08	0.23	108.5	F	94.2	F
R	365	1599	0.13	0.23	21.5	C		

Intersection Delay = 36.7 (sec/veh) Intersection LOS = D

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 1/18/2011
 Period: PM PEAK HOUR
 Project ID: 1646PMEX14
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & GRANITE SPRINGS
 Area Type: All other areas
 Jurisd: 2010 EXISTING TRAFFIC VOLUMES
 Year :
 N/S St: MIDDLE SCHOOL DRWY.

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	1	1	0	0	1	0	0	1	1
LGConfig	L	TR		L	TR			LTR			LT	R
Volume	257	667	2	25	805	140	16	33	54	107	7	160
Lane Width	11.0	11.0		11.0	11.0			11.0			12.0	12.0
RTOR Vol			0			9			0			150

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A			SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	34.0			15.0		
Yellow		5.0	5.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/c	Delay	LOS	Delay	LOS
Eastbound								
L	254	1736	1.09	0.66	93.8	F		
TR	922	1792	0.78	0.51	18.7	B	39.5	D
Westbound								
L	322	1711	0.08	0.66	8.0	A		
TR	892	1734	1.14	0.51	93.6	F	91.4	F
Northbound								
LTR	358	1568	0.32	0.23	22.7	C	22.7	C
Southbound								
LT	283	1240	0.45	0.23	23.6	C	23.4	C
R	365	1599	0.03	0.23	21.0	C		
Intersection Delay = 61.3 (sec/veh)					Intersection LOS = E			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 1/18/2011
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATEX14
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & GRANITE SPRINGS
 Area Type: All other areas
 Jurisd: 2010 EXISTING TRAFFIC VOLUMES
 Year :
 N/S St: MIDDLE SCHOOL DRWY.

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	1	1	0	0	1	0	0	1	1
LGConfig	L	TR		L	TR			LTR			LT	R
Volume	200	731	3	10	723	111	14	33	56	119	8	268
Lane Width	11.0	11.0		11.0	11.0			11.0			12.0	12.0
RTOR Vol			0			8			0			193

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A			SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	34.0			15.0		
Yellow		5.0	5.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	254	1736	0.85	0.66	36.4	D		
TR	922	1792	0.87	0.51	27.7	C	29.6	C
Westbound								
L	250	1711	0.04	0.66	10.3	B		
TR	893	1737	1.01	0.51	48.5	D	48.0	D
Northbound								
LTR	359	1572	0.32	0.23	22.7	C	22.7	C
Southbound								
LT	283	1239	0.50	0.23	24.0	C	23.3	C
R	365	1599	0.22	0.23	22.1	C		
Intersection Delay = 36.0 (sec/veh)					Intersection LOS = D			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMNB14
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & GRANITE SPRINGS
 Area Type: All other areas
 Jurisd: 2013 NO-BUILD TRAFFIC VOLUMES
 Year :
 N/S St: GRANITE SPRINGS/MIDDLE SCHOOL

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	1	1	0	0	1	0	0	1	1
LGConfig	L	TR		L	TR			LTR			LT	R
Volume	111	712	32	143	424	58	37	88	188	151	87	335
Lane Width	11.0	11.0		11.0	11.0			11.0			12.0	12.0
RTOR Vol			2			7			77			268

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru			P		Thru	A		
Right				P	Right	A		
Peds					Peds	X		
WB Left		A			SB Left	A		
Thru			P		Thru	A		
Right				P	Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	34.0			15.0		
Yellow		5.0	5.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	474	1736	0.26	0.66	6.1	A		
TR	917	1783	0.88	0.51	24.9	C	22.5	C
Westbound								
L	262	1711	0.59	0.66	14.1	B		
TR	895	1741	0.58	0.51	14.4	B	14.4	B
Northbound								
LTR	220	961	1.19	0.23	148.9	F	148.9	F
Southbound								
LT	219	956	1.21	0.23	156.2	F	126.9	F
R	365	1599	0.20	0.23	21.9	C		
Intersection Delay = 51.1 (sec/veh)					Intersection LOS = D			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/11/11
 Period: PM PEAK HOUR
 Project ID: 1646PMNB14
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & GRANITE SPRINGS
 Area Type: All other areas
 Jurisd: 2013 NO-BUILD TRAFFIC VOLUMES
 Year :
 N/S St: GRANITE SPRINGS/MIDDLE SCHOOL

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	1	1	0	0	1	0	0	1	1
LGConfig	L	TR		L	TR			LTR			LT	R
Volume	284	755	2	27	903	148	17	35	57	113	7	182
Lane Width	11.0	11.0		11.0	11.0			11.0			12.0	12.0
RTOR Vol			0			8			0			156

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A			SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	34.0			15.0		
Yellow		5.0	5.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	254	1736	1.20	0.66	132.1	F		
TR	922	1792	0.88	0.51	23.2	C	52.9	D
Westbound								
L	257	1711	0.11	0.66	10.1	B		
TR	892	1735	1.27	0.51	147.9	F	144.5	F
Northbound								
LTR	358	1565	0.34	0.23	22.8	C	22.8	C
Southbound								
LT	278	1215	0.48	0.23	23.9	C	23.4	C
R	365	1599	0.08	0.23	21.2	C		
Intersection Delay = 91.1 (sec/veh)					Intersection LOS = F			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/11/11
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATNB14
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & GRANITE SPRINGS
 Area Type: All other areas
 Jurisd: 2013 NO-BUILD TRAFFIC VOLUMES
 Year :
 N/S St: GRANITE SPRINGS/MIDDLE SCHOOL

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	1	1	0	0	1	0	0	1	1
LGConfig	L	TR		L	TR			LTR			LT	R
Volume	223	821	3	11	813	118	15	35	59	126	8	295
Lane Width	11.0	11.0		11.0	11.0			11.0			12.0	12.0
RTOR Vol			0			7			0			167

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A			SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	34.0			15.0		
Yellow		5.0	5.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	254	1736	0.95	0.66	55.4	E		
TR	922	1792	0.97	0.51	40.2	D	43.5	D
Westbound								
L	250	1711	0.05	0.66	12.6	B		
TR	894	1738	1.12	0.51	87.4	F	86.5	F
Northbound								
LTR	359	1569	0.34	0.23	22.8	C	22.8	C
Southbound								
LT	277	1211	0.53	0.23	24.7	C	23.9	C
R	365	1599	0.39	0.23	23.1	C		
Intersection Delay = 57.3			(sec/veh)		Intersection LOS = E			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMBD14
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & GRANITE SPRINGS
 Area Type: All other areas
 Jurisd: 2013 NO-BUILD TRAFFIC VOLUMES
 Year :
 N/S St: GRANITE SPRINGS/MIDDLE SCHOOL

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	1	1	0	0	1	0	0	1	1
LGConfig	L	TR		L	TR			LTR			LT	R
Volume	111	712	32	143	424	58	37	88	188	151	87	335
Lane Width	11.0	11.0		11.0	11.0			11.0			12.0	12.0
RTOR Vol			2			7			77			268

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A			SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	34.0			15.0		
Yellow		5.0	5.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	474	1736	0.26	0.66	6.1	A		
TR	917	1783	0.88	0.51	24.9	C	22.5	C
Westbound								
L	262	1711	0.59	0.66	14.1	B		
TR	895	1741	0.58	0.51	14.4	B	14.4	B
Northbound								
LTR	220	961	1.19	0.23	148.9	F	148.9	F
Southbound								
LT	219	956	1.21	0.23	156.2	F	126.9	F
R	365	1599	0.20	0.23	21.9	C		
Intersection Delay = 51.1 (sec/veh)					Intersection LOS = D			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/04/2011
 Period: PM PEAK HOUR
 Project ID: 1646PMBD14
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & GRANITE SPRINGS
 Area Type: All other areas
 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Year :
 N/S St: GRANITE SPRINGS/MIDDLE SCHOOL

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	1	1	0	0	1	0	0	1	1
LGConfig	L	TR		L	TR			LTR			LT	R
Volume	299	803	2	27	951	148	17	35	57	113	7	196
Lane Width	11.0	11.0		11.0	11.0			11.0			12.0	12.0
RTOR Vol			0			8			0			147

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left	A	P			NB Left	A		
Thru		P			Thru	A		
Right		P			Right	A		
Peds					Peds	X		
WB Left	A	P			SB Left	A		
Thru		P			Thru	A		
Right		P			Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green	4.4	34.0			15.0			
Yellow	5.0	5.0			4.0			
All Red	1.0	1.0			1.0			

Cycle Length: 70.4 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	262	1736	1.23	0.66	141.1	F		
TR	916	1792	0.94	0.51	28.7	C	59.2	E
Westbound								
L	258	1711	0.11	0.66	11.7	B		
TR	888	1736	1.34	0.51	175.9	F	172.0	F
Northbound								
LTR	356	1565	0.34	0.23	23.0	C	23.0	C
Southbound								
LT	276	1213	0.49	0.23	24.1	C	23.5	C
R	363	1599	0.15	0.23	21.8	C		
Intersection Delay = 105.6 (sec/veh)					Intersection LOS = F			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/04/2010
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATBD14
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & GRANITE SPRINGS
 Area Type: All other areas
 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Year :
 N/S St: GRANITE SPRINGS/MIDDLE SCHOOL

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	1	1	0	0	1	0	0	1	1
LGConfig	L	TR		L	TR			LTR			LT	R
Volume	246	899	3	11	891	118	15	35	59	126	8	319
Lane Width	11.0	11.0		11.0	11.0			11.0			12.0	12.0
RTOR Vol			0			7			0			150

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru			P		Thru	A		
Right				P	Right	A		
Peds					Peds	X		
WB Left		A			SB Left	A		
Thru			P		Thru	A		
Right				P	Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	34.0			15.0		
Yellow		5.0	5.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	254	1736	1.05	0.66	80.0-	E		
TR	922	1792	1.06	0.51	64.1	E	67.5	E
Westbound								
L	250	1711	0.05	0.66	13.3	B		
TR	895	1740	1.22	0.51	124.8	F	123.5	F
Northbound								
LTR	359	1569	0.34	0.23	22.8	C	22.8	C
Southbound								
LT	277	1211	0.53	0.23	24.7	C	24.4	C
R	365	1599	0.51	0.23	24.1	C		
Intersection Delay = 82.4 (sec/veh)					Intersection LOS = F			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & GRANITE SPRINGS
 Agency: JCE Area Type: All other areas
 Date: 2/15/2011 Jurisd: 2013 NO-BUILD TRAFFIC VOLUMES
 Period: AM PEAK HOUR Year :
 Project ID: 1646AMNB14 - WITH TIMING IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: GRANITE SPRINGS/MIDDLE SCHOOL

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	1	1	0	0	1	0	0	1	1
LGConfig	L	TR		L	TR			LTR			LT	R
Volume	111	712	32	143	424	58	37	88	188	151	87	335
Lane Width	11.0	11.0		11.0	11.0			11.0			12.0	12.0
RTOR Vol			2			7			77			268

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A	P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	30.0			19.0		
Yellow		5.0	5.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	405	1736	0.30	0.60	8.1	A		
TR	815	1783	0.99	0.46	44.9	D	40.1	D
Westbound								
L	250	1711	0.62	0.60	17.3	B		
TR	796	1741	0.65	0.46	18.7	B	18.4	B
Northbound								
LTR	372	1301	0.70	0.29	27.4	C	27.4	C
Southbound								
LT	303	1059	0.87	0.29	46.5	D	40.5	D
R	457	1599	0.16	0.29	18.8	B		
Intersection Delay = 32.0 (sec/veh)					Intersection LOS = C			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & GRANITE SPRINGS
 Agency: JCE Area Type: All other areas
 Date: 02/04/2011 Jurisd: 2013 NO-BUILD TRAFFIC VOLUMES
 Period: PM PEAK HOUR Year :
 Project ID: 1646PMNB14 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: GRANITE SPRINGS/MIDDLE SCHOOL

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	1	1	0	0	1	0	0	1	1
LGConfig	L	TR		L	TR			LTR			LT	R
Volume	284	755	2	27	903	148	17	35	57	113	7	182
Lane Width	11.0	11.0		11.0	11.0			11.0			12.0	12.0
RTOR Vol			0			8			0			147

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru			P		Thru	A		
Right				P	Right	A		
Peds					Peds	X		
WB Left		A			SB Left	A		
Thru			P		Thru	A		
Right				P	Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green		5.0	39.0			9.0		
Yellow		5.0	5.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	278	1736	1.10	0.74	92.2	F		
TR	1050	1792	0.78	0.59	14.2	B	35.5	D
Westbound								
L	365	1711	0.08	0.74	6.7	A		
TR	1016	1735	1.12	0.59	80.3	F	78.5	E
Northbound								
LTR	157	1098	0.77	0.14	47.7	D	47.7	D
Southbound								
LT	161	1124	0.83	0.14	57.2	E	50.3	D
R	228	1599	0.17	0.14	26.5	C		
Intersection Delay = 56.4 (sec/veh)					Intersection LOS = E			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & GRANITE SPRINGS
 Agency: JCE Area Type: All other areas
 Date: 02/04/2010 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Period: SATURDAY PEAK HOUR Year :
 Project ID: 1646SATNB14 - WITH TIMING IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: GRANITE SPRINGS/MIDDLE SCHOOL

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	1	1	0	0	1	0	0	1	1
LGConfig	L	TR		L	TR			LTR			LT	R
Volume	223	821	3	11	813	118	15	35	59	126	8	295
Lane Width	11.0	11.0		11.0	11.0			11.0			12.0	12.0
RTOR Vol			0			7			0			150

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A	P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	39.0			10.0		
Yellow		5.0	5.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	253	1736	0.96	0.73	55.0+	E		
TR	1050	1792	0.85	0.59	22.4	C	29.3	C
Westbound								
L	260	1711	0.05	0.73	10.0-	A		
TR	1018	1738	0.99	0.59	39.5	D	39.2	D
Northbound								
LTR	189	1203	0.65	0.16	33.5	C	33.5	C
Southbound								
LT	179	1138	0.82	0.16	52.4	D	41.6	D
R	251	1599	0.63	0.16	31.6	C		
Intersection Delay = 34.9			(sec/veh)		Intersection LOS = C			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & GRANITE SPRINGS
 Agency: JCE Area Type: All other areas
 Date: 2/15/2011 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Period: AM PEAK HOUR Year :
 Project ID: 1646AMBD14 - WITH TIMING IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: GRANITE SPRINGS/MIDDLE SCHOOL

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	1	1	0	0	1	0	0	1	1
LGConfig	L	TR		L	TR			LTR			LT	R
Volume	112	716	32	143	433	58	37	88	188	151	87	338
Lane Width	11.0	11.0		11.0	11.0			11.0			12.0	12.0
RTOR Vol			2			7			77			268

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru			P		Thru	A		
Right				P	Right	A		
Peds					Peds	X		
WB Left		A			SB Left	A		
Thru			P		Thru	A		
Right				P	Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	30.0			19.0		
Yellow		5.0	5.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	397	1736	0.31	0.60	8.2	A		
TR	815	1783	1.00	0.46	46.1	D	41.1	D
Westbound								
L	250	1711	0.62	0.60	17.4	B		
TR	796	1742	0.66	0.46	19.1	B	18.7	B
Northbound								
LTR	372	1301	0.70	0.29	27.4	C	27.4	C
Southbound								
LT	303	1059	0.87	0.29	46.5	D	40.2	D
R	457	1599	0.17	0.29	18.8	B		
Intersection Delay = 32.5 (sec/veh)					Intersection LOS = C			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & GRANITE SPRINGS
 Agency: JCE Area Type: All other areas
 Date: 02/04/2011 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Period: PM PEAK HOUR Year :
 Project ID: 1646PMBD14 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: GRANITE SPRINGS/MIDDLE SCHOOL

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	1	1	0	0	1	0	0	1	1
LGConfig	L	TR		L	TR			LTR			LT	R
Volume	299	803	2	27	951	148	17	35	57	113	7	196
Lane Width	11.0	11.0		11.0	11.0			11.0			12.0	12.0
RTOR Vol			0			8			0			147

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru			P		Thru	A		
Right				P	Right	A		
Peds					Peds	X		
WB Left		A			SB Left	A		
Thru			P		Thru	A		
Right				P	Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green		5.0	39.0			9.0		
Yellow		5.0	5.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	278	1736	1.16	0.74	114.5	F		
TR	1050	1792	0.82	0.59	15.9	B	42.6	D
Westbound								
L	331	1711	0.09	0.74	7.8	A		
TR	1017	1736	1.17	0.59	100.1	F	97.9	F
Northbound								
LTR	157	1098	0.77	0.14	47.7	D	47.7	D
Southbound								
LT	161	1124	0.83	0.14	57.2	E	48.5	D
R	228	1599	0.24	0.14	26.8	C		
Intersection Delay = 68.0 (sec/veh)					Intersection LOS = E			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & GRANITE SPRINGS
 Agency: JCE Area Type: All other areas
 Date: 02/04/2010 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Period: SATURDAY PEAK HOUR Year :
 Project ID: 1646SATBD14 - WITH TIMING IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: GRANITE SPRINGS/MIDDLE SCHOOL

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	1	1	0	0	1	0	0	1	1
LGConfig	L	TR		L	TR			LTR			LT	R
Volume	246	899	3	11	891	118	15	35	59	126	8	319
Lane Width	11.0	11.0		11.0	11.0			11.0			12.0	12.0
RTOR Vol			0			7			0			150

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A			SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green		4.0	39.0			10.0		
Yellow		5.0	5.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	253	1736	1.06	0.73	76.4	E		
TR	1050	1792	0.93	0.59	29.6	C	39.6	D
Westbound								
L	250	1711	0.05	0.73	12.3	B		
TR	1019	1740	1.07	0.59	62.9	E	62.4	E
Northbound								
LTR	189	1203	0.65	0.16	33.5	C	33.5	C
Southbound								
LT	179	1138	0.82	0.16	52.4	D	44.4	D
R	251	1599	0.74	0.16	38.0	D		
Intersection Delay = 48.9 (sec/veh)					Intersection LOS = D			

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMEX15
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & BALDWIN ROAD
 Area Type: All other areas
 Jurisd: 2011 EXISTING TRAFFIC VOLUMES
 Year :
 N/S St: BALDWIN ROAD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	0	0	0	0	0
LGConfig	TR			LT			LR					
Volume		728	250	175	425		75			160		
Lane Width		13.0			15.0			12.0				
RTOR Vol			11						88			

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left	A		
Thru	P				Thru			
Right	P				Right	A		
Peds					Peds			
WB Left		P			SB Left			
Thru		P			Thru			
Right					Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	64.0				17.0			
Yellow	5.0				5.0			
All Red	1.0				1.0			

Cycle Length: 93.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

TR 1285 1811 0.82 0.71 15.2 B 15.2 B

Westbound

LT 644 908 1.01 0.71 52.1 D 52.1 D

Northbound

LR 310 1696 0.53 0.18 36.0 D 36.0 D

Southbound

Intersection Delay = 29.9 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 1/18/2011
 Period: PM PEAK HOUR
 Project ID: 1646PMEX15
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & BALDWIN ROAD
 Area Type: All other areas
 Jurisd:
 Year : 2010 EXISTING TRAFFIC VOLUMES
 N/S St: BALDWIN ROAD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	0	0	0	0	0
LGConfig	TR			LT			LR					
Volume		709	59	135	869		101		149			
Lane Width		13.0			15.0			12.0				
RTOR Vol			3						59			

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left	A		
Thru	P				Thru			
Right	P				Right	A		
Peds					Peds			
WB Left		P			SB Left			
Thru		P			Thru			
Right					Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	64.0				17.0			
Yellow	5.0				5.0			
All Red	1.0				1.0			

Cycle Length: 93.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

TR 1312 1849 0.63 0.71 9.5 A 9.5 A

Westbound

LT 1004 1415 1.05 0.71 56.8 E 56.8 E

Northbound

LR 311 1699 0.68 0.18 41.5 D 41.5 D

Southbound

Intersection Delay = 36.5 (sec/veh) Intersection LOS = D

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 1/18/2011
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATEX15
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & BALDWIN ROAD
 Area Type: All other areas
 Jurisd:
 Year : 2010 EXISTING TRAFFIC VOLUMES
 N/S St: BALDWIN ROAD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	0	0	0	0	0
LGConfig	TR			LT			LR					
Volume	801	47		82	806		51		103			
Lane Width	13.0			15.0			12.0					
RTOR Vol	2						87					

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left	A		
Thru	P				Thru			
Right	P				Right	A		
Peds					Peds			
WB Left	P				SB Left			
Thru	P				Thru			
Right					Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	64.0				17.0			
Yellow	5.0				5.0			
All Red	1.0				1.0			

Cycle Length: 93.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

TR 1316 1854 0.70 0.71 10.9 B 10.9 B

Westbound

LT 1155 1628 0.80 0.71 15.0 B 15.0 B

Northbound

LR 317 1736 0.24 0.18 32.8 C 32.8 C

Southbound

Intersection Delay = 13.7 (sec/veh) Intersection LOS = B

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMNB15
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & BALDWIN ROAD
 Area Type: All other areas
 Jurisd: 2013 NO-BUILD TRAFFIC VOLUMES
 Year :
 N/S St: BALDWIN ROAD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	0	0	0	0	0
LGConfig	TR			LT			LR					
Volume		783	266	186	463		81			170		
Lane Width		13.0			15.0			12.0				
RTOR Vol			11						88			

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left	A		
Thru	P				Thru			
Right	P				Right	A		
Peds					Peds			
WB Left		P			SB Left			
Thru		P			Thru			
Right					Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	64.0				17.0			
Yellow	5.0				5.0			
All Red	1.0				1.0			

Cycle Length: 93.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

TR 1286 1812 0.88 0.71 19.0 B 19.0 B

Westbound

LT 601 847 1.17 0.71 108.1 F 108.1 F

Northbound

LR 310 1694 0.58 0.18 37.6 D 37.6 D

Southbound

Intersection Delay = 51.9 (sec/veh) Intersection LOS = D

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/04/2011
 Period: PM PEAK HOUR
 Project ID: 1646PMNB15
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & BALDWIN ROAD
 Area Type: All other areas
 Jurisd:
 Year : 2013 NO-BUILD TRAFFIC VOLUMES
 N/S St: BALDWIN ROAD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	0	0	0	0	0
LGConfig	TR			LT			LR					
Volume	792	67		143	963		112		158			
Lane Width	13.0			15.0			12.0					
RTOR Vol	3						53					

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left	A		
Thru	P				Thru			
Right	P				Right	A		
Peds					Peds			
WB Left	P				SB Left			
Thru	P				Thru			
Right					Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	64.0				17.0			
Yellow	5.0				5.0			
All Red	1.0				1.0			
Cycle Length: 93.0								secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

TR 1312 1849 0.71 0.71 11.2 B 11.2 B

Westbound

LT 991 1356 1.18 0.73 102.2 F 102.2 F

Northbound

LR 310 1697 0.78 0.18 48.0 D 48.0 D

Southbound

Intersection Delay = 60.4 (sec/veh) Intersection LOS = E

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/11/11
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATNB15
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & BALDWIN ROAD
 Area Type: All other areas
 Jurisd:
 Year : 2013 NO-BUILD TRAFFIC VOLUMES
 N/S St: BALDWIN ROAD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	0	0	0	0	0
LGConfig	TR			LT			LR					
Volume	888	54		87	893		59		109			
Lane Width	13.0			15.0			12.0					
RTOR Vol	2						78					

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left	A		
Thru	P				Thru			
Right	P				Right	A		
Peds					Peds			
WB Left	P				SB Left			
Thru	P				Thru			
Right					Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	64.0				17.0			
Yellow	5.0				5.0			
All Red	1.0				1.0			
Cycle Length: 93.0 secs								

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
TR	1315	1853	0.78	0.71	13.3	B	13.3	B
Westbound								
LT	1110	1564	0.92	0.71	25.8	C	25.8	C
Northbound								
LR	314	1720	0.32	0.18	33.6	C	33.6	C
Southbound								

Intersection Delay = 20.2 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMBD15
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & BALDWIN ROAD
 Area Type: All other areas
 Jurisd: 2013 BUILD TRAFFIC VOLUMES
 Year :
 N/S St: BALDWIN ROAD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	0	0	0	0	0
LGConfig	TR			LT			LR					
Volume	787	267		186	471		82		170			
Lane Width	13.0			15.0			12.0					
RTOR Vol	11						88					

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left	A		
Thru	P				Thru			
Right	P				Right	A		
Peds					Peds			
WB Left	P				SB Left			
Thru	P				Thru			
Right					Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	64.0				17.0			
Yellow	5.0				5.0			
All Red	1.0				1.0			

Cycle Length: 93.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

TR 1286 1812 0.88 0.71 19.3 B 19.3 B

Westbound

LT 603 849 1.18 0.71 112.4 F 112.4 F

Northbound

LR 310 1695 0.59 0.18 37.7 D 37.7 D

Southbound

Intersection Delay = 53.7 (sec/veh) Intersection LOS = D

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/04/2011
 Period: PM PEAK HOUR
 Project ID: 1646PMBD15
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & BALDWIN ROAD
 Area Type: All other areas
 Jurisd:
 Year : 2013 BUILD TRAFFIC VOLUMES
 N/S St: BALDWIN ROAD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	0	0	0	0	0
LGConfig	TR			LT			LR					
Volume	835	72		143	1006		117		158			
Lane Width	13.0			15.0			12.0					
RTOR Vol	3						53					

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left	A		
Thru	P				Thru			
Right	P				Right	A		
Peds					Peds			
WB Left	P				SB Left			
Thru	P				Thru			
Right					Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	64.0				17.0			
Yellow	5.0				5.0			
All Red	1.0				1.0			

Cycle Length: 93.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

TR 1312 1849 0.75 0.71 12.3 B 12.3 B

Westbound

LT 975 1333 1.24 0.73 129.8 F 129.8 F

Northbound

LR 311 1699 0.79 0.18 49.6 D 49.6 D

Southbound

Intersection Delay = 74.3 (sec/veh) Intersection LOS = E

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/04/2010
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATBD15
 E/W St: ROUTE 202/35

Inter.: ROUTE 202/35 & BALDWIN ROAD
 Area Type: All other areas
 Jurisd:
 Year : 2013 BUILD TRAFFIC VOLUMES
 N/S St: BALDWIN ROAD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	0	0	0	0	0
LGConfig	TR			LT			LR					
Volume	958	62		87	963		66		109			
Lane Width	13.0			15.0			12.0					
RTOR Vol	2						68					

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left	A		
Thru	P				Thru			
Right	P				Right	A		
Peds					Peds			
WB Left	P				SB Left			
Thru	P				Thru			
Right					Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	64.0				17.0			
Yellow	5.0				5.0			
All Red	1.0				1.0			
								Cycle Length: 93.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

TR 1314 1852 0.84 0.71 16.4 B 16.4 B

Westbound

LT 1087 1531 1.01 0.71 42.4 D 42.4 D

Northbound

LR 313 1713 0.38 0.18 34.1 C 34.1 C

Southbound

Intersection Delay = 29.6 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & BALDWIN ROAD
 Agency: JCE Area Type: All other areas
 Date: 02/15/2011 Jurisd:
 Period: AM PEAK HOUR Year : 2013 NO-BUILD TRAFFIC VOLUMES
 Project ID: 1646AMNB15 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: BALDWIN ROAD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	1	1	0	0	0	0	0	0	0
LGConfig	TR			L	T		LR					
Volume	783	266		186	463		81		170			
Lane Width	13.0			12.0	15.0		12.0					
RTOR Vol	13						86					

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left	A		
Thru		P			Thru			
Right		P			Right	A		
Peds					Peds			
WB Left	A	P			SB Left			
Thru	A	P			Thru			
Right					Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	5.0	53.0			14.0			
Yellow	5.0	5.0			5.0			
All Red	1.0	1.0			1.0			

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

TR 1107 1812 1.02 0.61 48.9 D 48.9 D

Westbound

L 325 1708 0.62 0.73 12.4 B
 T 1405 1916 0.36 0.73 4.4 A 6.7 A

Northbound

LR 263 1693 0.70 0.16 43.8 D 43.8 D

Southbound

Intersection Delay = 33.7 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & BALDWIN ROAD
 Agency: JCE Area Type: All other areas
 Date: 02/04/2011 Jurisd:
 Period: PM PEAK HOUR Year : 2013 NO-BUILD TRAFFIC VOLUMES
 Project ID: 1646PMNB - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: BALDWIN ROAD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	1	1	0	0	0	0	0	0	0
LGConfig	TR			L T			LR					
Volume	792 67			143 963			112 158					
Lane Width	13.0			12.0 15.0			12.0					
RTOR Vol	3						56					

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left	A		
Thru		P			Thru			
Right		P			Right	A		
Peds					Peds			
WB Left	A	P			SB Left			
Thru	A	P			Thru			
Right					Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	4.0	53.5			17.5			
Yellow	4.0	4.0			4.0			
All Red	1.0	1.0			1.0			

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

TR 1120 1849 0.83 0.61 21.3 C 21.3 C

Westbound

L 341 1708 0.44 0.71 8.3 A
 T 1352 1916 0.75 0.71 10.4 B 10.1 B

Northbound

LR 330 1698 0.72 0.19 41.3 D 41.3 D

Southbound

Intersection Delay = 17.8 (sec/veh) Intersection LOS = B

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & BALDWIN ROAD
 Agency: JCE Area Type: All other areas
 Date: 2/13/2011 Jurisd:
 Period: SATURDAY PEAK HOUR Year : 2013 NO-BUILD TRAFFIC VOLUMES
 Project ID: 1646SATNB5 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: BALDWIN ROAD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	1	1	0	0	0	0	0	0	0
LGConfig	TR			L	T		LR					
Volume	888	54		87	893		59		109			
Lane Width	13.0			12.0	15.0		12.0					
RTOR Vol	2						68					

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left	A		
Thru		P			Thru			
Right		P			Right	A		
Peds					Peds			
WB Left	A	P			SB Left			
Thru	A	P			Thru			
Right					Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	6.0	52.0			14.0			
Yellow	5.0	5.0			5.0			
All Red	1.0	1.0			1.0			

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

TR 1112 1853 0.92 0.60 36.1 D 36.1 D

Westbound

L 363 1708 0.25 0.73 6.8 A
 T 1405 1916 0.66 0.73 7.2 A 7.1 A

Northbound

LR 266 1709 0.42 0.16 35.4 D 35.4 D

Southbound

Intersection Delay = 22.3 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & BALDWIN ROAD
 Agency: JCE Area Type: All other areas
 Date: 02/15/2011 Jurisd:
 Period: AM PEAK HOUR Year : 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646AMBD15 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: BALDWIN ROAD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	1	1	0	0	0	0	0	0	0
LGConfig	TR			L	T		LR					
Volume	787 267			186	471		82		170			
Lane Width	13.0			12.0	15.0		12.0					
RTOR Vol	13						86					

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left	A		
Thru		P			Thru			
Right		P			Right	A		
Peds					Peds			
WB Left	A	P			SB Left			
Thru	A	P			Thru			
Right					Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	5.0	53.0			14.0			
Yellow	5.0	5.0			5.0			
All Red	1.0	1.0			1.0			

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

TR 1107 1812 1.02 0.61 50.2 D 50.2 D

Westbound

L 324 1708 0.62 0.73 12.5 B
 T 1405 1916 0.36 0.73 4.4 A 6.7 A

Northbound

LR 264 1694 0.70 0.16 43.8 D 43.8 D

Southbound

Intersection Delay = 34.3 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & BALDWIN ROAD
 Agency: JCE Area Type: All other areas
 Date: 02/04/2011 Jurisd:
 Period: PM PEAK HOUR Year : 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646PMBD15 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: BALDWIN ROAD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	1	1	0	0	0	0	0	0	0
LGConfig	TR			L	T		LR					
Volume	835	72		143	1006		117		158			
Lane Width	13.0			12.0	15.0		12.0					
RTOR Vol	3						56					

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left	A		
Thru		P			Thru			
Right		P			Right	A		
Peds					Peds			
WB Left	A	P			SB Left			
Thru	A	P			Thru			
Right					Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	4.0	53.5			17.5			
Yellow	4.0	4.0			4.0			
All Red	1.0	1.0			1.0			

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

TR 1120 1849 0.88 0.61 24.7 C 24.7 C

Westbound

L 323 1708 0.47 0.71 8.8 A
 T 1352 1916 0.78 0.71 11.5 B 11.2 B

Northbound

LR 331 1700 0.73 0.19 42.3 D 42.3 D

Southbound

Intersection Delay = 19.8 (sec/veh) Intersection LOS = B

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: ROUTE 202/35 & BALDWIN ROAD
 Agency: JCE Area Type: All other areas
 Date: 2/13/2011 Jurisd:
 Period: SATURDAY PEAK HOUR Year : 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646SATBD15 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: BALDWIN ROAD

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	1	1	0	0	0	0	0	0	0
LGConfig	TR			L	T		LR					
Volume	958	62		87	963		66		109			
Lane Width	13.0			12.0	15.0		12.0					
RTOR Vol	2						68					

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left	A		
Thru		P			Thru			
Right		P			Right	A		
Peds					Peds			
WB Left	A	P			SB Left			
Thru	A	P			Thru			
Right					Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	6.0	52.0			14.0			
Yellow	5.0	5.0			5.0			
All Red	1.0	1.0			1.0			

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

TR 1111 1852 1.00 0.60 43.8 D 43.8 D

Westbound

L 340 1708 0.27 0.73 7.3 A
 T 1405 1916 0.71 0.73 8.2 A 8.1 A

Northbound

LR 266 1713 0.45 0.16 35.7 D 35.7 D

Southbound

Intersection Delay = 26.6 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMEX16
 E/W St: ROUTE 202/35

Inter.: NYS ROUTE 118 & ROUTE 202/35
 Area Type: All other areas
 Jurisd:
 Year : 2010 EXISTING TRAFFIC VOLUMES
 N/S St: NYS ROUTE 118

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	1	1	1	1	1	1	1	1	1	0
LGConfig	L	T	R	L	T	R	L	T	R	L	TR	
Volume	297	380	204	37	226	168	167	200	37	207	410	89
Lane Width	11.0	11.0	11.0	11.0	12.0	10.0	11.0	11.0	11.0	12.0	12.0	
RTOR Vol			27			0			0			20

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	A		NB Left	A	A	
Thru		A			Thru	A		
Right		A			Right	A		
Peds					Peds			
WB Left		A	A		SB Left	A	A	
Thru		A			Thru	A		
Right		A	A		Right	A		
Peds					Peds			
NB Right			A		EB Right		A	
SB Right					WB Right	A	A	
Green		55.0	10.0			25.0	10.0	
Yellow		4.0	4.0			4.0	4.0	
All Red		1.0	1.0			1.0	1.0	

Cycle Length: 120.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	655	1678	0.49	0.59	18.7	B		
T	840	1801	0.49	0.47	22.6	C	19.0	B
R	888	1501	0.22	0.59	11.6	B		
Westbound								
L	534	1711	0.07	0.59	17.9	B		
T	869	1863	0.28	0.47	19.8	B	12.0	B
R	1478	1478	0.12	1.00	0.0+	A		
Northbound								
L	271	1686	0.67	0.34	53.8	D		
T	385	1775	0.56	0.22	43.8	D	46.4	D
R	525	1538	0.08	0.34	26.8	C		
Southbound								
L	390	1787	0.58	0.34	41.9	D		
TR	391	1805	1.33	0.22	213.2	F	161.5	F

Intersection Delay = 63.6 (sec/veh) Intersection LOS = E

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 1/18/2010
 Period: PM PEAK HOUR
 Project ID: 1646PMEX16
 E/W St: ROUTE 202/35

Inter.: NYS ROUTE 118 & ROUTE 202/35
 Area Type: All other areas
 Jurisd:
 Year : 2010 EXISTING TRAFFIC VOLUMES
 N/S St: NYS ROUTE 118/COMMERCE STREET

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	1	1	1	1	1	1	1	1	1	0
LGConfig	L	T	R	L	T	R	L	T	R	L	TR	
Volume	275	290	177	253	406	40	275	450	41	154	252	195
Lane Width	11.0	11.0	11.0	11.0	12.0	10.0	11.0	11.0	11.0	12.0	12.0	
RTOR Vol			25			0			0			3

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left	A	A			NB Left	A	A	
Thru	A				Thru	A		
Right	A				Right	A		
Peds					Peds			
WB Left	A	A			SB Left	A	A	
Thru	A				Thru	A		
Right	A	A			Right	A		
Peds					Peds			
NB Right		A			EB Right		A	
SB Right					WB Right	A	A	
Green	55.0	10.0			25.0	10.0		
Yellow	4.0	4.0			4.0	4.0		
All Red	1.0	1.0			1.0	1.0		

Cycle Length: 120.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	506	1678	0.58	0.59	28.4	C		
T	840	1801	0.37	0.47	20.9	C	21.8	C
R	888	1501	0.18	0.59	11.3	B		
Westbound								
L	613	1711	0.44	0.59	19.9	B		
T	869	1863	0.50	0.47	22.8	C	20.4	C
R	1478	1478	0.03	1.00	0.0+	A		
Northbound								
L	271	1686	1.08	0.34	128.4	F		
T	385	1775	1.24	0.22	177.0	F	151.5	F
R	525	1538	0.08	0.34	26.8	C		
Southbound								
L	286	1787	0.58	0.34	49.8	D		
TR	374	1725	1.29	0.22	196.8	F	159.0	F

Intersection Delay = 86.7 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 1/18/2011
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATEX16
 E/W St: ROUTE 202/35

Inter.: NYS ROUTE 118 & ROUTE 202/35
 Area Type: All other areas
 Jurisd:
 Year : 2010 EXISTING TRAFFIC VOLUMES
 N/S St: NYS ROUTE 118/COMMERCE STREET

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	1	1	1	1	1	1	1	1	1	0
LGConfig	L	T	R	L	T	R	L	T	R	L	TR	
Volume	319	296	249	59	333	190	263	356	74	158	230	199
Lane Width	11.0	11.0	11.0	11.0	12.0	10.0	11.0	11.0	11.0	12.0	12.0	
RTOR Vol			47			0			0			15

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	A		NB Left	A	A	
Thru		A			Thru	A		
Right		A			Right	A		
Peds					Peds			
WB Left		A	A		SB Left	A	A	
Thru		A			Thru	A		
Right		A	A		Right	A		
Peds					Peds			
NB Right			A		EB Right		A	
SB Right					WB Right	A	A	
Green		55.0	10.0			25.0	10.0	
Yellow		4.0	4.0			4.0	4.0	
All Red		1.0	1.0			1.0	1.0	

Cycle Length: 120.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	562	1678	0.62	0.59	26.4	C		
T	840	1801	0.38	0.47	21.1	C	20.9	C
R	888	1501	0.25	0.59	11.9	B		
Westbound								
L	605	1711	0.11	0.59	15.5	B		
T	869	1863	0.42	0.47	21.5	C	13.9	B
R	1478	1478	0.14	1.00	0.0+	A		
Northbound								
L	271	1686	1.03	0.34	114.0	F		
T	385	1775	0.98	0.22	88.4	F	91.6	F
R	525	1538	0.15	0.34	27.5	C		
Southbound								
L	286	1787	0.64	0.34	52.0	D		
TR	373	1722	1.29	0.22	196.1	F	156.2	F

Intersection Delay = 68.0 (sec/veh) Intersection LOS = E

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMNB16
 E/W St: ROUTE 202/35

Inter.: NYS ROUTE 118 & ROUTE 202/35
 Area Type: All other areas
 Jurisd:
 Year : 2013 NO-BUILD TRAFFIC VOLUMES
 N/S St: NYS ROUTE 118

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	1	1	1	1	1	1	1	1	1	0
LGConfig	L	T	R	L	T	R	L	T	R	L	TR	
Volume	317	406	221	39	243	178	181	212	39	219	435	97
Lane Width	11.0	11.0	11.0	11.0	12.0	10.0	11.0	11.0	11.0	12.0	12.0	
RTOR Vol			27			0			0			20

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	A		NB Left	A	A	
Thru		A			Thru	A		
Right		A			Right	A		
Peds					Peds			
WB Left		A	A		SB Left	A	A	
Thru		A			Thru	A		
Right		A	A		Right	A		
Peds					Peds			
NB Right			A		EB Right		A	
SB Right					WB Right	A	A	
Green		55.0	10.0			25.0	10.0	
Yellow		4.0	4.0			4.0	4.0	
All Red		1.0	1.0			1.0	1.0	

Cycle Length: 120.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	640	1678	0.54	0.59	20.3	C		
T	840	1801	0.52	0.47	23.2	C	19.8	B
R	888	1501	0.24	0.59	11.8	B		
Westbound								
L	513	1711	0.08	0.59	19.0	B		
T	869	1863	0.30	0.47	20.1	C	12.2	B
R	1478	1478	0.13	1.00	0.0+	A		
Northbound								
L	271	1686	0.73	0.34	57.4	E		
T	385	1775	0.60	0.22	44.8	D	48.5	D
R	525	1538	0.08	0.34	26.8	C		
Southbound								
L	379	1787	0.63	0.34	44.3	D		
TR	391	1803	1.42	0.22	252.4	F	190.1	F

Intersection Delay = 72.4 (sec/veh) Intersection LOS = E

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/11/11
 Period: PM PEAK HOUR
 Project ID: 1646PMNB16
 E/W St: ROUTE 202/35

Inter.: NYS ROUTE 118 & ROUTE 202/35
 Area Type: All other areas
 Jurisd:
 Year : 2013 NO-BUILD TRAFFIC VOLUMES
 N/S St: NYS ROUTE 118

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	1	1	1	1	1	1	1	1	1	0
LGConfig	L	T	R	L	T	R	L	T	R	L	TR	
Volume	299	320	202	268	444	42	306	477	43	163	267	214
Lane Width	11.0	11.0	11.0	11.0	12.0	10.0	11.0	11.0	11.0	12.0	12.0	
RTOR Vol			24			0			0			3

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	A		NB Left	A	A	
Thru		A			Thru	A		
Right		A			Right	A		
Peds					Peds			
WB Left		A	A		SB Left	A	A	
Thru		A			Thru	A		
Right		A	A		Right	A		
Peds					Peds			
NB Right			A		EB Right		A	
SB Right					WB Right	A	A	
Green		55.0	10.0			25.0	10.0	
Yellow		4.0	4.0			4.0	4.0	
All Red		1.0	1.0			1.0	1.0	

Cycle Length: 120.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	476	1678	0.68	0.59	35.0+	D		
T	840	1801	0.41	0.47	21.4	C	24.4	C
R	888	1501	0.22	0.59	11.6	B		
Westbound								
L	587	1711	0.49	0.59	21.8	C		
T	869	1863	0.55	0.47	23.7	C	21.7	C
R	1478	1478	0.03	1.00	0.0+	A		
Northbound								
L	271	1686	1.20	0.34	171.5	F		
T	385	1775	1.32	0.22	206.9	F	184.4	F
R	525	1538	0.09	0.34	26.9	C		
Southbound								
L	286	1787	0.62	0.34	51.1	D		
TR	373	1723	1.39	0.22	238.9	F	191.1	F

Intersection Delay = 102.9 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/11/11
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATNB16
 E/W St: ROUTE 202/35

Inter.: NYS ROUTE 118 & ROUTE 202/35
 Area Type: All other areas
 Jurisd:
 Year : 2013 NO-BUILD TRAFFIC VOLUMES
 N/S St: NYS ROUTE 118

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	1	1	1	1	1	1	1	1	1	0
LGConfig	L	T	R	L	T	R	L	T	R	L	TR	
Volume	346	326	278	63	365	201	293	377	78	167	244	218
Lane Width	11.0	11.0	11.0	11.0	12.0	10.0	11.0	11.0	11.0	12.0	12.0	
RTOR Vol			49			0			0			15

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left	A	A			NB Left	A	A	
Thru	A				Thru	A		
Right	A				Right	A		
Peds					Peds			
WB Left	A	A			SB Left	A	A	
Thru	A				Thru	A		
Right	A	A			Right	A		
Peds					Peds			
NB Right		A			EB Right		A	
SB Right					WB Right	A	A	
Green	55.0	10.0			25.0	10.0		
Yellow	4.0	4.0			4.0	4.0		
All Red	1.0	1.0			1.0	1.0		

Cycle Length: 120.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	535	1678	0.70	0.59	32.0	C		
T	840	1801	0.42	0.47	21.6	C	23.2	C
R	888	1501	0.28	0.59	12.2	B		
Westbound								
L	579	1711	0.12	0.59	16.6	B		
T	869	1863	0.46	0.47	22.1	C	14.5	B
R	1478	1478	0.15	1.00	0.0+	A		
Northbound								
L	271	1686	1.15	0.34	152.3	F		
T	385	1775	1.04	0.22	104.1	F	115.0	F
R	525	1538	0.16	0.34	27.6	C		
Southbound								
L	286	1787	0.68	0.34	53.5	D		
TR	373	1720	1.39	0.22	240.0	F	189.4	F

Intersection Delay = 81.8 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 2/15/2011
 Period: AM PEAK HOUR
 Project ID: 1646AMBD16
 E/W St: ROUTE 202/35

Inter.: NYS ROUTE 118 & ROUTE 202/35
 Area Type: All other areas
 Jurisd:
 Year : 2013 BUILD TRAFFIC VOLUMES
 N/S St: NYS ROUTE 118

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	1	1	1	1	1	1	1	1	1	0
LGConfig	L	T	R	L	T	R	L	T	R	L	TR	
Volume	317	407	222	39	245	178	184	212	39	219	435	98
Lane Width	11.0	11.0	11.0	11.0	12.0	10.0	11.0	11.0	11.0	12.0	12.0	
RTOR Vol			27			0			0			20

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	A		NB Left	A	A	
Thru		A			Thru	A		
Right		A			Right	A		
Peds					Peds			
WB Left		A	A		SB Left	A	A	
Thru		A			Thru	A		
Right		A	A		Right	A		
Peds					Peds			
NB Right			A		EB Right		A	
SB Right					WB Right	A	A	
Green		55.0	10.0			25.0	10.0	
Yellow		4.0	4.0			4.0	4.0	
All Red		1.0	1.0			1.0	1.0	

Cycle Length: 120.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	638	1678	0.54	0.59	20.5	C		
T	840	1801	0.53	0.47	23.2	C	19.8	B
R	888	1501	0.24	0.59	11.8	B		
Westbound								
L	512	1711	0.08	0.59	19.0	B		
T	869	1863	0.31	0.47	20.1	C	12.3	B
R	1478	1478	0.13	1.00	0.0+	A		
Northbound								
L	271	1686	0.74	0.34	58.2	E		
T	385	1775	0.60	0.22	44.8	D	48.9	D
R	525	1538	0.08	0.34	26.8	C		
Southbound								
L	379	1787	0.63	0.34	44.3	D		
TR	391	1803	1.43	0.22	253.5	F	191.0	F

Intersection Delay = 72.6 (sec/veh) Intersection LOS = E

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/04/2011
 Period: PM PEAK HOUR
 Project ID: 1646PMBD16
 E/W St: ROUTE 202/35

Inter.: NYS ROUTE 118 & ROUTE 202/35
 Area Type: All other areas
 Jurisd:
 Year : 2013 BUILD TRAFFIC VOLUMES
 N/S St: NYS ROUTE 118

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	1	1	1	1	1	1	1	1	1	0
LGConfig	L	T	R	L	T	R	L	T	R	L	TR	
Volume	304	332	216	268	456	42	321	477	43	163	267	219
Lane Width	11.0	11.0	11.0	11.0	12.0	10.0	11.0	11.0	11.0	12.0	12.0	
RTOR Vol			24			0			0			2

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	A		EB Left	A	A	
Thru		A			Thru	A		
Right		A			Right	A		
Peds					Peds			
WB Left		A	A		SB Left	A	A	
Thru		A			Thru	A		
Right		A	A		Right	A		
Peds					Peds			
NB Right			A		EB Right		A	
SB Right					WB Right	A	A	
Green		55.0	10.0			25.0	10.0	
Yellow		4.0	4.0			4.0	4.0	
All Red		1.0	1.0			1.0	1.0	

Cycle Length: 120.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	467	1678	0.70	0.59	36.5	D		
T	840	1801	0.43	0.47	21.6	C	24.8	C
R	888	1501	0.23	0.59	11.7	B		
Westbound								
L	577	1711	0.50	0.59	22.5	C		
T	869	1863	0.56	0.47	24.0	C	22.2	C
R	1478	1478	0.03	1.00	0.0+	A		
Northbound								
L	271	1686	1.26	0.34	193.1	F		
T	385	1775	1.32	0.22	206.9	F	192.4	F
R	525	1538	0.09	0.34	26.9	C		
Southbound								
L	286	1787	0.62	0.34	51.1	D		
TR	373	1721	1.41	0.22	246.9	F	197.6	F

Intersection Delay = 106.1 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.3

Analyst: RGD
 Agency: JCE
 Date: 02/04/2010
 Period: SATURDAY PEAK HOUR
 Project ID: 1646SATBD16
 E/W St: ROUTE 202/35

Inter.: NYS ROUTE 118 & ROUTE 202/35
 Area Type: All other areas
 Jurisd:
 Year : 2013 BUILD TRAFFIC VOLUMES
 N/S St: NYS ROUTE 118

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	1	1	1	1	1	1	1	1	1	0
LGConfig	L	T	R	L	T	R	L	T	R	L	TR	
Volume	353	345	301	63	385	201	316	377	78	167	244	226
Lane Width	11.0	11.0	11.0	11.0	12.0	10.0	11.0	11.0	11.0	12.0	12.0	
RTOR Vol			49			0			0			14

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left	A	A			NB Left	A	A	
Thru	A				Thru	A		
Right	A				Right	A		
Peds					Peds			
WB Left	A	A			SB Left	A	A	
Thru	A				Thru	A		
Right	A	A			Right	A		
Peds					Peds			
NB Right		A			EB Right		A	
SB Right					WB Right	A	A	
Green	55.0	10.0			25.0	10.0		
Yellow	4.0	4.0			4.0	4.0		
All Red	1.0	1.0			1.0	1.0		

Cycle Length: 120.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	520	1678	0.74	0.59	35.1	D		
T	840	1801	0.45	0.47	21.9	C	24.3	C
R	888	1501	0.31	0.59	12.4	B		
Westbound								
L	563	1711	0.12	0.59	17.2	B		
T	869	1863	0.48	0.47	22.4	C	15.0	B
R	1478	1478	0.15	1.00	0.0+	A		
Northbound								
L	271	1686	1.24	0.34	185.8	F		
T	385	1775	1.04	0.22	104.1	F	129.8	F
R	525	1538	0.16	0.34	27.6	C		
Southbound								
L	286	1787	0.68	0.34	53.5	D		
TR	372	1716	1.43	0.22	254.3	F	200.6	F

Intersection Delay = 87.6 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: NYS ROUTE 118 & ROUTE 202/35
 Agency: JCE Area Type: All other areas
 Date: 02/15/2011 Jurisd:
 Period: AM PEAK HOUR Year : 2013 NO-BUILD TRAFFIC VOLUMES
 Project ID: 1646AMNB16 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: NYS ROUTE 118

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	1	1	1	1	1	1	1	1	1	0
LGConfig	L	T	R	L	T	R	L	T	R	L	TR	
Volume	317	406	221	39	243	178	181	212	39	219	435	97
Lane Width	11.0	11.0	11.0	11.0	12.0	10.0	11.0	11.0	11.0	12.0	12.0	
RTOR Vol			26			0			0			21

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	A		NB Left	A	A	
Thru		A			Thru	A		
Right		A			Right	A		
Peds					Peds			
WB Left		A	A		SB Left	A	A	
Thru		A			Thru	A		
Right		A	A		Right	A		
Peds					Peds			
NB Right			A		EB Right		A	
SB Right					WB Right	A	A	
Green		41.0	8.0			41.0	10.0	
Yellow		4.0	4.0			4.0	4.0	
All Red		1.0	1.0			1.0	1.0	

Cycle Length: 120.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group	Approach	
			v/c	g/C	Delay	LOS	Delay LOS
Eastbound							
L	468	1678	0.74	0.46	40.3	D	
T	630	1801	0.70	0.35	37.0	D	34.4 C
R	713	1501	0.30	0.47	19.5	B	
Westbound							
L	342	1711	0.12	0.46	32.7	C	
T	652	1863	0.40	0.35	29.9	C	18.6 B
R	1478	1478	0.13	1.00	0.0+	A	
Northbound							
L	286	1686	0.69	0.47	52.6	D	
T	621	1775	0.37	0.35	29.5	C	38.2 D
R	705	1538	0.06	0.46	18.1	B	
Southbound							
L	557	1787	0.43	0.47	26.5	C	
TR	631	1804	0.88	0.35	50.4	D	43.2 D

Intersection Delay = 34.7 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: NYS ROUTE 118 & ROUTE 202/35
 Agency: JCE Area Type: All other areas
 Date: 02/04/2011 Jurisd:
 Period: PM PEAK HOUR Year : 2013 NO-BUILD TRAFFIC VOLUMES
 Project ID: 1646PMNB16 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: NYS ROUTE 118

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	1	1	1	1	1	1	1	1	1	0
LGConfig	L	T	R	L	T	R	L	T	R	L	TR	
Volume	299	320	202	268	444	42	306	477	43	163	267	214
Lane Width	11.0	11.0	11.0	11.0	12.0	10.0	11.0	11.0	11.0	12.0	12.0	
RTOR Vol			145			0			23			25

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	A		NB Left	A	A	
Thru		A			Thru	A		
Right		A			Right	A		
Peds					Peds			
WB Left		A	A		SB Left	A	A	
Thru		A			Thru	A		
Right		A	A		Right	A		
Peds					Peds			
NB Right			A		EB Right		A	
SB Right					WB Right	A	A	
Green		32.0	16.0			37.0	15.0	
Yellow		4.0	4.0			4.0	4.0	
All Red		1.0	1.0			1.0	1.0	

Cycle Length: 120.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	354	1678	0.91	0.45	72.8	E		
T	495	1801	0.69	0.28	43.2	D	54.3	D
R	663	1501	0.09	0.44	19.6	B		
Westbound								
L	436	1711	0.66	0.45	42.1	D		
T	512	1863	0.93	0.28	66.4	E	54.1	D
R	1478	1478	0.03	1.00	0.0+	A		
Northbound								
L	359	1686	0.91	0.48	71.5	E		
T	562	1775	0.90	0.32	57.0	E	61.5	E
R	756	1538	0.03	0.49	15.7	B		
Southbound								
L	372	1787	0.48	0.48	41.7	D		
TR	548	1731	0.90	0.32	57.6	E	53.4	D

Intersection Delay = 56.1 (sec/veh) Intersection LOS = E

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: NYS ROUTE 118 & ROUTE 202/35
 Agency: JCE Area Type: All other areas
 Date: 2/13/2011 Jurisd:
 Period: SATURDAY PEAK HOUR Year : 2013 NO-BUILD TRAFFIC VOLUMES
 Project ID: 1646SATNB16 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: NYS ROUTE 118

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	1	1	1	1	1	1	1	1	1	0
LGConfig	L	T	R	L	T	R	L	T	R	L	TR	
Volume	346	326	278	63	365	201	293	377	78	167	244	218
Lane Width	11.0	11.0	11.0	11.0	12.0	10.0	11.0	11.0	11.0	12.0	12.0	
RTOR Vol			189			0			50			26

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	A		NB Left	A	A	
Thru		A			Thru	A		
Right		A			Right	A		
Peds					Peds			
WB Left		A	A		SB Left	A	A	
Thru		A			Thru	A		
Right		A	A		Right	A		
Peds					Peds			
NB Right			A		EB Right		A	
SB Right					WB Right	A	A	
Green		43.0	10.0			34.0	13.0	
Yellow		4.0	4.0			4.0	4.0	
All Red		1.0	1.0			1.0	1.0	

Cycle Length: 120.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	416	1678	0.90	0.49	63.2	E		
T	660	1801	0.54	0.37	30.8	C	43.7	D
R	776	1501	0.13	0.52	15.1	B		
Westbound								
L	456	1711	0.15	0.49	25.7	C		
T	683	1863	0.58	0.37	31.8	C	21.1	C
R	1478	1478	0.15	1.00	0.0+	A		
Northbound								
L	313	1686	1.00	0.44	98.7	F		
T	518	1775	0.77	0.29	46.1	D	67.2	E
R	641	1538	0.05	0.42	20.9	C		
Southbound								
L	389	1787	0.50	0.44	40.2	D		
TR	503	1723	1.01	0.29	84.6	F	72.3	E

Intersection Delay = 51.2 (sec/veh) Intersection LOS = D

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: NYS ROUTE 118 & ROUTE 202/35
 Agency: JCE Area Type: All other areas
 Date: 02/15/2011 Jurisd:
 Period: AM PEAK HOUR Year : 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646AMBD16 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: NYS ROUTE 118

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	1	1	1	1	1	1	1	1	1	0
LGConfig	L	T	R	L	T	R	L	T	R	L	TR	
Volume	317	407	222	39	245	178	184	212	39	219	435	98
Lane Width	11.0	11.0	11.0	11.0	12.0	10.0	11.0	11.0	11.0	12.0	12.0	
RTOR Vol			26			0			0			21

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A	A	
Thru		A			Thru	A		
Right		A			Right	A		
Peds					Peds			
WB Left		A	A		SB Left	A	A	
Thru		A			Thru	A		
Right		A	A		Right	A		
Peds					Peds			
NB Right			A		EB Right		A	
SB Right					WB Right	A	A	
Green		41.0	8.0			41.0	10.0	
Yellow		4.0	4.0			4.0	4.0	
All Red		1.0	1.0			1.0	1.0	

Cycle Length: 120.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	467	1678	0.74	0.46	40.5	D		
T	630	1801	0.70	0.35	37.1	D	34.5	C
R	713	1501	0.30	0.47	19.5	B		
Westbound								
L	342	1711	0.12	0.46	32.8	C		
T	652	1863	0.41	0.35	30.0	C	18.7	B
R	1478	1478	0.13	1.00	0.0+	A		
Northbound								
L	286	1686	0.70	0.47	53.3	D		
T	621	1775	0.37	0.35	29.5	C	38.6	D
R	705	1538	0.06	0.46	18.1	B		
Southbound								
L	557	1787	0.43	0.47	26.5	C		
TR	631	1803	0.88	0.35	50.6	D	43.4	D

Intersection Delay = 34.9 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: NYS ROUTE 118 & ROUTE 202/35
 Agency: JCE Area Type: All other areas
 Date: 02/04/2011 Jurisd:
 Period: PM PEAK HOUR Year : 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646PMBD16 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: NYS ROUTE 118

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	1	1	1	1	1	1	1	1	1	0
LGConfig	L	T	R	L	T	R	L	T	R	L	TR	
Volume	304	332	216	268	456	42	321	477	43	163	267	219
Lane Width	11.0	11.0	11.0	11.0	12.0	10.0	11.0	11.0	11.0	12.0	12.0	
RTOR Vol			145			0			23			25

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru		A			Thru	A		
Right		A			Right	A		
Peds					Peds			
WB Left		A	A		SB Left	A	A	
Thru		A			Thru	A		
Right		A	A		Right	A		
Peds					Peds			
NB Right			A		EB Right		A	
SB Right					WB Right	A	A	
Green		32.0	16.0			37.0	15.0	
Yellow		4.0	4.0			4.0	4.0	
All Red		1.0	1.0			1.0	1.0	

Cycle Length: 120.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	354	1678	0.92	0.45	75.8	E		
T	495	1801	0.72	0.28	44.4	D	55.5	E
R	663	1501	0.11	0.44	19.8	B		
Westbound								
L	426	1711	0.68	0.45	43.5	D		
T	512	1863	0.96	0.28	71.9	E	58.0	E
R	1478	1478	0.03	1.00	0.0+	A		
Northbound								
L	354	1686	0.96	0.48	84.4	F		
T	562	1775	0.90	0.32	57.0	E	66.8	E
R	756	1538	0.03	0.49	15.7	B		
Southbound								
L	372	1787	0.48	0.48	41.7	D		
TR	548	1729	0.91	0.32	59.4	E	54.8	D

Intersection Delay = 59.1 (sec/veh) Intersection LOS = E

HCS+: Signalized Intersections Release 5.3

Analyst: RGD Inter.: NYS ROUTE 118 & ROUTE 202/35
 Agency: JCE Area Type: All other areas
 Date: 2/13/2011 Jurisd:
 Period: SATURDAY PEAK HOUR Year : 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646SATBD16 - WITH IMPROVEMENTS
 E/W St: ROUTE 202/35 N/S St: NYS ROUTE 118

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	1	1	1	1	1	1	1	1	1	0
LGConfig	L	T	R	L	T	R	L	T	R	L	TR	
Volume	353	345	301	63	385	201	316	377	78	167	244	226
Lane Width	11.0	11.0	11.0	11.0	12.0	10.0	12.0	11.0	11.0	12.0	12.0	
RTOR Vol			189			0			50			26

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru		A			Thru	A		
Right		A			Right	A		
Peds					Peds			
WB Left		A	A		SB Left	A	A	
Thru		A			Thru	A		
Right		A	A		Right	A		
Peds					Peds			
NB Right			A		EB Right		A	
SB Right					WB Right	A	A	
Green		43.0	10.0			34.0	13.0	
Yellow		4.0	4.0			4.0	4.0	
All Red		1.0	1.0			1.0	1.0	

Cycle Length: 120.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	401	1678	0.96	0.49	76.3	E		
T	660	1801	0.57	0.37	31.6	C	48.8	D
R	776	1501	0.16	0.52	15.4	B		
Westbound								
L	440	1711	0.15	0.49	26.7	C		
T	683	1863	0.61	0.37	32.7	C	22.0	C
R	1478	1478	0.15	1.00	0.0+	A		
Northbound								
L	323	1744	1.04	0.44	104.0	F		
T	518	1775	0.77	0.29	46.1	D	70.5	E
R	641	1538	0.05	0.42	20.9	C		
Southbound								
L	389	1787	0.50	0.44	40.2	D		
TR	502	1720	1.03	0.29	90.5	F	76.8	E

Intersection Delay = 54.6 (sec/veh) Intersection LOS = D

CAPACITY ANALYSIS
WITH OLD CROMPOND ROAD CLOSURE

HCS+: Signalized Intersections Release 5.5

Analyst: RGD Inter.: ROUTE 202/35 & STONY STREET
 Agency: JCE Area Type: All other areas
 Date: 5/3/2012 Jurisd:
 Period: AM PEAK HOUR Year : 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646AMBD6 - WITH OCR CLOSURE
 E/W St: ROUTE 202/35 N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	1	1	1	1	1	0	1	1
LGConfig	L	TR		L	T	R	L	T	R		LT	R
Volume	29	1271	171	90	490	20	86	8	191	111	71	113
Lane Width	12.0	12.0		12.0	14.0	12.0	12.0	12.0	12.0		12.0	11.0
RTOR Vol			12			7			20			93

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A			SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		10.0	40.0			15.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 80.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	553	1770	0.06	0.70	5.4	A		
TR	1757	3428	0.89	0.51	24.3	C	24.0	C
Westbound								
L	336	1770	0.29	0.70	11.8	B		
T	987	1925	0.54	0.51	15.3	B	14.6	B
R	811	1583	0.02	0.51	9.6	A		
Northbound								
L	172	860	0.56	0.20	31.3	C		
T	373	1863	0.02	0.20	25.7	C	22.0	C
R	613	1583	0.31	0.39	17.2	B		
Southbound								
LT	304	1522	0.66	0.20	33.9	C	32.1	C
R	583	1505	0.04	0.39	15.2	B		

Intersection Delay = 22.2 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.5

Analyst: RGD Inter.: ROUTE 202/35 & STONY STREET
 Agency: JCE Area Type: All other areas
 Date: 5/3/2012 Jurisd:
 Period: AM PEAK HOUR Year : 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646AMBD6 - WITH NYSDOT IMPROVEMENTS - OCR CLOSURE
 E/W St: ROUTE 202/35 N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	1	1	2	0	1	1	1	0	1	1
LGConfig	L	T	R	L	TR		L	T	R		LT	R
Volume	29	1271	171	90	490	20	86	8	191	111	71	113
Lane Width	12.0	12.0	12.0	12.0	14.0		12.0	12.0	12.0		12.0	11.0
RTOR Vol			47			2			20			93

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A	P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		4.9	42.3			12.5		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 74.7 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	598	1770	0.05	0.71	3.4	A		
T	2016	3478	0.69	0.58	12.9	B	12.2	B
R	900	1552	0.15	0.58	7.6	A		
Westbound								
L	267	1770	0.37	0.71	7.7	A		
TR	2128	3671	0.26	0.58	8.1	A	8.0	A
Northbound								
L	152	840	0.63	0.18	34.6	C		
T	337	1863	0.03	0.18	25.2	C	25.0	C
R	496	1583	0.38	0.31	20.2	C		
Southbound								
LT	275	1522	0.73	0.18	37.5	D	35.6	D
R	476	1518	0.05	0.31	17.9	B		

Intersection Delay = 14.5 (sec/veh) Intersection LOS = B

HCS+: Signalized Intersections Release 5.5

Analyst: RGD Inter.: ROUTE 202/35 & STONY STREET
 Agency: JCE Area Type: All other areas
 Date: 5/3/2012 Jurisd:
 Period: PM PEAK HOUR Year : 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646PMBD6 - WITH NYSDOT IMPROVEMENTS - OCR CLOSURE
 E/W St: ROUTE 202/35 N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	1	1	2	0	1	1	1	0	1	1
LGConfig	L	T	R	L	TR		L	T	R		LT	R
Volume	75	992	193	189	1102	84	226	55	267	182	123	162
Lane Width	12.0	12.0	12.0	12.0	14.0		12.0	12.0	12.0		12.0	11.0
RTOR Vol			67			4			23			19

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A	A	
Thru			P		Thru	A	A	
Right			P		Right	A	A	
Peds					Peds		X	
WB Left		A	P		SB Left		A	
Thru			P		Thru		A	
Right			P		Right		A	
Peds					Peds		X	
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		8.0	34.0			6.0	22.0	
Yellow		4.0	4.0			4.0	4.0	
All Red		1.0	1.0			1.0	1.0	

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	260	1770	0.32	0.53	16.3	B		
T	1353	3478	0.81	0.39	19.3	B	19.1	B
R	604	1552	0.23	0.39	19.3	B		
Westbound								
L	272	1770	0.72	0.53	23.3	C		
TR	1422	3656	0.87	0.39	32.6	C	31.3	C
Northbound								
L	269	1761	0.93	0.38	66.8	E		
T	704	1863	0.09	0.38	18.0	B	36.5	D
R	827	1583	0.33	0.52	12.5	B		
Southbound								
LT	378	1471	0.90	0.26	54.9	D	43.1	D
R	611	1527	0.26	0.40	18.2	B		

Intersection Delay = 29.5 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.5

Analyst: RGD Inter.: ROUTE 202/35 & STONY STREET
 Agency: JCE Area Type: All other areas
 Date: 5/3/2012 Jurisd:
 Period: PM PEAK HOUR Year : 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646PMBD6 - WITH OCR CLOSURE
 E/W St: ROUTE 202/35 N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	1	1	1	1	1	0	1	1
LGConfig	L	TR		L	T	R	L	T	R		LT	R
Volume	75	992	193	189	1102	84	226	55	267	182	123	161
Lane Width	12.0	12.0		12.0	14.0	12.0	12.0	12.0	12.0		12.0	11.0
RTOR Vol			19			30			42			37

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A	P		SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		10.0	45.0			20.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	299	1770	0.27	0.68	17.4	B		
TR	1743	3410	0.73	0.51	20.0+	C	19.9	B
Westbound								
L	323	1770	0.61	0.68	15.6	B		
T	984	1925	1.17	0.51	108.1	F	91.3	F
R	809	1583	0.07	0.51	11.3	B		
Northbound								
L	103	440	2.44	0.23	709.5	F		
T	435	1863	0.14	0.23	27.4	C	328.5	F
R	633	1583	0.39	0.40	19.4	B		
Southbound								
LT	343	1471	0.99	0.23	79.6	E	61.8	E
R	604	1511	0.23	0.40	17.9	B		

Intersection Delay = 97.0 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.5

Analyst: RGD Inter.: ROUTE 202/35 & STONY STREET
 Agency: JCE Area Type: All other areas
 Date: 5/3/2012 Jurisd:
 Period: SATURDAY PEAK HOUR Year : 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646SATBD6 - WITH NYSDOT IMPROVEMENTS - OCR CLOSURE
 E/W St: ROUTE 202/35 N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	1	1	2	0	1	1	1	0	1	1
LGConfig	L	T	R	L	TR		L	T	R		LT	R
Volume	75	1148	223	239	915	68	220	53	328	166	126	59
Lane Width	12.0	12.0	12.0	12.0	14.0		12.0	12.0	12.0		12.0	11.0
RTOR Vol			67			5			6			24

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	P		NB Left	A	A	
Thru			P		Thru	A	A	
Right			P		Right	A	A	
Peds					Peds	X	X	
WB Left		A	P		SB Left		A	
Thru			P		Thru		A	
Right			P		Right		A	
Peds					Peds		X	
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		8.0	34.0			7.0	21.0	
Yellow		4.0	4.0			4.0	4.0	
All Red		1.0	1.0			1.0	1.0	

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/c	Delay	LOS	Delay	LOS
Eastbound								
L	260	1770	0.32	0.53	14.7	B		
T	1353	3478	0.93	0.39	34.3	C	30.7	C
R	604	1552	0.28	0.39	11.8	B		
Westbound								
L	260	1770	1.02	0.53	86.4	F		
TR	1422	3657	0.76	0.39	27.9	C	39.4	D
Northbound								
L	285	1760	0.86	0.38	49.6	D		
T	704	1863	0.08	0.38	18.0	B	27.2	C
R	827	1583	0.43	0.52	13.4	B		
Southbound								
LT	364	1488	0.89	0.24	54.9	D	50.9	D
R	593	1526	0.07	0.39	17.3	B		

Intersection Delay = 35.0- (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.5

Analyst: RGD Inter.: ROUTE 202/35 & STONY STREET
 Agency: JCE Area Type: All other areas
 Date: 5/3/2012 Jurisd:
 Period: SATURDAY PEAK HOUR Year : 2013 BUILD TRAFFIC VOLUMES
 Project ID: 1646SATBD6 - WITH OCR CLOSURE
 E/W St: ROUTE 202/35 N/S St: STONY STREET/BJ'S

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	1	1	1	1	1	0	1	1
LGConfig	L	TR		L	T	R	L	T	R		LT	R
Volume	75	1148	223	239	915	68	220	53	328	166	126	59
Lane Width	12.0	12.0		12.0	14.0	12.0	12.0	12.0	12.0		12.0	11.0
RTOR Vol			20			27			26			47

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
WB Left		A			SB Left	A		
Thru			P		Thru	A		
Right			P		Right	A		
Peds					Peds	X		
NB Right		A			EB Right			
SB Right		A			WB Right			
Green		10.0	40.0			15.0		
Yellow		4.0	4.0			4.0		
All Red		1.0	1.0			1.0		

Cycle Length: 80.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	336	1770	0.24	0.70	14.9	B		
TR	1748	3410	0.85	0.51	22.2	C	21.8	C
Westbound								
L	336	1770	0.79	0.70	31.7	C		
T	987	1925	1.03	0.51	56.2	E	49.7	D
R	811	1583	0.06	0.51	9.9	A		
Northbound								
L	92	460	2.65	0.20	805.7	F		
T	373	1863	0.16	0.20	26.5	C	320.4	F
R	613	1583	0.55	0.39	19.7	B		
Southbound								
LT	298	1488	1.09	0.20	109.4	F	105.8	F
R	583	1505	0.02	0.39	15.1	B		

Intersection Delay = 88.0 (sec/veh) Intersection LOS = F

Appendix D

Levels of Service Standards

LEVEL OF SERVICE FOR SIGNALIZED INTERSECTIONS

Level of Service (LOS) for signalized intersections is defined in terms of control delay, which is a measure of driver discomfort, frustration, fuel consumption, and increased travel time. The delay experienced by a motorist is made up of a number of factors that relate to control, geometrics, traffic, and incidents. Specifically, LOS criteria for traffic signals are stated in terms of the average control delay per vehicle, typically for a 15-minute analysis period. The criteria are given in Exhibit 16-2 from the 2000 Highway Capacity Manual published by the Transportation Research Board.

EXHIBIT 16-2

LEVEL OF SERVICE FOR SIGNALIZED INTERSECTIONS

LEVEL OF SERVICE (LOS)	CONTROL DELAY PER VEHICLE (S/VEH)
A	≤10
B	>10-20
C	>20-35
D	>35-55
E	>55-80
F	>80

LEVEL OF SERVICE A describes operations with low control delay, up to 10 seconds per vehicle (s/veh). This LOS occurs when progression is extremely favorable and most vehicles arrive during the green phase. Many vehicles do not stop at all. Short cycle lengths may tend to contribute to low delay values.

LEVEL OF SERVICE B describes operations with control delay greater than 10 and up to 20 seconds per vehicle (s/veh). This level generally occurs with good progression, short cycle lengths, or both. More vehicles stop than with Level of Service "A", causing higher levels of delay.

LEVEL OF SERVICE C describes operations with control delay greater than 20 and up to 35 seconds per vehicle (s/veh). These higher delays may result from only fair progression, longer cycle lengths, or both. Individual cycle failures may begin to appear at this level. The number of vehicles stopping is significant at this level, though many still pass through the intersection without stopping.

LEVEL OF SERVICE D describes operations with control delay greater than 35 and up to 55 seconds per vehicle (s/veh). At Level of Service D, the influence of congestion becomes more noticeable. Longer delays may result from some combination of unfavorable progression, long cycle lengths, and high v/c ratios. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.

LEVEL OF SERVICE E describes operations with control delay greater than 55 and up to 80 seconds per vehicle (s/veh). This is considered to be the limit of acceptable delay. These high delay values generally indicate poor progression, long cycle lengths, and high v/c ratios. Individual cycle failures are frequent.

LEVEL OF SERVICE F describes operations with control delay in excess of 80 seconds per vehicle (s/veh). This level is considered unacceptable to most drivers, often occurs with oversaturation, that is, when arrival flow rates exceed the capacity of the groups. It may also occur at high v/c ratios with many individual cycle failures. Poor progression and long cycle lengths may also contribute significantly to high delay levels.

LEVEL OF SERVICE CRITERIA FOR UNSIGNALIZED INTERSECTIONS

The Level of Service (LOS) for unsignalized intersections is determined by the computed or measured control delay and is defined for each minor movement. Control delay is defined as the total elapsed time a vehicle stops at the end of the queue to the time the vehicle departs from the stop line. This total elapsed time includes the time required for the vehicle to travel from the last-in-queue position to the first-in-queue position, including deceleration of vehicles from free-flow speed to speed of vehicles in queue. Average control delay for any particular minor movement is a function of the capacity of the approach and the degree of saturation. The Level of Service Criteria are given in Exhibit 17-2 from the 2000 Highway Capacity Manual published by the Transportation Research Board.

EXHIBIT 17-2

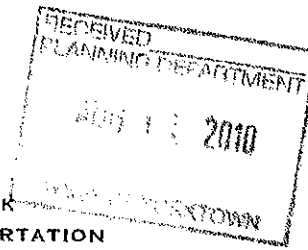
LEVEL OF SERVICE FOR CRITERIA
FOR UNSIGNALIZED INTERSECTIONS

LEVEL OF SERVICE (LOS)	AVERAGE CONTROL DELAY (S/VEH)
A	0-10
B	>10-15
C	>15-25
D	>25-35
E	>35-50
F	>50

The Level of Service Criteria for unsignalized intersections are somewhat different from the criteria for signalized intersections.

Appendix E

Accident Data Summary



CC
PLAN. BOARD
TOWN BOARD
PLAN. DEP.
Highway
Engineer

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
REGION EIGHT
4 BURNETT BOULEVARD
POUGHKEEPSIE, NEW YORK 12603
www.nysdot.gov

WILLIAM J. GORTON, P.E.
ACTING REGIONAL DIRECTOR

STANLEY GEE
ACTING COMMISSIONER

August 9, 2010

TOWN CLERK'S OFFICE

AUG 11 2010

TOWN OF YORKTOWN NY

Town of Yorktown Planning Board
Alice E. Roker
Town Clerk
363 Underhill Road
Yorktown Heights, NY 10598

Re: PIN AW08.03.70K, SEQRA 10-0122, Costco
Route 100, Town of Yorktown
Westchester County

Dear Ms. Roker:

The New York State Department of Transportation consents to the Town of Yorktown serving as lead agency for the SEQRA review for this project.

The New York State Department of Transportation has a specific fee schedule and procedures for the processing of Highway Work Permits for Major Developments. Due to the size of the subject project, the following information/documentation must be submitted prior to the Department undertaking any additional or new review:

1. The applicant shall submit a HIGHWAY WORK PERMIT APPLICATION FOR NON-UTILITY WORK (PERM 33). It must be signed by the applicant and the name/address provided in the upper left hand corner. The remaining information will be completed at a later date.
2. The applicant shall submit a PERMIT AGREEMENT FOR HIGHWAY WORK PERMITS DESIGN REVIEW (PERM 51) must be completed by the applicant. The Application No. and PIN will be filled in by the Regional Traffic Engineering & Safety Group. The applicant should be aware that the \$2,000 fee referenced thereon shall be the minimum cost for the Department's review time and is non-refundable. Hereafter, all Department employees assigned the responsibility of reviewing any documents, plans, maps, etc., which are directly related to the subject proposal, shall charge their review time to this project. The applicant will then be billed periodically by the Department for the actual cost of our review and processing of the respective project. Such billings which exceed the minimum \$2,000 initial fee must be paid immediately upon receipt or the Highway Work Permit shall not be issued, or shall be revoked.
3. A check for \$2,000 made out to the New York State Department of Transportation.
4. 7 sets of plans, 1 copy of drainage study/SWPPP on disc, 1 copy of Synchro analysis of affected intersections on disc, 1 copy of the Traffic Impact Study (TIS) on disc.
5. A Priority Investigation Location (PIL) has been identified near this development. It is on Rt 35/202 between reference marker 35 8701 2038 and 9 8701 2042. A Highway Safety Investigation (HSI) study and proposed mitigation is required for this PIL segment. Please contact Region 8 Safety Program for guidance

The aforementioned documents should be returned to the undersigned so that the project's review can be authorized.

Very truly yours,

Terence J. Donoghue, P.E.
Regional Highway Work Permit Coordinator

cc: S. Sprague Permit Engineer, Res 8-8
Westchester County Planning Board

DETAILS OF ACCIDENT HISTORY

PERIOD STUDIED:		ROUTE NUMBER/STREET NAME:		CASE No.								
FROM:	DATE	LOCATION:	MUNICIPALITY:	COUNTY:	FILE:							
TO:	36 MONTHS	STONY STREET TO STRANG BOULEVARD	YORKTOWN	WESTCHESTER	BY: RGD							
		REFERENCE MARKERS / NODES:		DATE: 12/1/2010								
No.	DATE	TIME	# VEHICLES	SEVERITY	LIGHT COND	ROAD CHAR	SURFACE	WEATHER	CONTRIB. FACTORS	ACC. TYPE	ACCIDENT DESCRIPTION	KEY#
OLD CROMPOD ROAD												
1	7/26/2007	1:44 PM	2	1	1	2	1	1	7	Ltn	V1 Making Left Turn From Johnny's Deli Struck V2 Traveling Eastbound	2040
2	12/15/2007	6:50 PM	2	-	4	1	1	2	9	Rend	V2 Rearended V1, Both Traveling Westbound	2040
3	4/30/2009	7:44 PM	1	PDO	3	2	1	2	61	Annl	V1 Traveling Westbound Struck Deer	2039
4	6/7/2009	7:25 PM	1	PDO	1	2	1	1	61	Annl	V1 Traveling Eastbound Struck Deer	2038
5	6/26/2009	2:04 PM	3	PDO	1	3	0	1	66	9	V1 Stopped to Make Left Turn, V2 Rearended V1, V3 Rearended V2	2040
6	7/17/2009	7:40 AM	3	1	1	1	1	1	4	21	V3 Rearended V2 Traveling Westbound, V2 Then Struck V1 Traveling Eastbound	2041
7	7/23/2009	2:51 PM	2	PDO	1	3	1	1	18	Other	V1 Making Left to WB Route 202, V2 Making Left to EB Route 202, Vehicles Collided	2041
MOHANSIC AVENUE												
8	5/4/2007	6:37 AM	4	-	2	2	1	1	4	Rend	V2 Rearended V1, V3 Rearended V2, V4 Rearended V3, All Traveling Eastbound	2041
9	5/31/2007	5:05 PM	2	NA	1	3	1	1	18	Ltn	V1 Making Left Turn to Mohansic Avenue Struck V2 Traveling Eastbound	2041
10	6/12/2007	4:49 PM	2	PDO	1	3	1	2	7	Ltn	V2 Traveling Eastbound Struck by V1 Making Left Turn onto Mohansic Avenue	2041
11	7/25/2007	1:22 PM	2	-	1	2	1	1	9	Rend	V1 Rearended V2 Stopping to Avoid Truck, Both Traveling Westbound	2041
12	8/6/2007	1:37 PM	2	PDO	1	2	1	2	20	Other	V2 Changing Lanes Unsafely Struck V1, Both Traveling Westbound	2041
13	12/6/2007	4:57 PM	2	1	3	2	1	1	7	Ltn	V1 Traveling EB on Route 357/202 Struck by V2 Making Left Turn to Mohansic Ave	2041
14	1/9/2008	6:04 PM	2	PDO	4	2	1	1	4	Rend	V1 Stopped at Light Rearended by V2 Traveling Eastbound	2041
15	1/17/2008	6:30 AM	2	1	4	2	1	1		Rend	V1 Stopped at Light Rearended by V2 Traveling Eastbound	2040
16	3/25/2008	10:09 AM	2	1	1	5	1	1	26	Rend	V2 Rearended V1 Stopping for Tractor Backing into Road, Both Traveling WB	2041
17	4/1/2008	9:00 AM	2	PDO	1	2	2	3	3	60	V1 Backing up in Eastbound Right Turn Lane Backed into V2	2038
18	5/9/2008	4:00 PM	2	PDO	1	2	2	3	4	Rend	V2 Rearended V1 Stopped at Light, Both Traveling Eastbound	2041
19	5/15/2008	4:04 PM	2	-	1	3	1	1	7	Other	V2 Changing Lanes Struck V1, Both Traveling Westbound	2042
20	5/21/2008	3:38 PM	2	PDO	1	2	1	1		Ltn	V2 Making Left Turn on Mohansic Avenue Struck by V1 Traveling Eastbound	1006
21	6/7/2008	3:23 PM	2	PDO	1	2	1	1	9	62	V1 Stopped at Light Westbound Rearended by V2 Traveling Westbound	2041
22	7/6/2008	9:43 AM	2	1	1	2	1	2	7	Ltn	V1 Making Left Turn From Mobile Station Struck by V2 Traveling Eastbound	2038
23	9/19/2008	5:34 PM	2	PDO	1	2	1	1	9	Rend	V2 Rearended V1	2041
24	12/20/2008	1:49 PM	2	PDO	1	3	4	2	66	18	V1 Making Left Turn on Mohansic Avenue Struck V2 Traveling Eastbound	2041
25	1/28/2009	7:45 AM	2	PDO	1	3	4	2	4	Ovrt	V1 Struck V2 Stopped in Traffic in Right Lane With Plow	2041
26	2/25/2009	6:44 AM	2	PDO	1	2	1	1		Rang	V1 Traveling Eastbound Struck V2 Making Left From Mohansic Avenue	2042
27	2/29/2009	6:48 PM	2	PDO	5	1	1	2	7	18	V2 Making Left Turn onto Mohansic Ave Blocked by Uninvolved Vehicle Struck V2	2039
28	4/24/2009	8:05 AM	2	PDO	1	2	1	1	7	69	V1 Making Left Turn from Mobil Station Struck V2 in Left Through Lane	2042
29	10/20/2009	5:46 AM	2	PDO	4	2	1	2	18	Rang	V1 Traveling EB Struck by V2 Traveling WB Attempting to Make Left Turn	2041
30	12/15/2009	5:03 PM	2	1	4	1	1	1	7	69	V1 Making Left Turn onto Mohansic Ave Collided with V2 Traveling EB on Route 202	2041
31	2/23/2010	10:20 PM	2	PDO	4	6	4	4	66	Rend	V2 Rearended V1 Stopped at Light, Both Traveling Westbound	-

DETAILS OF ACCIDENT HISTORY

PERIOD STUDIED:		ROUTE NUMBER/STREET NAME: U.S. ROUTE 202/INYS ROUTE 35		CASE No. _____								
FROM: 5/1/2007		LOCATION: STONY STREET TO STRANG BOULEVARD		FILE: _____								
TO: 4/30/2010		MUNICIPALITY: YORKTOWN COUNTY: WESTCHESTER		BY: RGD								
36 MONTHS		REFERENCE MARKERS / NODES:		DATE: 12/1/2010								
No.	DATE	TIME	WEATHER	SURFACE	ROAD CHAR	LIGHT COND	SEVERITY	# VEHICLES	CONTRIB. FACTORS	ACC. TYPE	ACCIDENT DESCRIPTION	KEY#

TACONIC STATE PARKWAY SB ON/OFF RAMP												
32	4/19/2007	10:01 PM			2	5	PDO	2	9	Rend	V2 Rearended V1 Slowing in Traffic, Both Traveling Westbound	2042
33	7/2/2007	2:00 PM	1	2	1	2	PDO	2	17	Rang	V1 Making Left of TSP SB Ramp Struck by V2 Traveling Eastbound	2041
34	8/15/2007	11:39 AM	1	3	1	1	PDO	2	9	Rend	V2 Rearended V1 Stopping for an Uninvolved Vehicle, Both Traveling Eastbound	2041
35	9/4/2007	1:56 PM	2	2	1	1	PDO	2	9	Rend	V1 Slowing in Traffic for Uninvolved Vehicle Struck by V2, Both Traveling WB	2041
36	10/10/2007	4:11 PM	2	3	2	2	PDO	2	7	Ltn	V2 Turning Left to TSP SB Struck V1 Traveling EB on Route 202	2040
37	11/30/2007	12:10 PM	2	3	1	1	-	2	9	Rend	V2 Rearended V1 Slowing in Traffic, Both Traveling Westbound	2041
38	12/9/2007	8:15 AM	1	2	1	2	PDO	1	61	Anrml	V1 Traveling Westbound Struck by Deer on Front Right of Vehicle	-
39	5/20/2008	3:00 PM	2	2	2	3	PDO	2	9	Rend	V1 Stopping for Traffic was Rearended by V2, Both Traveling Westbound	2042
40	6/2/2008	5:00 PM	2	2	1	4	PDO	2	4	Rend	V2 Rearended V1 Stopped in Traffic, Both Traveling Eastbound	2041
41	10/8/2008	7:30 AM	2	1	1	1	PDO	1	9	Rend	V1 Rearended V2, Both Traveling Southbound on TSP Off Ramp	1170
42	11/6/2008	2:24 PM	2	2	2	2	-	2	9	Rend	V2 Rearended by V1 Due to Slippery Road, Both Traveling Westbound	2041
43	12/7/2008	6:33 AM	2	2	2	2	-	2	9	Rend	V2 Rearended V1, Both Traveling WB Stopping to Make Left Turn on SB TSP	2041
44	2/8/2009	5:50 PM	2	2	1	1	PDO	2	9	Rend	V1 Rearended by V2, Both Traveling Eastbound in Right Lane	2041
45	5/9/2009	1:36 PM	3	1	2	1	-	3	60	Rend	V1 Rearended V2, V2 Rearended V3, All Traveling Eastbound	2042
46	5/19/2009	5:15 PM	3	1	3	1	1	3	7	Ltn	V3 Rearended V2, V2 Rearended V1, All Traveling Eastbound	2041
47	9/15/2009	8:23 AM	2	1	1	1	1	1	4	Rend	V1 Struck by V2 Making Left on SB Ramp	2042
48	11/9/2009	6:29 AM	2	2	2	4	1	2	61	Anrml	V1 Rearended V2 Stopped in Traffic, Both Traveling WB in Left Turn Lane	-
49	2/22/2010	11:00 PM	1	5	1	2	PDO	5	17	Rang	V1 Traveling Westbound Struck Deer	2041
50	3/22/2010	12:36 PM	2	1	2	3	1	2	69	Rang	V2 Making Left To Eastbound Route 202 Struck By V1 Traveling WB Ran Red Light	2041

TACONIC STATE PARKWAY NB ON/OFF RAMP												
51	6/9/2007	9:18 PM			4	2	PDO	2	17	Ltn	V2 Making Left Turn to WB Route 202 Struck by V1 Traveling WB Ran Red Light	2042
52	8/21/2007	12:20 PM	2	2	2	3	PDO	1	26	Ovrt	V1 Stopped in Traffic, V2 Swerved to Avoid Uninvolved Vehicle Sideswiped V1	2042
53	11/16/2007	10:11 PM	2	3	1	1	PDO	4	9	Rend	V2 Rearended V1, Both Traveling Eastbound	2041
54	1/15/2008	5:56 PM	3				PDO		9	Rend	V1 and V2 Stop at Light at TSP, V3 Rearended V2 Causing V2 to Rearend V1	2041
55	3/31/2008	5:15 PM	4	1	1	3	1	1	27	HdOn	V4 Traveling WB Struck V1 Waiting to Make Left onto TSP NB, V1 Struck V2 and V3	2041
56	4/8/2008	5:30 PM	2	1	2	1	1	1	26	Rend	V2 Rearended V1 Stopping Abruptly in Traffic, Both Traveling Eastbound	2042
57	4/19/2008	3:37 PM	2	1	1	1	-	2	9	Rend	V2 Rearended By V1, Both Traveling Northbound	2042
58	5/4/2008	1:28 PM	2	1	2	1	-	2	7	Rang	V2 Making a Right Turn on Red From TSP NB Exit Ramp Struck V1 Traveling EB	2042
59	5/4/2008	1:28 PM	2	1	1	1	PDO	1	9	Rtn	V1 Traveling EB Struck By V2 Making Right Turn on Red From TSP NB Off Ramp	-
60	5/15/2008	7:00 AM	2	1	3	2	PDO	1	9	Rend	V1 Rearended by V2, Both Traveling Westbound	2041
61	6/2/2008	10:32 AM	1	1	1	1	1	1	26	Othr	V1 in Pursuit of V2 Made Abrupt U-Turn, Avoiding V2, V1 Hit Road Sign	2042
62	6/18/2008	12:00 PM	3	1	1	2	PDO	1	9	Rend	V1 Stopped at Light Rearended by V2, V2 Rearended by V3, All Traveling WB	2041
63	9/14/2008	4:31 PM	2	1	1	1	-	2	17	Othr	V1 Changing Lanes to Make Left Turn Struck by V2 Passing in Striped Yellow Area	2040
64	11/26/2008	12:56 PM	2	1	2	1	-	2	9	Rend	V1 Rearended V1 Slowing in Traffic, Both Traveling Eastbound	2041
65	7/18/2009	1:27 PM	2	1	1	1	-	2	4	Rend	V2 Rearended V1, Both Traveling Northbound	2041
66	9/1/2009	2:56 PM	5	1	2	1	1	1	4	Rend	V2, V3, V4, V5 All Rearended Due to V1 Rearending V2, All Traveling Eastbound	2041
67	10/4/2009	11:00 AM	2	1	1	1	PDO	1	7	Rtn	V2 Traveling Eastbound Struck by V1 Making Right Turn from NB Exit Ramp	2042
68	12/2/2009	4:05 PM	2	1	3	2	1	1	9	Rend	V2 Rearended V1 Stopped in Traffic, Both Traveling Eastbound	2042

DETAILS OF ACCIDENT HISTORY

PERIOD STUDIED:		ROUTE NUMBER/STREET NAME: U.S. ROUTE 202/NYS ROUTE 35		CASE No. _____								
FROM: 5/1/2007		LOCATION: STONY STREET TO STRANG BOULEVARD		FILE: _____								
TO: 4/30/2010		MUNICIPALITY: YORKTOWN COUNTY: WESTCHESTER		BY: RGD								
36 MONTHS		REFERENCE MARKERS / NODES:		DATE: 12/1/2010								
No.	DATE	TIME	# VEHICLES	SEVERITY	LIGHT COND	ROAD CHAR	SURFACE	WEATHER	CONTRIB. FACTORS	ACC. TYPE	ACCIDENT DESCRIPTION	KEY#
STRANG BOULEVARD												
69	4/29/2009	5:21 PM	2	1	1	1	1	1	18	Othr	V2 Making U-Turn Struck Ambulance Responding to HVHC, Both Traveling WB	2043
70	6/8/2009	2:07 PM	2	-	1	1	1	1	4	Rend	V2 Attempted Making Right Turn on Red Stop Short then Rearended by V1	2043
71	8/28/2009	2:00 PM	2	PDO	1	1	2	3	18 20	Rtn	V1 Began Right Turn Then Turned Left to Continue WB on 202 Struck V2 Passing	2043
72	9/4/2009	12:43 PM	2	-	1	1	1	1	9	Rend	V2 Rearended V1 Slowing in Traffic, Both Traveling Westbound	2043
OTHER ACCIDENT LOCATIONS												
73	3/21/2010	6:00 PM	2	-	1	3	1	1	9	Rend	V2 Rearended V1 Stopped in Traffic, Both Traveling Eastbound	2042
74	8/5/2008	9:50 AM	2	1	1	1	1	1		Rend	V1 Stopped in Traffic Rearended By V2	-
75	11/21/2007	10:30 AM	1	PDO	1	2	2	3		FixO	V1 Trying to Avoid V2 Making Left Turn Struck Guardrail	-

ABBREVIATIONS:

- INJ - Injury
- FAT - Fatal Injury
- PDO - Property Damage Only
- Rend - Rear End
- Ovrk - Overtake
- Rtn - Right Turn
- LT - Left Turn
- TR - Right Turn
- L/L - Left Lane
- R/L - Right Lane
- C/L - Center Lane
- Othr - Other
- Key # - Reference Marker Location
- NB - Northbound
- SB - Southbound
- EB - Eastbound
- WB - Westbound
- SkdG - Skidding
- Bike - Bicycle
- Park - Parked Vehicle
- Anml - Animal
- Back - Backing
- Ped - Pedestrian
- LTn - Left Turn
- Rang - Right Angle
- Side - Sideswipe
- HdOn - Head On
- Ovrt - Overtaken
- FixO - Fixed Object

Appendix F

Existing Public Transportation Services

Cash and MetroCard Fares on this Route
Effective December 30, 2010

COMING SOON

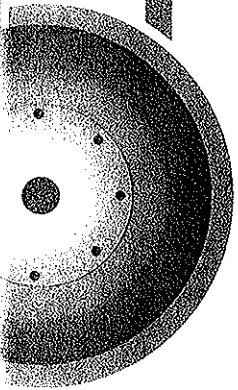
Croton

WE'RE DEPARTING SOON!

ALSO SERVING

- Croton RR Station
- Yorktown
- Shrub-Oak
- Molegnan Lake

Westchester
gov.com



Westchester County Department of Transportation
100 E. 1st Street, Mt. Vernon, N.Y. 10550
Robert P. Astorino, Westchester County Executive

(914) 813-7777

... MetroCard is a reduced-rate ticket that combines monthly round-trip local bus service with train fare, UniTicket is available through any Metro-North ticket office. Accepted for one fare to/from the railroad station listed on the ticket.

A transfer may not be purchased when boarding with a UniTicket.

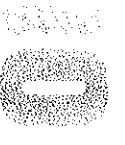
Senior/Senior/Disabled/Reduced Fare \$52.00
ADvy Senior/Disabled/Reduced Fare \$14.50

Transfers:

- (1) Paper transfers will be accepted on all local routes except the same route initially boarded. Paper transfers must be obtained at time of boarding.
 - (2) Pay-Per-Ride MetroCards will be accepted on all Be-Line routes except the same route initially boarded, NYC local buses and subways with no additional fare charged to the card within two hours of the initial boarding.
- Pay-Per-Ride MetroCards require a minimum \$ 4.50 (round trip) purchase and may be obtained at numerous local merchants, New York City Subway Stations and Metro-North Railroad Stations. Purchases of \$ 10 or more earn a 7% bonus.
- Senior/Disabled reduced fares are available to riders at least 65 years of age, certified disabled persons and valid Medicare card holders with proper identification. MetroCard Reduced Fares are only available to holders of personalized Reduced Fare MetroCards. For more information, call (718) 330-1234 or log on to the MTA website at www.mta.info/metrocard.

Fares, schedule and information are subject to change.
24-hour Automated Schedule Information
(914) 813-7777

For the hearing impaired call (914) 813-7777
Customer service representatives are available
9am-10:45pm weekdays



Croton Commuter

Only selected bus stops (time points) are listed here. For additional stops call: (914) 813-7777

HOLIDAY SCHEDULE

Use The Weekday Schedule For:
 Lincoln's Birthday
 Columbus Day
 Election Day
 Veteran's Day

No Service On:
 New Year's Day
 M. L. King Jr Day
 Presidents' Day
 Memorial Day
 Independence Day
 Labor Day
 Thanksgiving
 Christmas

Cortlandt Town Center and Yorktown to Croton		Croton to Yorktown and Cortlandt Town Center	
Time Points	Time Points	Time Points	Time Points
Cortlandt Town Center	Shrub Oak Shopping Center	5:33	5:38
Rte. 132 at Rte. 202/35	Rte. 132 at Rte. 202/35	6:00	6:05
Commerce St & Downing Dr	Commerce St & Downing Dr	6:34	6:39
Yorktown Heights	Yorktown Heights	6:51	6:58
Croton RR Sta. (Hudson Line)	Croton RR Sta. (Hudson Line)	5:45	5:53
Leaves Croton-Harmon	Train To New York	6:12	6:20
	Arrives Croton-Harmon	6:46	6:40
		6:54	7:14
		7:17	7:37
		6:18	6:18
		6:47	6:47
		7:19	7:19
		7:44	7:44

Croton to Yorktown and Cortlandt Town Center		Croton to Yorktown and Cortlandt Town Center	
Time Points	Time Points	Time Points	Time Points
Train To Poughkeepsie	Arrives Croton-Harmon	5:43	6:08
Croton RR Sta. (Hudson Line)	Croton RR Sta. (Hudson Line)	6:47	6:47
Commerce St & Downing Dr	Commerce St & Downing Dr	6:17	6:17
Yorktown Heights	Yorktown Heights	6:51	6:51
Rte. 132 at Rte. 202/35	Rte. 132 at Rte. 202/35	7:11	7:11
Shrub Oak Shopping Center	Shrub Oak Shopping Center	7:58	7:58
Cortlandt Town Center	Cortlandt Town Center	6:15	6:15
		6:45	6:45
		7:19	7:19
		8:06	8:06
		6:22	6:22
		6:52	6:52
		7:26	7:26
		8:13	8:13
		6:27	6:27
		6:57	6:57
		7:31	7:31
		8:18	8:18

LIGHT TYPE AND SHADE - AM TIMES

DARK TYPE AND SHADE - PM TIMES

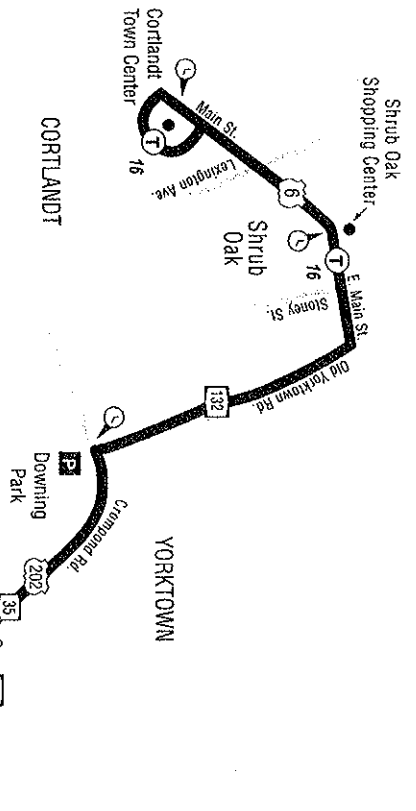
FORGET SOMETHING?

Please remember to take all your personal items with you. The Bee-line is not responsible for your personal items or packages. UNATTENDED ITEMS ARE SUBJECT TO IMMEDIATE DISPOSAL. To inquire about lost items, call (914) 376-6361.



Please be courteous to your fellow passengers and refrain from using cell phones on the bus. Thank you.

Westchester
 gov.com
 Department of Transportation
 100 E. 1st Street
 Yonkers, N.Y. 10550

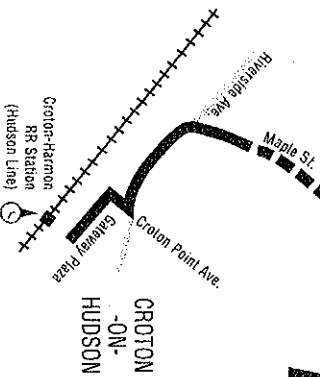


Time Points
 These are the places or street intersections listed at the top of the schedule and shown on the map. Read beneath the appropriate time point headings on the schedule to determine bus departure and trip travel times.

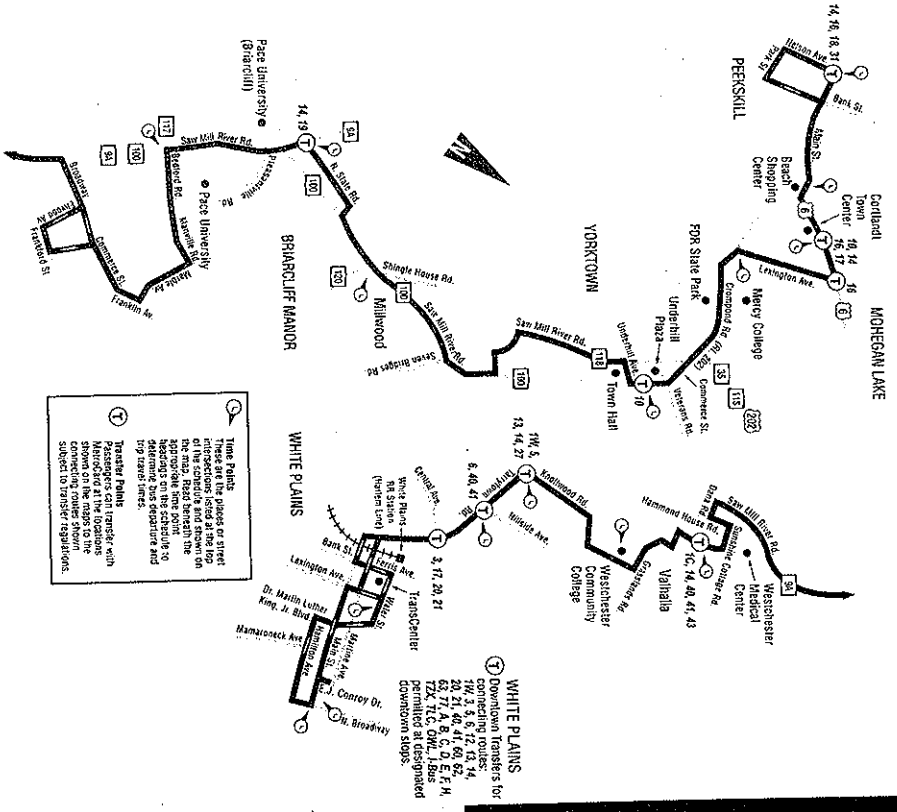
Transfer Points
 Passengers can transfer with Metro-North at the locations shown on the maps to the connecting routes shown subject to transfer regulations.

Nonstop Service

Park-and-Ride Locations



the bee-line system cannot accept responsibility for late trains or changes in Metro-North schedules.
 Metro-North Railroad



Cash and MetroCard Fares on This Route

Effective September 26, 2012

Fare Type	Price
Cash Fares (Coins Only)	\$2.25
One Ride	FREE
Paper Transfer to Bee-Line & NYC Buses	\$1.10
Senior/Disabled Reduced Fare One Ride	FREE
Senior/Disabled Transfer to Bee-Line & NYC Buses	FREE
Pop-Pop-Ride MetroCard Fares (Includes One Transfer to Bee-Line Buses, NYC Subways)	\$ 2.25
One Ride with Transfer	\$ 1.10
Senior/Disabled Reduced Fare One Ride with Transfer	FREE
Unlimited Ride MetroCard Fares (Good on Bee-Line Buses, NYC Buses and Subways)	\$104.00
30 Days	\$29.00
7 Days	\$52.00
30-Day Senior/Disabled Reduced Fare	\$14.50
7-Day Senior/Disabled Reduced Fare	\$14.50

Transfers:

- (1) Paper transfers will be accepted on all local routes except the same route initially boarded. Paper transfers must be obtained at time of boarding.
- (2) Pop-Pop-Ride MetroCards will be accepted on all Bee-Line routes except the same route initially boarded. NYC local buses and subways with no additional fare charged to the card within two hours of the initial boarding.

Pop-Pop-Ride MetroCards require a minimum \$4.50 round trip purchase and may be obtained at numerous local merchants, New York City Subway Stations and Metro-North Railroad Stations. Purchases of \$1.00 or more earn a 7% bonus.

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Fares, schedules and equipment are subject to change.

74 River Avenue, Schenectady, NY 12304

914-613-7777

www.mta.com

LOCAL 15

Westchester Medical Center
 Westchester Community College
 Cortland Town Center
 Beach Shopping Center

the bee-line system

ALSO SERVING

- Millwood
- Westchester Medical Center
- Westchester Community College
- Cortland Town Center
- Beach Shopping Center

Westchester
gov.com

914-332-7777

Peekskill Yorktown White Plains

Only selected bus stops (time points) are listed here. For additional stops call (914) 813-3773

Use the Weekday Schedule for
Columbus Day
Veteran's Day

Use the Saturday Schedule for:
M. L. King Jr Day
President's Day
No Service Day
New Year's Day
Memorial Day
Independence Day
Labour Day
Thanksgiving
Christmas

Time Points

6:00	6:05	6:10	6:15	6:20	6:25	6:30	6:35	6:40	6:45	6:50	6:55	7:00	7:05	7:10	7:15	7:20	7:25	7:30	7:35	7:40	7:45	7:50	7:55	8:00	8:05	8:10	8:15	8:20	8:25	8:30	8:35	8:40	8:45	8:50	8:55	9:00	9:05	9:10	9:15	9:20	9:25	9:30	9:35	9:40	9:45	9:50	9:55	10:00	10:05	10:10	10:15	10:20	10:25	10:30	10:35	10:40	10:45	10:50	10:55	11:00	11:05	11:10	11:15	11:20	11:25	11:30	11:35	11:40	11:45	11:50	11:55	12:00	12:05	12:10	12:15	12:20	12:25	12:30	12:35	12:40	12:45	12:50	12:55	13:00	13:05	13:10	13:15	13:20	13:25	13:30	13:35	13:40	13:45	13:50	13:55	14:00	14:05	14:10	14:15	14:20	14:25	14:30	14:35	14:40	14:45	14:50	14:55	15:00	15:05	15:10	15:15	15:20	15:25	15:30	15:35	15:40	15:45	15:50	15:55	16:00	16:05	16:10	16:15	16:20	16:25	16:30	16:35	16:40	16:45	16:50	16:55	17:00	17:05	17:10	17:15	17:20	17:25	17:30	17:35	17:40	17:45	17:50	17:55	18:00	18:05	18:10	18:15	18:20	18:25	18:30	18:35	18:40	18:45	18:50	18:55	19:00	19:05	19:10	19:15	19:20	19:25	19:30	19:35	19:40	19:45	19:50	19:55	20:00	20:05	20:10	20:15	20:20	20:25	20:30	20:35	20:40	20:45	20:50	20:55	21:00	21:05	21:10	21:15	21:20	21:25	21:30	21:35	21:40	21:45	21:50	21:55	22:00	22:05	22:10	22:15	22:20	22:25	22:30	22:35	22:40	22:45	22:50	22:55	23:00	23:05	23:10	23:15	23:20	23:25	23:30	23:35	23:40	23:45	23:50	23:55	24:00	24:05	24:10	24:15	24:20	24:25	24:30	24:35	24:40	24:45	24:50	24:55	25:00
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Monday - Friday

White Plains to Yorktown & Peekskill

6:00	6:05	6:10	6:15	6:20	6:25	6:30	6:35	6:40	6:45	6:50	6:55	7:00	7:05	7:10	7:15	7:20	7:25	7:30	7:35	7:40	7:45	7:50	7:55	8:00	8:05	8:10	8:15	8:20	8:25	8:30	8:35	8:40	8:45	8:50	8:55	9:00	9:05	9:10	9:15	9:20	9:25	9:30	9:35	9:40	9:45	9:50	9:55	10:00	10:05	10:10	10:15	10:20	10:25	10:30	10:35	10:40	10:45	10:50	10:55	11:00	11:05	11:10	11:15	11:20	11:25	11:30	11:35	11:40	11:45	11:50	11:55	12:00	12:05	12:10	12:15	12:20	12:25	12:30	12:35	12:40	12:45	12:50	12:55	13:00	13:05	13:10	13:15	13:20	13:25	13:30	13:35	13:40	13:45	13:50	13:55	14:00	14:05	14:10	14:15	14:20	14:25	14:30	14:35	14:40	14:45	14:50	14:55	15:00	15:05	15:10	15:15	15:20	15:25	15:30	15:35	15:40	15:45	15:50	15:55	16:00	16:05	16:10	16:15	16:20	16:25	16:30	16:35	16:40	16:45	16:50	16:55	17:00	17:05	17:10	17:15	17:20	17:25	17:30	17:35	17:40	17:45	17:50	17:55	18:00	18:05	18:10	18:15	18:20	18:25	18:30	18:35	18:40	18:45	18:50	18:55	19:00	19:05	19:10	19:15	19:20	19:25	19:30	19:35	19:40	19:45	19:50	19:55	20:00	20:05	20:10	20:15	20:20	20:25	20:30	20:35	20:40	20:45	20:50	20:55	21:00	21:05	21:10	21:15	21:20	21:25	21:30	21:35	21:40	21:45	21:50	21:55	22:00	22:05	22:10	22:15	22:20	22:25	22:30	22:35	22:40	22:45	22:50	22:55	23:00	23:05	23:10	23:15	23:20	23:25	23:30	23:35	23:40	23:45	23:50	23:55	24:00	24:05	24:10	24:15	24:20	24:25	24:30	24:35	24:40	24:45	24:50	24:55	25:00
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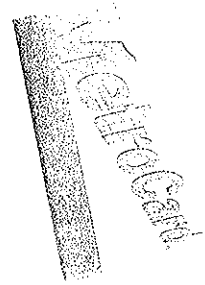
Saturday

White Plains to Yorktown & Peekskill

6:00	6:05	6:10	6:15	6:20	6:25	6:30	6:35	6:40	6:45	6:50	6:55	7:00	7:05	7:10	7:15	7:20	7:25	7:30	7:35	7:40	7:45	7:50	7:55	8:00	8:05	8:10	8:15	8:20	8:25	8:30	8:35	8:40	8:45	8:50	8:55	9:00	9:05	9:10	9:15	9:20	9:25	9:30	9:35	9:40	9:45	9:50	9:55	10:00	10:05	10:10	10:15	10:20	10:25	10:30	10:35	10:40	10:45	10:50	10:55	11:00	11:05	11:10	11:15	11:20	11:25	11:30	11:35	11:40	11:45	11:50	11:55	12:00	12:05	12:10	12:15	12:20	12:25	12:30	12:35	12:40	12:45	12:50	12:55	13:00	13:05	13:10	13:15	13:20	13:25	13:30	13:35	13:40	13:45	13:50	13:55	14:00	14:05	14:10	14:15	14:20	14:25	14:30	14:35	14:40	14:45	14:50	14:55	15:00	15:05	15:10	15:15	15:20	15:25	15:30	15:35	15:40	15:45	15:50	15:55	16:00	16:05	16:10	16:15	16:20	16:25	16:30	16:35	16:40	16:45	16:50	16:55	17:00	17:05	17:10	17:15	17:20	17:25	17:30	17:35	17:40	17:45	17:50	17:55	18:00	18:05	18:10	18:15	18:20	18:25	18:30	18:35	18:40	18:45	18:50	18:55	19:00	19:05	19:10	19:15	19:20	19:25	19:30	19:35	19:40	19:45	19:50	19:55	20:00	20:05	20:10	20:15	20:20	20:25	20:30	20:35	20:40	20:45	20:50	20:55	21:00	21:05	21:10	21:15	21:20	21:25	21:30	21:35	21:40	21:45	21:50	21:55	22:00	22:05	22:10	22:15	22:20	22:25	22:30	22:35	22:40	22:45	22:50	22:55	23:00	23:05	23:10	23:15	23:20	23:25	23:30	23:35	23:40	23:45	23:50	23:55	24:00	24:05	24:10	24:15	24:20	24:25	24:30	24:35	24:40	24:45	24:50	24:55	25:00
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9:28	9:32	9:38	9:49	10:02	10:16	10:22	10:26	10:30	10:47	10:54	11:08	11:13	12:14	12:20	12:26	12:37	12:50	1:04	1:10	1:14	1:18	1:33	1:42	1:56	2:01	3:58	4:04	4:10	4:21	4:34	4:48	4:54	5:02	5:19	5:26	5:30	5:36	5:43	5:48	5:54	5:59	6:05	6:09	6:13	6:30	6:37	6:53	6:57	7:04	7:09	7:14	7:19	7:24	7:29	7:34	7:39	7:44	7:49	7:54	7:59	8:04	8:09	8:14	8:19	8:24	8:29	8:34	8:39	8:44	8:49	8:54	8:59	9:04	9:09	9:14	9:19	9:24	9:29	9:34	9:39	9:44	9:49	9:54	9:59	10:04	10:09	10:14	10:19	10:24	10:29	10:34	10:39	10:44	10:49	10:54	10:59	11:04	11:09	11:14	11:19	11:24	11:29	11:34	11:39	11:44	11:49	11:54	11:59	12:04	12:09	12:14	12:19	12:24	12:29	12:34	12:39	12:44	12:49	12:54	12:59	13:04	13:09	13:14	13:19	13:24	13:29	13:34	13:39	13:44	13:49	13:54	13:59	14:04	14:09	14:14	14:19	14:24	14:29	14:34	14:39	14:44	14:49	14:54	14:59	15:04	15:09	15:14	15:19	15:24	15:29	15:34	15:39	15:44	15:49	15:54	15:59	16:04	16:09	16:14	16:19	16:24	16:29	16:34	16:39	16:44	16:49	16:54	16:59	17:04	17:09	17:14	17:19	17:24	17:29	17:34	17:39	17:44	17:49	17:54	17:59	18:04	18:09	18:14	18:19	18:24	18:29	18:34	18:39	18:44	18:49	18:54	18:59	19:04	19:09	19:14	19:19	19:24	19:29	19:34	19:39	19:44	19:49	19:54	19:59	20:04	20:09	20:14	20:19	20:24	20:29	20:34	20:39	20:44	20:49	20:54	20:59	21:04	21:09	21:14	21:19	21:24	21:29	21:34	21:39	21:44	21:49	21:54	21:59	22:04	22:09	22:14	22:19	22:24	22:29	22:34	22:39	22:44	22:49	22:54	22:59	23:04	23:09	23:14	23:19	23:24	23:29	23:34	23:39	23:44	23:49	23:54	23:59	24:04	24:09	24:14	24:19	24:24	24:29	24:34	24:39	24:44	24:49	24:54	24:59	25:04	25:09	25:14	25:19	25:24	25:29	25:34	25:39	25:44	25:49	25:54	25:59	26:04	26:09	26:14	26:19	26:24	26:29	26:34	26:39	26:44	26:49	26:54	26:59	27:04	27:09	27:14	27:19	27:24	27:29	27:34	27:39	27:44	27:49	27:54	27:59	28:04	28:09	28:14	28:19	28:24	28:29	28:34	28:39	28:44	28:49	28:54	28:59	29:04	29:09	29:14	29:19	29:24	29:29	29:34	29:39	29:44	29:49	29:54	29:59	30:04	30:09	30:14	30:19	30:24	30:29	30:34	30:39	30:44	30:49	30:54	30:59	31:04	31:09	31:14	31:19	31:24	31:29	31:34	31:39	31:44	31:49	31:54	31:59	32:04	32:09	32:14	32:19	32:24	32:29	32:34	32:39	32:44	32:49	32:54	32:59	33:04	33:09	33:14	33:19	33:24	33:29	33:34	33:39	33:44	33:49	33:54	33:59	34:04	34:09	34:14	34:19	34:24	34:29	34:34	34:39	34:44	34:49	34:54	34:59	35:04	35:09	35:14	35:19	35:24	35:29	35:34	35:39	35
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...and Choices
...Best for you?
...Ride



Unlimited Rides:
All transfers included
No refills. Get a new card every time you need more rides
Can only be used by one person at a time
Cannot be used again at the same bus route or same station for 18 minutes

Pay-Per-Ride:
Get a 15% discount with the purchase or addition of \$8.00 or more
Free bus-to-bus, bus-to-subway, or subway-to-bus transfer within 2 hours of paying fare (some exceptions apply)
Refill as often as you like until card expires (cards usually expire in one year)
Can be used to pay for up to 4 people at a time

See-line online at (914) 813-7777 or go to www.westchester.gov.com.

Cash and MetroCard Fares on this route
Effective December 30, 2010

Fare Type	One Person	Two People	Three People	Four People
Unlimited Ride MetroCard Fares (Good on Bee-Line Buses, NYC Buses, and Subways)	\$14.50	\$29.00	\$43.50	\$58.00
Pay-Per-Ride MetroCard Fares	\$1.10	\$2.20	\$3.30	\$4.40
Senior/Disabled Reduced Fare One Ride with Transfer	\$1.10	\$2.20	\$3.30	\$4.40
Senior/Disabled Reduced Fare	\$1.10	\$2.20	\$3.30	\$4.40
7-Day Senior/Disabled Reduced Fare	\$14.50	\$29.00	\$43.50	\$58.00

Transfers:

(1) Paper transfers will be accepted on all local routes except the same route initially boarded. Paper transfers must be obtained at time of boarding.
(2) Pay-Per-Ride MetroCards will be accepted on all Bee-Line routes except the same route initially boarded, NYC local buses and subways with no additional fare charged to the card within two hours of the initial boarding.
Pay-Per-Ride MetroCards require a minimum \$ 4.50 (round trip) purchase and may be obtained at numerous local merchants, New York City Subway Stations and Metro-North Railroad Stations. Purchases of \$ 10 or more earn a 7% bonus.
Senior/Disabled reduced fares are available to riders at least 65 years of age, certified disabled persons and valid Medicare card holders with proper identification. MetroCard Reduced Fares are only available to holders of personalized Reduced Fare MetroCards. For more information, call (718) 330-1234 or log on to the MTA website at www.mta.info/metrocard.

Fares, schedule and equipment are subject to change
24 Hour Automated Schedule Information
(914) 813-7777

For more information, call (914) 813-7777
Customer service representatives are available
8 a.m. to 4 p.m. weekdays

EXPRESS

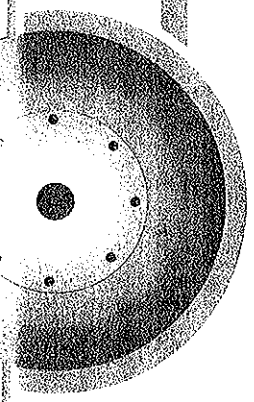
Carmel
Yorktown
White Plains

the Bee-Line system

ALSO SERVING

- Boldwin Place
- Shrub Oak
- FDR Park

Westchester
[gov.com](http://www.westchester.gov.com)



(914) 813-7777

Westchester County Department of Transportation
100 E. 14 Street, Mt. Vernon, NY 10550
Robert P. Ashburn, Westchester County Executive



LIGHT TYPE AND SHADE - AM TIMES
DARK TYPE AND SHADE - PM TIMES

HOLIDAY SCHEDULE

Use The Weekday Schedule For:
Lincoln's Birthday
Columbus Day
Election Day
Veteran's Day

No Service On:
New Year's Day
St. L. King Jr Day
President's Day
Memorial Day
Independence Day
Labor Day
Thanksgiving
Christmas

NOTES:

Northbound buses will pick up at all stops in Downtown White Plains only. Thereafter, drop-offs are made only upon request.

Northbound		Southbound	
5:46	6:01	6:09	6:20
6:30	6:45	6:53	7:04
6:55	7:10	7:18	7:29
7:20	7:35	7:43	7:54
		8:35	8:40

Northbound		Southbound	
4:20	4:25	5:09	5:24
4:50	4:55	5:39	5:54
5:20	5:25	6:09	6:24
6:15	6:20	7:04	7:19
		7:42	7:57



Please be courteous to your fellow passengers and refrain from using cell phones on the bus. Thank you.

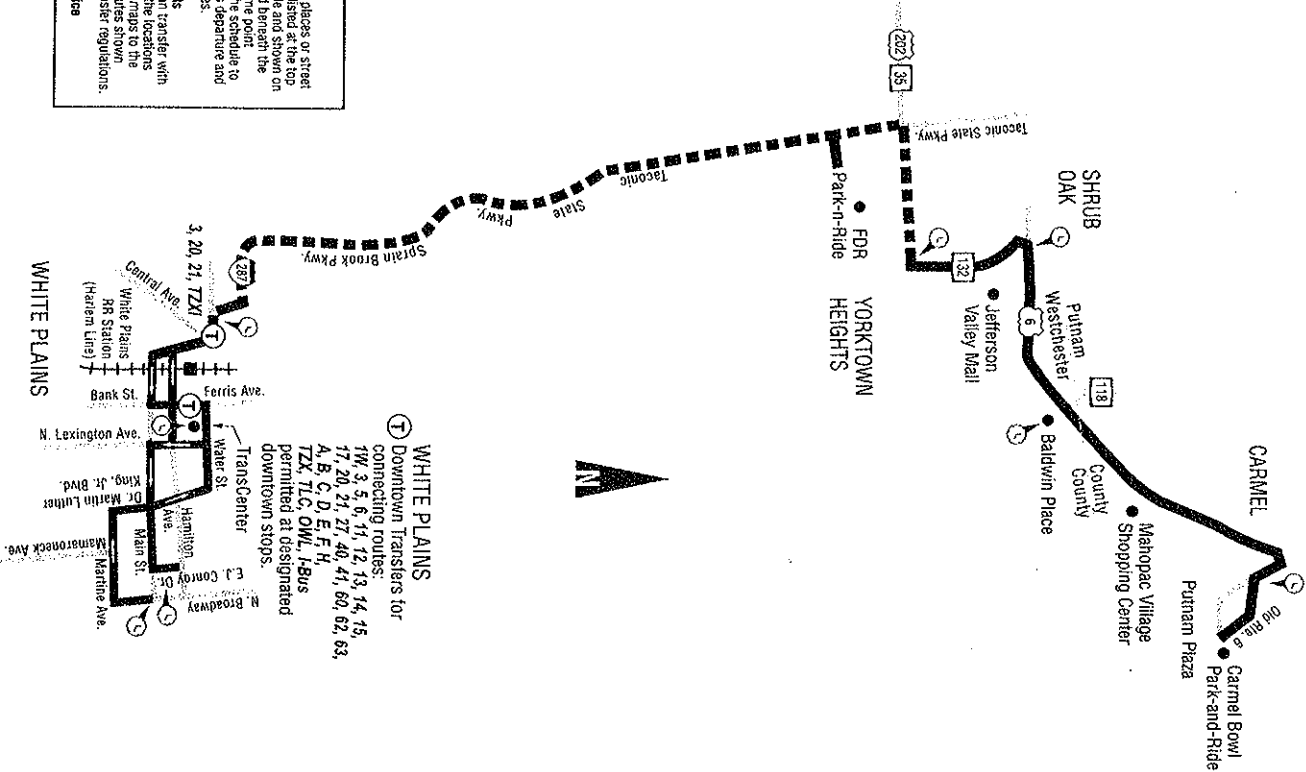
FORGET SOMETHING?

Please remember to take all your personal items with you. The Bee-Line is not responsible for your personal items or packages. **UNATTENDED ITEMS ARE SUBJECT TO IMMEDIATE DISPOSAL!** To inquire about lost items, call (914) 376-6361.

Time Points
These are the stops or street intersections listed at the top of the schedule and shown on the map. Read beneath the appropriate time point headings on the schedule to determine bus departure and trip travel times.

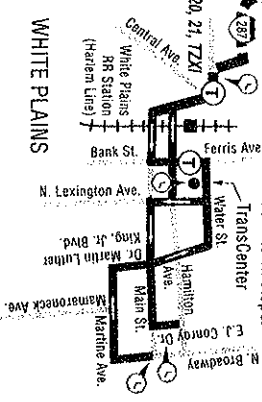
Transfer Points
Passengers can transfer with MetroCard at the locations shown on the maps to the connecting routes shown subject to transfer regulations.

Metropolitan Service



WHITE PLAINS

Downtown Transfers for connecting routes:
TW 3, 5, 6, 11, 12, 13, 14, 15, 17, 20, 21, 27, 40, 41, 60, 62, 63, A, B, C, D, E, F, H, TZ, TL, OWL, I-Bus permitted at designated downtown stops.



Appendix G

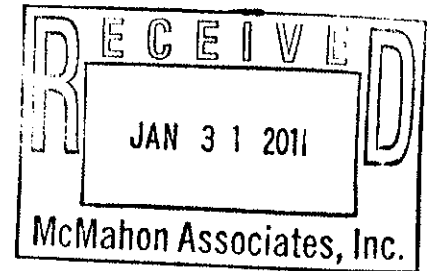
Other Supporting Documents

**PENN DOT LETTER
COSTCO TRIP GENERATION RATES**



pennsylvania
DEPARTMENT OF TRANSPORTATION
www.dot.state.pa.us

January 21, 2011



Mr. John Yurick, P.E., PTOE
McMahon Associates, Inc.
840 Springdale Drive
Exton, PA 19341

Re: Trip generation and pass-by rates for Discount Club with Gasoline Sales

Dear Mr. Yurick:

This is in response to your Trip Generation Study submission for the "Discount Club with Gasoline Sales" land use. It is McMahon's contention that the rates in the latest version of *ITE Trip Generation Manual* do not accurately portray the actual conditions.

A thorough review of the study and *ITE Trip Generation Manual* has been completed. Based on the information available in the ITE Manual for the Discount Club with Gasoline Sales land use and the data provided in your study, the Department will allow the following rates to be used:

WEIGHTED AVERAGE RATES			
Weekday Afternoon Peak Hour		Saturday Midday Peak Hour	
Trips per 1,000 SF	Pass-By Rate	Trips per 1,000 SF	Pass-by Rate
4.21	37%	5.56	30%

These rates have been conditionally approved statewide for all Discount Clubs with Gasoline Sales. This letter must be submitted with all transportation impact studies electing to use this conditional approval. The rates will only be valid until the next edition of *ITE Trip Generation* is published (9th edition).






If you have any question regarding this matter, please contact Mike Dzurko, Manager, Central Permits Office, Bureau of Highway Safety and Traffic Engineering at (717) 783-6080.

Sincerely,

Glenn C. Rowe, P.E., Chief
Traffic Operations Division
Bureau of Highway Safety and Traffic Engineering

MARKET STUDY

GEOGRAPHIC LEGEND

-  Railroad
-  US Highway
-  State Highway
-  Interstate
-  Major Highway

SAM'S CLUB

Fishkill
Open Date: 1987
Sales FY09B: \$62M

COSTCO WHOLESALE CLUB
Newburgh
Open Date: 1991
Sales FY09B: \$65M

BJ'S WHOLESALE CLUB
Monroe
Open Date: 2002
Sales FY09B: \$38M

BJ'S WHOLESALE CLUB
Yorktown Height
Open Date: 1991
Sales FY09B: \$65M

COSTCO WHOLESALE CLUB
Nanuet
Open Date: 6/30/1992
Sales FY09B: \$4,451M

