

Appendix G: Mitigation

Traffic

Traffic Tables

Table MA-T1

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Proposed Project

Weekday AM Peak Hour

Intersection	Weekday AM Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Twelfth Avenue and West 30th Street													
Eastbound	LTR	0.04	62.3	E	LTR	0.04	62.3	E		LTR	0.04	62.3	E
Northbound	TR	0.86	22.4	C	TR	0.93	28.1	C		TR	0.97	36.0	D
Southbound	L	1.37	260.5	F	L	1.62	367.1	F	+	L	1.33	239.9	F
	TR	0.82	21.2	C	TR	0.82	21.2	C		TR	0.86	25.1	C
	Intersection		32.7	C	Intersection		42.8	D		Intersection		42.0	D
Twelfth Avenue and West 29th Street													
Eastbound	LR	0.00	50.4	D	LR	0.00	50.4	D		Unmitigated			
Westbound	L	0.20	54.0	D	L	0.20	54.0	D					
	R	2.7	840.3	F	R	3.39	1148.0	F	+				
Northbound	T	0.65	13.8	B	T	0.66	14.0	B					
Southbound	TR	0.80	18.4	B	TR	0.80	18.4	B					
	Intersection		111.5	F	Intersection		174.6	F					
Eleventh Avenue and West 42nd Street													
Eastbound	T	0.31	20.4	C	T	0.29	20.2	C		T	0.29	20.2	C
	R	2.98	930.9	F	R	2.98	930.9	F		R	2.98	930.9	F
Westbound	L	0.94	113.6	F	L	1.09	153.3	F	+	L	0.89	93.3	F
	LT	0.36	13.0	B	LT	0.36	13.0	B		LT	0.34	11.8	B
Southbound	L	0.34	24.8	C	L	0.34	24.8	C		L	0.38	27.2	C
	T	0.78	30.2	C	T	0.79	30.3	C		T	0.84	33.9	C
	R	0.41	28.5	C	R	0.41	28.5	C		R	0.45	31.5	C
	Intersection		278.8	F	Intersection		280.1	F		Intersection		279.5	F
Eleventh Avenue and West 34th Street													
Eastbound	L	0.56	27.3	C	L	0.46	24.4	C		Unmitigated			
	T	0.59	32.9	C	T	0.55	31.7	C					
	R	1.26	177.9	F	R	0.97	83.9	F					
Westbound	L	1.14	127.3	F	L	1.14	127.2	F					
	TR	0.73	39.4	D	TR	0.82	45.8	D					
Southbound	LTR	1.13	92.2	F	LTR	1.15	98.1	F	+				
	Intersection		91.0	F	Intersection		86.9	F					
Eleventh Avenue and West 33rd Street													
Eastbound	-	-	-	-	R	0.85	56.6	E	+	Unmitigated			
Westbound	L	1.23	163.0	F	L	1.04	96.0	F					
	LT	0.80	44.3	D	LT	0.95	62.3	E	+				
Southbound	TR	0.98	43.4	D	TR	1.02	54.9	D					
	Intersection		60.1	E	Intersection		60.6	E					
Eleventh Avenue and West 32nd Street Extension													
Eastbound	TR	0.00	28.0	C	TR	0.03	28.4	C		TR	0.03	29.2	C
Southbound	LTR	1.25	144.6	F	LTR	1.29	163.8	F	+	LTR	1.26	147.1	F
	Intersection		144.6	F	Intersection		163.4	F		Intersection		146.7	F
Eleventh Avenue and West 30th Street													
Eastbound	T	0.83	40.0	D	T	1.00	68.9	E	+	Unmitigated			
	R	0.43	23.8	C	R	0.61	29.1	C					
Southbound	LT	1.07	68.2	E	LT	1.17	107.2	F	+				
	Intersection		62.4	E	Intersection		96.6	F					
Eleventh Avenue and West 29th Street													
Westbound	L	0.68	45.0	D	L	0.68	45.0	D		L	0.68	45.0	D
	T	0.62	19.4	B	T	0.75	24.3	C		T	0.81	29.6	C
Southbound	TR	1.15	102.9	F	TR	1.24	140.8	F	+	TR	1.13	93.6	F
	Intersection		85.2	F	Intersection		113.1	F		Intersection		78.6	E
Eleventh Avenue and West 24th Street													
Eastbound	R	0.28	27.4	C	R	0.28	27.4	C		R	0.29	28.3	C
Northbound	L	0.34	27.8	C	L	0.34	27.8	C		L	0.35	28.8	C
Southbound	L	0.44	10.3	B	L	0.44	10.3	B		L	0.44	10.3	B
	TR	1.48	255.7	F	TR	1.51	265.5	F	+	TR	1.45	240.8	F
	R	0.32	27.8	C	R	0.32	28.0	C		R	0.31	26.7	C
	Intersection		157.6	F	Intersection		164.2	F		Intersection		149.8	F
Twelfth Avenue and Eleventh Avenue													
Westbound	TR	1.53	300.4	F	TR	1.55	308.9	F	+	TR	1.51	289.9	F
Northbound	T	0.89	29.4	C	T	0.90	30.5	C		T	0.91	32.1	C
Southbound	T	0.75	18.0	B	T	0.75	18.0	B		T	0.76	18.8	B
	Intersection		85.9	F	Intersection		88.6	F		Intersection		85.2	F
Eleventh Avenue and West 22nd Street ¹													
Westbound	R	0.04	11.2	B	R	0.04	11.2	B		R	0.04	11.6	B
Northbound	T	0.20	41.4	D	T	0.20	41.4	D		T	0.20	40.6	D
	Intersection		33.7	C	Intersection		33.7	C		Intersection		33.3	C
Tenth Avenue and West 35th Street													
Westbound	TR	1.29	178.5	F	TR	1.31	187.5	F	+	TR	1.27	168.6	F
Northbound	LT	0.60	20.9	C	LT	0.66	21.9	C		LT	0.68	22.9	C
	Intersection		62.5	E	Intersection		63.6	E		Intersection		59.6	E
Tenth Avenue and West 34th Street													
Eastbound	LT	1.37	216.7	F	LT	1.35	207.6	F		LT	1.24	160.1	F
Westbound	T	1.04	81.4	F	T	1.07	89.0	F	+	T	1.03	77.6	E
	R	0.49	29.7	C	R	0.49	29.7	C		R	0.47	28.2	C
Northbound	LTR	0.67	20.4	C	LTR	0.78	23.2	C		LTR	0.80	24.5	C
	Intersection		66.9	E	Intersection		64.4	E		Intersection		55.7	E

Table MA-T1

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Proposed Project

Weekday AM Peak Hour

Intersection	Weekday AM Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Tenth Avenue and West 33rd Street													
Westbound	TR	1.23	148.7	F	TR	1.27	166.6	F	+	TR	1.23	148.7	F
Northbound	LT	0.84	25.9	C	LT	0.88	28.1	C		LT	0.90	30.6	C
	Intersection		62.1	E	Intersection		67.5	E		Intersection		64.2	E
Tenth Avenue and West 30th Street													
Eastbound	L	0.62	34.8	C	L	1.28	181.0	F	+	Unmitigated			
	T	2.00	490.8	F	T	2.11	540.5	F	+				
Northbound	T	0.76	26.4	C	T	0.77	26.5	C					
	R	2.17	564.7	F	R	2.14	552.7	F					
	Intersection		268.1	F	Intersection		287.9	F					
Tenth Avenue and West 29th Street													
Westbound	T	0.98	65.8	E	T	1.11	105.4	F	+	T	0.99	62.8	E
	R	1.24	156.8	F	R	1.29	179.7	F	+	R	1.13	111.2	F
Northbound	LT	0.61	19.1	B	LT	0.62	19.3	B		LT	0.69	23.1	C
	Intersection		56.3	E	Intersection		71.4	E		Intersection		50.0	D
Tenth Avenue and West 23rd Street													
Eastbound	LT	0.43	21.2	C	LT	0.44	21.4	C		LT	0.41	19.5	B
Westbound	TR	1.08	100.7	F	TR	1.15	124.6	F	+	TR	1.06	91.8	F
Northbound	LTR	0.78	27.1	C	LTR	0.77	26.7	C		LTR	0.82	29.9	C
	Intersection		41.6	D	Intersection		47.6	D		Intersection		41.8	D
Ninth Avenue and West 42nd Street													
Eastbound	T	1.13	116.2	F	T	1.16	127.6	F	+	T	1.11	109.8	F
	R	0.26	28.5	C	R	0.26	28.5	C		R	0.25	27.4	C
Westbound	L	1.13	149.5	F	L	1.13	149.5	F		L	1.13	149.5	F
	T	0.19	14.7	B	T	0.21	14.9	B		T	0.21	14.3	B
Southbound	L	0.68	57.6	E	L	0.68	57.6	E		L	0.68	57.6	E
	TR	0.79	26.6	C	TR	0.80	27.1	C		TR	0.82	28.7	C
	Intersection		56.9	E	Intersection		59.5	E		Intersection		56.4	E
Ninth Avenue and West 34th Street													
Eastbound	T	1.21	143.8	F	T	1.23	148.9	F	+	T	1.19	131.8	F
	R	0.99	84.9	F	R	0.99	83.8	F		R	0.95	71.9	E
Westbound	T	0.78	32.1	C	T	0.80	33.6	C		T	0.78	31.4	C
Southbound	L	0.55	46.2	D	L	0.55	46.2	D		L	0.55	46.2	D
	TR	0.60	19.4	B	TR	0.62	19.7	B		TR	0.63	20.6	C
	Intersection		59.3	E	Intersection		60.4	E		Intersection		55.2	E
Ninth Avenue and West 29th Street													
Westbound	L	0.25	21.4	C	L	0.25	21.4	C		Umitigated			
	T	1.34	195.6	F	T	1.47	248.7	F	+				
Southbound	TR	1.11	83.0	F	TR	1.13	91.2	F	+				
	ntersection		111.1	F	ntersection		133.6	F					
Ninth Avenue and West 23rd Street													
Eastbound	T	0.48	31.0	C	T	0.49	31.3	C		T	0.48	30.0	C
	R	0.71	46.4	D	R	0.71	46.4	D		R	0.67	42.2	D
Westbound	T	0.88	53.5	D	T	0.94	63.8	E	+	T	0.90	55.9	E
Southbound	L	0.90	76.2	E	L	0.90	76.2	E		L	0.90	76.2	E
	TR	0.65	17.2	B	TR	0.65	17.2	B		TR	0.66	18.1	B
	Intersection		31.7	C	Intersection		33.8	C		Intersection		32.5	C
Eighth Avenue and West 36th Street													
Eastbound	L	0.64	40.3	D	L	0.64	40.3	D		Unmitigated			
	T	1.23	150.7	F	T	1.27	163.9	F	+				
Northbound	T	0.35	13.2	B	T	0.37	13.4	B					
	R	1.10	127.6	F	R	1.08	121.5	F					
	Intersection		87.8	F	Intersection		92.2	F					
Eighth Avenue and West 34th Street													
Eastbound	T	1.19	132.9	F	T	1.20	137.6	F	+	T	1.16	121.4	F
Westbound	T	0.63	30.3	C	T	0.66	31.1	C		T	0.64	29.6	C
	-	-	-	-	-	-	-	-		-	-	-	-
	R	0.46	28.7	C	R	0.46	28.7	C		R	0.44	27.3	C
Northbound	L	0.49	46.4	D	L	0.49	46.4	D		L	0.49	46.4	D
	TR	0.62	22.5	C	TR	0.64	23.0	C		TR	0.66	24.1	C
	Intersection		62.6	E	Intersection		63.9	E		Intersection		58.6	E
Eighth Avenue and West 33rd Street													
Westbound	TR	0.06	17.5	B	TR	0.06	17.5	B		TR	0.06	20.2	C
Northbound	L	0.90	73.8	E	L	1.17	147.7	F	+	L	0.92	69.6	E
	TR	0.44	19.3	B	TR	0.46	19.5	B		TR	0.41	16.5	B
	Intersection		31.3	C	Intersection		53.2	D		Intersection		30.6	C
Eighth Avenue and West 30th Street													
Eastbound	L	0.72	39.0	D	L	0.79	44.5	D		L	0.73	37.8	D
	T	1.10	93.5	F	T	1.16	116.5	F	+	T	1.11	94.1	F
Northbound	TR	0.44	17.9	B	TR	0.45	18.0	B		TR	0.47	19.5	B
	Intersection		47.1	D	Intersection		56.7	E		Intersection		48.6	D
Eighth Avenue and West 29th Street													
Westbound	TR	1.07	88.0	F	TR	1.16	118.7	F	+	Unmitigated			
Northbound	L	1.07	102.4	F	L	1.12	117.5	F	+				
	T	0.28	13.9	B	T	0.29	14.0	B					
	Intersection		56.8	E	Intersection		71.7	E					

Table MA-T1

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Proposed Project
Weekday AM Peak Hour

Intersection	Weekday AM Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Seventh Avenue and West 29th Street													
Westbound	L	0.42	25.5	C	L	0.42	25.5	C		L	0.38	22.3	C
	T	0.98	65.7	E	T	1.09	96.7	F	+	T	1.00	65.6	E
Southbound	-	-	-	-	-	-	-	-		-	-	-	-
	TR	0.71	22.6	C	TR	0.73	22.9	C		TR	0.79	26.8	C
	-	-	-	-	-	-	-	-		-	-	-	-
	Intersection		34.5	C	Intersection		44.4	D		Intersection		37.6	D
Seventh Avenue and West 28th Street													
Eastbound	TR	1.11	111.6	F	TR	1.17	133.9	F	+	TR	1.09	101.8	F
Southbound	L	0.55	22.7	C	L	0.55	22.7	C		L	0.59	26.3	C
	T	0.56	16.3	B	T	0.57	16.5	B		T	0.60	18.1	B
	Intersection		41.1	D	Intersection		47.9	D		Intersection		40.8	D
Sixth Avenue and West 29th Street													
Westbound	T	0.90	55.9	E	T	0.97	68.4	E	+	Unmitigated			
	R	0.36	27.6	C	R	0.36	27.6	C					
Northbound	L	0.88	51.4	D	L	0.95	65.5	E	+				
	T	0.52	16.0	B	T	0.52	16.0	B					
	Intersection		27.6	C	Intersection		32.2	C					
Sixth Avenue and West 28th Street													
Eastbound	LT	1.04	86.9	F	LT	1.09	104.2	F	+	LT	1.05	90.0	F
Northbound	TR	0.61	17.3	B	TR	0.62	17.4	B		TR	0.63	18.3	B
	Intersection		32.3	C	Intersection		36.8	D		Intersection		34.3	C
Unsignalized Intersections													
Lincoln Tunnel and West 33rd Street													
Southbound	R	1.57	325.5	F	R	1.67	370.0	F	+	Unmitigated			
Notes: L = Left Turn; T = Through; R = Right Turn; LOS = Level of Service, + Denotes significant adverse traffic impact. ¹ The Eleventh Avenue and West 22nd Street intersection is controlled by the same traffic signal as the Twelfth Avenue and Eleventh Avenue intersection and was therefore also included for detailed analysis.													

Table MA-T2

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Proposed Project

Weekday Midday Peak Hour

Intersection	Weekday Midday Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Twelfth Avenue and West 42nd Street													
Eastbound	LTR	0.04	32.1	C	LTR	0.04	32.1	C		LTR	0.04	32.9	C
Westbound	L	0.13	33.2	C	L	0.13	33.2	C		L	0.13	34.0	C
	R	0.70	27.0	C	R	0.70	27.0	C		R	0.71	28.3	C
Northbound	TR	1.39	214.5	F	TR	1.41	224.8	F	+	TR	1.38	210.3	F
Southbound	L	0.75	51.6	D	L	0.75	51.6	D		L	0.75	51.6	D
	T	0.89	34.9	C	T	0.92	37.4	D		T	0.90	35.3	D
	Intersection		125.3	F	Intersection		131.2	F		Intersection		123.3	F
Twelfth Avenue and West 30th Street													
Eastbound	LTR	0.00	46.8	D	LTR	0.00	46.8	D		LTR	0.00	46.8	D
Northbound	TR	0.80	20.8	C	TR	0.88	24.0	C		TR	0.91	28.4	C
Southbound	L	0.96	104.2	F	L	1.12	151.2	F	+	L	0.96	97.5	F
	TR	0.63	16.7	B	TR	0.63	16.7	B		TR	0.66	18.9	B
	Intersection		23.1	C	Intersection		27.8	C		Intersection		28.5	C
Twelfth Avenue and West 29th Street													
Eastbound	LR	0.00	39.2	D	LR	0.00	39.2	D		Unmitigated			
Westbound	L	0.18	42.0	D	L	0.18	42.0	D					
	R	1.68	370.4	F	R	2.25	624.0	F	+				
Northbound	T	0.63	14.9	B	T	0.65	15.2	B					
Southbound	TR	0.61	14.7	B	TR	0.61	14.7	B					
	Intersection		53.0	D	Intersection		98.3	F					
Eleventh Avenue and West 42nd Street													
Eastbound	T	0.26	19.7	B	T	0.23	19.4	B		T	0.23	19.4	B
	R	2.66	789.9	F	R	2.66	789.9	F		R	2.66	789.9	F
Westbound	L	1.12	156.2	F	L	1.33	231.5	F	+	L	1.08	136.4	F
	LT	0.56	16.6	B	LT	0.56	16.6	B		LT	0.54	15.0	B
Southbound	L	0.2	22.0	C	L	0.2	22.0	C		L	0.22	23.8	C
	T	0.77	29.6	C	T	0.79	30.2	C		T	0.85	33.8	C
	R	0.30	25.0	C	R	0.30	25.0	C		R	0.34	27.9	C
	Intersection		211.6	F	Intersection		214.4	F		Intersection		210.8	F
Eleventh Avenue and West 38th Street													
Northbound	L	0.00	10.3	B	L	0.00	10.3	B		Unmitigated			
	TR	0.33	13.2	B	TR	0.33	13.2	B					
Southbound	L	0.58	21.0	C	L	0.58	21.0	C					
	TR	1.03	51.1	D	TR	1.06	62.6	E	+				
	Intersection		41.1	D	Intersection		49.6	D					
Eleventh Avenue and West 37th Street													
Eastbound	LR	0.00	23.5	C	LR	0.00	23.5	C		LR	0.00	26.5	C
Westbound	L	0.51	32.4	C	L	0.62	36.3	D		L	0.74	47.1	D
	R	0.50	33.5	C	R	0.50	33.5	C		R	0.59	41.5	D
Northbound	T	0.17	12.5	B	T	0.17	12.5	B		T	0.15	10.4	B
Southbound	T	1.09	73.9	E	T	1.18	111.7	F	+	T	1.09	70.0	E
	Intersection		60.7	E	Intersection		89.4	F		Intersection		59.7	E
Eleventh Avenue and West 36th Street													
Northbound	TR	0.28	13.1	B	TR	0.26	12.9	B		Unmitigated			
Southbound	LT	1.01	45.5	D	LT	1.05	56.9	E	+				
	Intersection		40.3	D	Intersection		50.6	D					
Eleventh Avenue and West 34th Street													
Eastbound	L	1.26	184.5	F	L	1.08	126.0	F		Unmitigated			
	T	0.36	27.5	C	T	0.33	27.0	C					
	R	0.86	63.9	E	R	1.03	99.8	F	+				
Westbound	L	0.69	33.4	C	L	0.75	37.8	D					
	TR	0.90	55.7	E	TR	1.01	80.1	F	+				
Southbound	LTR	1.00	47.9	D	LTR	1.07	67.6	E	+				
	Intersection		57.8	E	Intersection		70.9	E					
Eleventh Avenue and West 33rd Street													
Eastbound	-	-	-	-	R	1.74	380.6	F	+	Unmitigated			
Westbound	L	0.76	48.9	D	L	0.89	62.9	E	+				
	LT	0.54	34.9	C	LT	0.82	44.8	D					
Southbound	TR	0.77	27.3	C	TR	1.00	48.0	D					
	Intersection		30.8	C	Intersection		111.3	F					
Eleventh Avenue and West 32nd Street Extension													
Eastbound	TR	0.00	28.0	C	TR	0.07	28.9	C		Unmitigated			
Southbound	LTR	1.03	57.5	E	LTR	1.28	158.7	F	+				
	Intersection		57.5	E	Intersection		157.7	F					
Eleventh Avenue and West 31st Street Extension													
Eastbound	TR	0.26	21.0	C	-	-	-	-		Unmitigated			
Southbound	LTR	1.01	50.0	D	LT	1.18	112.2	F	+				
	Intersection		48.6	D	Intersection		112.2	F					
Eleventh Avenue and West 30th Street													
Eastbound	T	0.68	30.5	C	T	0.84	41.3	D		Unmitigated			
	R	0.46	26.3	C	R	0.70	36.9	D					
Southbound	LT	0.86	29.3	C	LT	1.19	118.8	F	+				
	Intersection		29.3	C	Intersection		102.5	F					

Table MA-T2

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Proposed Project

Weekday Midday Peak Hour

Intersection	Weekday Midday Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Eleventh Avenue and West 24th Street													
Eastbound	R	0.24	26.8	C	R	0.24	26.8	C		R	0.26	28.7	C
Northbound	L	0.25	26.8	C	L	0.25	26.8	C		L	0.28	28.6	C
Southbound	L	0.31	8.7	A	L	0.31	8.7	A		L	0.31	8.7	A
	TR	1.24	149.5	F	TR	1.32	181.7	F	+	TR	1.22	141.4	F
	R	0.25	26.5	C	R	0.33	29.5	C		R	0.29	26.8	C
	Intersection		99.6	F	Intersection		121.8	F		Intersection		96.5	F
Twelfth Avenue and Eleventh Avenue													
Westbound	TR	1.39	226.3	F	TR	1.46	256.2	F	+	TR	1.37	218.3	F
Northbound	T	0.83	26.6	C	T	0.85	27.8	C		T	0.88	30.7	C
Southbound	T	0.62	16.0	B	T	0.62	16.0	B		T	0.64	17.4	B
	Intersection		71.2	E	Intersection		80.4	F		Intersection		72.7	E
Eleventh Avenue and West 22nd Street ¹													
Westbound	R	0.05	13.1	B	R	0.05	13.1	B		R	0.06	14.1	B
Northbound	T	0.09	26.5	C	T	0.09	26.5	C		T	0.09	25.1	C
	Intersection		20.9	C	Intersection		20.9	C		Intersection		20.6	C
Tenth Avenue and West 35th Street													
Westbound	TR	0.85	52.1	D	TR	0.92	61.8	E	+	TR	0.89	54.7	D
Northbound	LT	0.66	20.6	C	LT	0.74	22.3	C		LT	0.76	23.4	C
	Intersection		25.6	C	Intersection		28.5	C		Intersection		28.3	C
Tenth Avenue and West 34th Street													
Eastbound	LT	1.37	220.5	F	LT	1.36	215.9	F		LT	1.25	166.8	F
Westbound	T	0.92	53.7	D	T	0.98	65.7	E	+	T	0.95	57.7	E
	R	0.54	30.6	C	R	0.54	30.6	C		R	0.52	28.9	C
Northbound	LTR	0.81	24.5	C	LTR	0.98	40.5	D		LTR	1.01	47.4	D
	Intersection		57.7	E	Intersection		65.2	E		Intersection		62.4	E
Tenth Avenue and West 33rd Street													
Westbound	TR	0.78	37.9	D	TR	0.95	58.0	E	+	TR	0.92	51.1	D
Northbound	LT	0.80	23.8	C	LT	0.98	38.8	D		LT	1.00	44.8	D
	Intersection		26.6	C	Intersection		42.7	D		Intersection		46.1	D
Tenth Avenue and West 30th Street													
Eastbound	L	0.67	38.1	D	L	1.50	273.8	F	+	Unmitigated			
	T	1.39	220.7	F	T	1.88	434.0	F	+				
Northbound	T	0.88	31.7	C	T	0.96	41.1	D					
	R	3.03	953.2	F	R	3.01	945.6	F					
	Intersection		257.1	F	Intersection		312.5	F					
Tenth Avenue and West 29th Street													
Westbound	T	0.73	34.8	C	T	0.83	41.7	D		T	0.73	31.7	C
	R	1.10	108.6	F	R	1.30	186.1	F	+	R	1.12	108.1	F
Northbound	LT	0.74	21.7	C	LT	0.78	22.6	C		LT	0.86	28.4	C
	Intersection		36.6	D	Intersection		52.5	D		Intersection		42.0	D
Tenth Avenue and West 23rd Street													
Eastbound	LT	0.30	19.3	B	LT	0.32	19.6	B		LT	0.30	18.0	B
Westbound	TR	1.09	108.0	F	TR	1.20	145.1	F	+	TR	1.10	106.6	F
Northbound	LTR	0.93	36.3	D	LTR	0.95	39.6	D		LTR	1.01	52.9	D
	Intersection		47.3	D	Intersection		57.1	E		Intersection		58.7	E
Ninth Avenue and West 42nd Street													
Eastbound	T	1.13	116.4	F	T	1.19	137.9	F	+	T	1.14	118.9	F
	R	0.45	33.4	C	R	0.45	33.4	C		R	0.43	31.8	C
Westbound	L	0.97	97.5	F	L	0.97	97.5	F		L	0.97	97.5	F
	T	0.32	16.3	B	T	0.36	16.8	B		T	0.35	16.1	B
Southbound	L	0.65	54.9	D	L	0.65	54.9	D		L	0.65	54.9	D
	TR	0.89	32.3	C	TR	0.92	34.9	C		TR	0.94	38.9	D
	Intersection		53.3	D	Intersection		59.0	E		Intersection		57.2	E
Ninth Avenue and West 35th Street													
Westbound	LT	1.02	84.0	F	LT	1.18	135.2	F	+	LT	1.14	118.7	F
Southbound	TR	0.56	14.0	B	TR	0.58	14.4	B		TR	0.59	15.1	B
	Intersection		31.3	C	Intersection		46.5	D		Intersection		42.7	D
Ninth Avenue and West 34th Street													
Eastbound	T	0.97	66.6	E	T	1.02	80.2	F	+	T	0.99	69.7	E
	R	0.74	46.4	D	R	0.75	47.4	D		R	0.72	43.0	D
Westbound	T	1.01	64.5	E	T	1.05	77.3	E	+	T	1.02	68.2	E
Southbound	L	0.78	61.6	E	L	0.78	61.6	E		L	0.78	61.6	E
	TR	0.65	20.5	C	TR	0.69	21.4	C		TR	0.71	22.5	C
	Intersection		44.4	D	Intersection		50.2	D		Intersection		46.3	D
Ninth Avenue and West 30th Street													
Eastbound	T	0.57	31.6	C	T	0.79	39.0	D		T	0.76	36.6	D
	R	0.85	46.8	D	R	0.94	59.3	E	+	R	0.90	51.1	D
Southbound	LTR	0.71	25.5	C	LTR	0.72	25.7	C		LTR	0.74	26.9	C
	Intersection		31.6	C	Intersection		36.7	D		Intersection		34.9	C
Ninth Avenue and West 29th Street													
Westbound	L	0.23	21.8	C	L	0.23	21.8	C		Unmitigated			
	T	0.95	58.0	E	T	1.16	120.1	F	+				
Southbound	TR	0.87	30.9	C	TR	0.91	33.9	C					
	Intersection		37.1	D	Intersection		57.1	E					

Table MA-T3

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Proposed Project

Weekday PM Peak Hour

Intersection	Weekday PM Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Twelfth Avenue and West 42nd Street													
Eastbound	LTR	0.08	47.2	D	LTR	0.08	47.2	D		LTR	0.08	48.0	D
Westbound	L	0.31	51.2	D	L	0.31	51.2	D		L	0.32	52.3	D
	R	0.52	40.6	D	R	0.52	40.6	D		R	0.53	41.6	D
Northbound	TR	1.20	127.4	F	TR	1.22	136.8	F	+	TR	1.21	129.7	F
Southbound	L	1.18	169.3	F	L	1.18	169.3	F		L	1.18	169.3	F
	T	1.06	65.2	E	T	1.08	73.6	E	+	T	1.07	68.6	E
	Intersection		101.8	F	Intersection		109.7	F		Intersection		104.3	F
Twelfth Avenue and West 30th Street													
Eastbound	LTR	0	61.7	E	LTR	0.00	61.7	E		LTR	0.00	62.6	E
Northbound	TR	1.00	39.7	D	TR	1.05	54.5	D		TR	1.05	54.5	D
Southbound	L	1.26	218.3	F	L	1.34	249.5	F	+	L	1.27	221.0	F
	TR	0.84	22.2	C	TR	0.84	22.2	C		TR	0.84	22.2	C
	Intersection		39.5	D	Intersection		49.7	D		Intersection		48.6	D
Twelfth Avenue and West 29th Street													
Eastbound	LR	0.00	50.4	D	LR	0.00	50.4	D		Unmitigated			
Westbound	L	0.14	52.9	D	L	0.14	52.9	D					
	R	2.38	693.2	F	R	2.8	881.2	F	+				
Northbound	T	0.80	17.7	B	T	0.81	18.2	B					
Southbound	TR	0.83	19.2	B	TR	0.83	19.2	B					
	Intersection		84.1	F	Intersection		114.9	F					
Eleventh Avenue and West 42nd Street													
Eastbound	T	0.25	20.9	C	T	0.24	20.8	C		T	0.24	20.8	C
	R	2.31	631.9	F	R	2.31	631.9	F		R	2.31	631.9	F
Westbound	L	1.46	272.5	F	L	1.63	345.5	F	+	L	1.41	248.1	F
	LT	0.33	11.6	B	LT	0.33	11.6	B		LT	0.32	10.5	B
Southbound	L	0.03	21.1	C	L	0.03	21.1	C		L	0.04	22.5	C
	T	0.59	27.0	C	T	0.62	27.6	C		T	0.67	29.8	C
	R	0.29	26.9	C	R	0.29	26.9	C		R	0.32	29.5	C
	Intersection		223.0	F	Intersection		228.6	F		Intersection		217.8	F
Eleventh Avenue and West 39th Street													
Westbound	LTR	0.35	25.3	C	LTR	0.35	25.3	C		LTR	0.38	27.2	C
Northbound	LT	0.18	12.6	B	LT	0.18	12.6	B		LT	0.17	11.5	B
Southbound	TR	1.39	201.9	F	TR	1.45	228.1	F	+	TR	1.39	199.7	F
	Intersection		166.6	F	Intersection		189.1	F		Intersection		166.1	F
Eleventh Avenue and West 38th Street													
Northbound	L	0.00	10.3	B	L	0.00	10.3	B		Unmitigated			
	TR	0.21	11.9	B	TR	0.21	11.9	B					
Southbound	L	0.50	17.7	B	L	0.50	17.7	B					
	TR	1.21	123.2	F	TR	1.27	147.4	F	+				
	Intersection		100.9	F	Intersection		121.1	F					
Eleventh Avenue and West 37th Street													
Eastbound	LR	0.00	22.8	C	LR	0.00	22.8	C		LR	0.00	24.2	C
Westbound	L	0.33	27.4	C	L	0.46	30.1	C		L	0.50	32.8	C
	R	0.21	25.9	C	R	0.21	25.9	C		R	0.23	27.8	C
Northbound	T	0.10	10.9	B	T	0.10	10.9	B		T	0.09	9.9	A
Southbound	T	1.40	204.5	F	T	1.45	229.0	F	+	T	1.39	201.6	F
	Intersection		175.7	F	Intersection		194.5	F		Intersection		171.8	F
Eleventh Avenue and West 36th Street													
Northbound	TR	0.24	12.7	B	TR	0.22	12.5	B		Unmitigated			
Southbound	LT	1.32	171.6	F	LT	1.38	198.2	F	+				
	Intersection		150.1	F	Intersection		176.2	F					
Eleventh Avenue and West 34th Street													
Eastbound	L	0.93	67.4	E	L	0.92	70.5	E		Unmitigated			
	T	0.56	31.8	C	T	0.50	30.3	C					
	R	1.01	96.4	F	R	1.47	267.9	F	+				
Westbound	L	0.87	56.2	E	L	0.97	76.5	E	+				
	TR	0.82	47.0	D	TR	0.94	63.5	E	+				
Southbound	LTR	1.12	86.4	F	LTR	1.22	127.9	F	+				
	Intersection		75.1	E	Intersection		120.1	F					
Eleventh Avenue and West 33rd Street													
Eastbound	-	-	-	-	R	2.23	597.2	F	+	Unmitigated			
Westbound	L	0.85	57.0	E	L	1.00	84.6	F	+				
	LT	0.59	35.9	D	LT	1.00	71.7	E	+				
Southbound	TR	0.92	34.6	C	TR	1.29	163.4	F	+				
	Intersection		37.2	D	Intersection		225.4	F					
Eleventh Avenue and West 32nd Street Extension													
Eastbound	TR	0.00	28.0	C	TR	0.01	28.1	C		Unmitigated			
Southbound	LTR	1.05	63.6	E	LTR	1.32	176.5	F	+				
	Intersection		63.5	E	Intersection		176.3	F					
Eleventh Avenue and West 31st Street Extension													
Eastbound	TR	0.61	29.4	C	-	-	-	-		Unmitigated			
Southbound	LTR	1.07	67.7	E	LT	1.25	140.9	F	+				
	Intersection		64.1	E	Intersection		140.9	F					

Table MA-T3

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Proposed Project

Weekday PM Peak Hour

Intersection	Weekday PM Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Eleventh Avenue and West 30th Street													
Eastbound	T	0.68	29.7	C	T	1.02	70.6	E	+	Unmitigated			
	R	0.48	25.5	C	R	0.70	34.3	C					
Southbound	LT	1.09	74.4	E	LT	1.52	263.4	F	+				
	Intersection		65.7	E	Intersection		219.6	F					
Eleventh Avenue and West 29th Street													
Westbound	L	0.79	53.0	D	L	0.79	53.0	D		L	0.79	53.0	D
	T	0.63	19.7	B	T	0.73	23.3	C		T	0.76	26.3	C
Southbound	TR	0.94	38.6	D	TR	1.07	70.0	E	+	TR	1.00	48.7	D
	Intersection		36.4	D	Intersection		59.2	E		Intersection		44.6	D
Eleventh Avenue and West 24th Street													
Eastbound	R	0.22	26.6	C	R	0.22	26.6	C		R	0.24	28.4	C
Northbound	L	0.42	28.9	C	L	0.42	28.9	C		L	0.46	31.0	C
Southbound	L	0.38	9.5	A	L	0.38	9.5	A		L	0.38	9.5	A
	TR	1.12	101.0	F	TR	1.21	138.1	F	+	TR	1.13	102.2	F
	R	0.41	30.9	C	R	0.41	31.1	C		R	0.38	28.3	C
	Intersection		63.2	E	Intersection		85.1	F		Intersection		65.7	E
Twelfth Avenue and Eleventh Avenue													
Westbound	TR	1.70	382.1	F	TR	1.81	429.1	F	+	TR	1.71	381.9	F
Northbound	T	0.94	33.5	C	T	0.96	36.8	D		T	0.98	42.2	D
Southbound	T	0.66	15.0	B	T	0.66	15.0	B		T	0.67	16.3	B
	Intersection		96.9	F	Intersection		111.0	F		Intersection		104.0	F
Eleventh Avenue and West 22nd Street ¹													
Westbound	R	0.09	11.3	B	R	0.09	11.3	B		R	0.09	12.1	B
Northbound	T	0.21	42.3	D	T	0.21	42.3	D		T	0.20	40.7	D
	Intersection		30.3	C	Intersection		30.3	C		Intersection		29.6	C
Tenth Avenue and West 36th Street													
Eastbound	LT	0.74	31.4	C	LT	0.71	30.3	C		LT	0.82	38.7	D
Northbound	TR	1.02	48.7	D	TR	1.14	95.5	F	+	TR	1.03	51.1	D
	Intersection		44.8	D	Intersection		82.4	F		Intersection		48.6	D
Tenth Avenue and West 34th Street													
Eastbound	LT	1.61	320.7	F	LT	1.52	285.5	F		Unmitigated			
Westbound	T	0.83	42.3	D	T	0.90	49.9	D					
	R	1.11	109.5	F	R	1.11	109.5	F					
Northbound	LTR	0.88	26.9	C	LTR	1.06	60.4	E	+				
	Intersection		75.5	E	Intersection		87.6	F					
Tenth Avenue and West 33rd Street													
Westbound	TR	0.95	58.2	E	TR	1.20	136.5	F	+	Unmitigated			
Northbound	LT	0.97	37.8	D	LT	1.25	139.1	F	+				
	Intersection		41.6	D	Intersection		138.5	F					
Tenth Avenue and West 30th Street													
Eastbound	L	0.53	31.0	C	L	1.58	306.1	F	+	Unmitigated			
	T	1.93	455.8	F	T	2.53	725.6	F	+				
Northbound	T	0.98	44.0	D	T	1.08	75.3	E	+				
	R	1.24	177.3	F	R	1.24	177.3	F					
	Intersection		172.4	F	Intersection		293.7	F					
Tenth Avenue and West 29th Street													
Westbound	T	0.99	67.9	E	T	1.12	105.4	F	+	Unmitigated			
	R	1.07	94.9	F	R	1.27	171.9	F	+				
Northbound	LT	0.83	24.3	C	LT	0.87	26.1	C					
	Intersection		41.5	D	Intersection		62.2	E					
Tenth Avenue and West 23rd Street													
Eastbound	LT	0.34	19.9	B	LT	0.37	20.3	C		Unmitigated			
Westbound	TR	1.10	108.2	F	TR	1.23	154.3	F	+				
Northbound	LTR	1.25	144.9	F	LTR	1.29	160.1	F	+				
	Intersection		125.8	F	Intersection		144.0	F					
Ninth Avenue and West 42nd Street													
Eastbound	T	0.98	69.5	E	T	1.04	87.0	F	+	Unmitigated			
	R	0.41	32.8	C	R	0.41	32.8	C					
Westbound	L	0.98	101.5	F	L	0.98	101.5	F					
	T	0.36	16.8	B	T	0.40	17.4	B					
Southbound	L	0.78	67.0	E	L	0.78	67.0	E					
	TR	1.00	49.0	D	TR	1.04	59.1	E	+				
	Intersection		53.1	D	Intersection		61.8	E					
Ninth Avenue and West 35th Street													
Westbound	LT	0.92	59.9	E	LT	1.11	111.1	F	+	Unmitigated			
Southbound	TR	0.52	13.4	B	TR	0.55	13.9	B					
	Intersection		23.9	C	Intersection		38.3	D					
Ninth Avenue and West 34th Street													
Eastbound	T	0.85	43.0	D	T	0.92	51.5	D		T	0.86	42.4	D
	R	0.96	74.5	E	R	0.98	79.4	E		R	0.89	58.9	E
Westbound	T	1.03	70.1	E	T	1.08	86.7	F	+	T	1.03	67.8	E
Southbound	L	0.68	52.7	D	L	0.68	52.7	D		L	0.68	52.7	D
	TR	0.59	19.2	B	TR	0.64	20.1	C		TR	0.68	22.1	C
	Intersection		43.9	D	Intersection		49.9	D		Intersection		42.3	D

Table MA-T3

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Proposed Project

Weekday PM Peak Hour

Intersection	Weekday PM Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Ninth Avenue and West 33rd Street													
Westbound	LT	0.94	64.7	E	LT	1.06	94.4	F	+	LT	0.96	63.8	E
Southbound	TR	0.74	21.0	C	TR	0.83	24.6	C		TR	0.89	31.1	C
	Intersection		31.2	C	Intersection		41.7	D		Intersection		39.1	D
Ninth Avenue and West 30th Street													
Eastbound	T	0.89	45.6	D	T	1.14	110.5	F	+	Unmitigated			
	R	0.99	70.4	E	R	1.12	108.4	F	+				
Southbound	LTR	0.72	23.2	C	LTR	0.73	23.4	C					
	Intersection		39.3	D	Intersection		70.2	E					
Ninth Avenue and West 29th Street													
Westbound	L	0.28	21.8	C	L	0.28	21.8	C		Unmitigated			
	T	1.27	165.1	F	T	1.52	273.9	F	+				
Southbound	TR	0.84	27.9	C	TR	0.89	30.6	C					
	Intersection		68.5	E	Intersection		109.9	F					
Eighth Avenue and West 42nd Street													
Eastbound	L	0.89	63.4	E	L	0.89	63.4	E		Unmitigated			
	T	0.32	12.3	B	T	0.36	12.8	B					
Westbound	T	1.06	94.7	F	T	1.13	120.0	F	+				
	-	-	-	-	-	-	-	-					
	R	0.15	26.8	C	R	0.15	26.8	C					
Northbound	T	0.66	27.4	C	T	0.70	28.5	C					
	R	1.11	171.3	F	R	1.11	171.3	F					
	Intersection		49.8	D	Intersection		55.2	E					
Eighth Avenue and West 36th Street													
Eastbound	L	0.42	31.2	C	L	0.42	31.2	C		Unmitigated			
	T	1.09	94.9	F	T	1.2	135.8	F	+				
Northbound	T	0.45	14.4	B	T	0.49	15.0	B					
	R	1.31	211.9	F	R	1.38	238.8	F	+				
	Intersection		67.1	E	Intersection		85.6	F					
Eighth Avenue and West 34th Street													
Eastbound	T	0.96	58.5	E	T	1.01	72.3	E	+	T	0.95	55.8	E
Westbound	T	1.15	115.7	F	T	1.21	142.5	F	+	T	1.14	111.7	F
	-	-	-	-	-	-	-	-		-	-	-	-
	R	0.41	27.2	C	R	0.41	27.2	C		R	0.38	24.8	C
Northbound	L	0.67	55.7	E	L	0.67	55.7	E		L	0.67	55.7	E
	TR	0.74	25.6	C	TR	0.79	27.6	C		TR	0.83	31.2	C
	Intersection		60.4	E	Intersection		71.8	E		Intersection		60.5	E
Eighth Avenue and West 33rd Street													
Westbound	TR	0.13	18.1	B	TR	0.13	18.1	B		TR	0.14	20.2	C
Northbound	L	1.12	131.1	F	L	1.33	211.3	F	+	L	1.11	121.5	F
	TR	0.47	19.7	B	TR	0.51	20.1	C		TR	0.47	17.8	B
	Intersection		45.8	D	Intersection		68.8	E		Intersection		44.4	D
Eighth Avenue and West 30th Street													
Eastbound	L	0.97	70.6	E	L	1.17	131.3	F	+	Unmitigated			
	T	1.02	67.0	E	T	1.24	145.7	F	+				
Northbound	TR	0.50	18.7	B	TR	0.52	19.0	B					
	Intersection		42.0	D	Intersection		80.4	F					
Eighth Avenue and West 29th Street													
Westbound	TR	1.38	210.1	F	TR	1.59	303.3	F	+	Unmitigated			
Northbound	L	0.97	80.9	F	L	1.00	89.4	F	+				
	T	0.32	14.2	B	T	0.34	14.4	B					
	Intersection		101.4	F	Intersection		146.6	F					
Eighth Avenue and West 23rd Street													
Eastbound	T	0.93	59.7	E	T	0.98	69.2	E	+	T	0.94	60.7	E
Westbound	T	0.56	30.5	C	T	0.65	33.4	C		T	0.63	31.8	C
	-	-	-	-	-	-	-	-		-	-	-	-
	R	0.59	34.4	C	R	0.59	34.4	C		R	0.57	32.6	C
Northbound	L	0.25	35.6	D	L	0.25	35.6	D		L	0.25	35.6	D
	TR	0.53	18.1	B	TR	0.57	18.6	B		TR	0.58	19.4	B
	Intersection		30.2	C	Intersection		32.7	C		Intersection		31.0	C
Seventh Avenue and West 30th Street													
Eastbound	T	0.87	44.6	D	T	0.98	61.7	E	+	Unmitigated			
	R	0.72	38.9	D	R	0.93	63.9	E	+				
Southbound	L	0.91	72.6	E	L	0.91	72.6	E					
	T	0.55	18.9	B	T	0.55	18.9	B					
	Intersection		31.8	C	Intersection		40.4	D					
Seventh Avenue and West 29th Street													
Westbound	L	0.51	28.3	C	L	0.51	28.3	C		Unmitigated			
	T	1.13	112.2	F	T	1.38	211.4	F	+				
Southbound	T	0.63	20.3	C	T	0.66	20.9	C					
	-	-	-	-	-	-	-	-					
	R	1.14	141.1	F	R	1.14	141.1	F					
	Intersection		55.3	E	Intersection		87.6	F					

Table MA-T3

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Proposed Project
Weekday PM Peak Hour

Intersection	Weekday PM Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Seventh Avenue and West 28th Street													
Eastbound	TR	0.85	49.1	D	TR	0.97	67.6	E	+	TR	0.90	52.8	D
Southbound	L	0.45	19.1	B	L	0.45	19.1	B		L	0.48	21.7	C
	T	0.57	16.3	B	T	0.60	16.7	B		T	0.62	18.3	B
	Intersection		23.1	C	Intersection		28.0	C		Intersection		26.1	C
Sixth Avenue and West 29th Street													
Westbound	T	1.41	229.3	F	T	1.60	313.2	F	+	Unmitigated			
	R	0.52	33.4	C	R	0.52	33.4	C					
Northbound	L	1.15	138.6	F	L	1.43	246.2	F	+				
	T	0.54	16.1	B	T	0.54	16.1	B					
	Intersection		78.3	E	Intersection		116.5	F					
Sixth Avenue and West 28th Street													
Eastbound	LT	1.02	82.1	F	LT	1.14	119.4	F	+	LT	1.03	78.7	E
Northbound	TR	0.67	18.4	B	TR	0.69	18.7	B		TR	0.74	21.7	C
	Intersection		30.7	C	Intersection		39.9	D		Intersection		33.7	C
Unsignalized Intersections													
Lincoln Tunnel and West 33rd Street													
Southbound	R	0.61	74.7	F	R	0.93	153.9	F	+	Unmitigated			
Notes: L = Left Turn; T = Through; R = Right Turn; LOS = Level of Service, + Denotes significant adverse traffic impact. ¹ The Eleventh Avenue and West 22nd Street intersection is controlled by the same traffic signal as the Twelfth Avenue and Eleventh Avenue intersection and was therefore also included for detailed analysis.													

Table MA-T4

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Proposed Project

Weekday Evening Peak Hour

Intersection	Weekday Evening Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Twelfth Avenue and West 42nd Street													
Eastbound	LTR	0.06	46.8	D	LTR	0.06	46.8	D		LTR	0.06	47.6	D
Westbound	L	0.23	49.2	D	L	0.23	49.2	D		L	0.24	50.2	D
	R	0.54	41.1	D	R	0.54	41.1	D		R	0.55	42.2	D
Northbound	TR	1.11	88.1	F	TR	1.13	96.8	F	+	TR	1.11	90.4	F
Southbound	L	0.80	80.2	F	L	0.80	80.2	F		L	0.80	80.2	F
	T	0.69	20.4	C	T	0.71	21.0	C		T	0.70	20.2	C
	Intersection		63.7	E	Intersection		68.7	E		Intersection		64.9	E
Twelfth Avenue and West 30th Street													
Eastbound	LTR	0.00	61.7	E	LTR	0.00	61.7	E		LTR	0.00	61.7	E
Northbound	TR	0.92	26.9	C	TR	0.96	31.6	C		TR	0.98	36.5	D
Southbound	L	0.95	118.0	F	L	1.03	138.3	F	+	L	0.93	109.8	F
	TR	0.56	14.0	B	TR	0.56	14.0	B		TR	0.57	15.2	B
	Intersection		25.9	C	Intersection		30.0	C		Intersection		32.6	C
Twelfth Avenue and West 29th Street													
Eastbound	LR	0.00	50.4	D	LR	0.00	50.4	D		Unmitigated			
Westbound	L	0.14	53.0	D	L	0.14	53.0	D					
	R	1.56	333.1	F	R	1.9	481.1	F	+				
Northbound	T	0.78	16.8	B	T	0.79	17.1	B					
Southbound	TR	0.55	12.1	B	TR	0.55	12.1	B					
	Intersection		40.8	D	Intersection		59.7	E					
Eleventh Avenue and West 42nd Street													
Eastbound	T	0.40	23.2	C	T	0.40	23.2	C		T	0.40	23.2	C
	R	1.73	375.9	F	R	1.73	375.9	F		R	1.73	375.9	F
Westbound	L	0.72	57.4	E	L	0.88	77.4	E	+	L	0.76	57.3	E
	LT	0.34	11.7	B	LT	0.34	11.7	B		LT	0.33	10.6	B
Southbound	L	0.2	23.3	C	L	0.2	23.3	C		L	0.22	25.1	C
	T	0.85	33.6	C	T	0.87	34.7	C		T	0.93	41.5	D
	R	0.38	28.2	C	R	0.38	28.2	C		R	0.43	32.0	C
	Intersection		85.6	F	Intersection		86.4	F		Intersection		89.0	F
Eleventh Avenue and West 34th Street													
Eastbound	L	0.40	20.0	B	L	0.39	20.6	C		Unmitigated			
	T	0.41	28.5	C	T	0.38	27.9	C					
	R	0.70	43.9	D	R	1.09	114.0	F	+				
Westbound	L	0.71	34.9	C	L	0.79	41.9	D					
	TR	0.60	33.3	C	TR	0.70	37.7	D					
Southbound	LTR	0.84	26.8	C	LTR	0.91	31.9	C					
	Intersection		29.1	C	Intersection		40.6	D					
Eleventh Avenue and West 33rd Street													
Eastbound	-	-	-	-	R	2.14	556.0	F	+	Unmitigated			
Westbound	L	0.78	50.7	D	L	0.96	75.9	E	+				
	LT	0.52	34.5	C	LT	0.92	54.7	D					
Southbound	TR	0.72	25.9	C	TR	0.98	43.2	D					
	Intersection		30.1	C	Intersection		155.4	F					
Eleventh Avenue and West 32nd Street Extension													
Eastbound	TR	0.00	28.0	C	TR	0.00	28.0	C		TR	0.00	31.7	C
Southbound	LTR	0.90	33.0	C	LTR	1.17	111.7	F	+	LTR	1.04	54.4	D
	Intersection		33.0	C	Intersection		111.6	F		Intersection		54.4	D
Eleventh Avenue and West 31st Street Extension													
Eastbound	TR	0.33	22.3	C	-	-	-	-		Unmitigated			
Southbound	LTR	0.90	31.9	C	LT	1.11	83.8	F	+				
	Intersection		31.3	C	Intersection		83.8	F					
Eleventh Avenue and West 30th Street													
Eastbound	T	0.52	24.5	C	T	0.65	28.4	C		T	0.71	33.4	C
	R	0.18	19.0	B	R	0.29	20.8	C		R	0.33	23.7	C
Southbound	LT	0.74	23.9	C	LT	1.12	86.0	F	+	LT	1.03	50.5	D
	Intersection		23.8	C	Intersection		76.7	E		Intersection		47.4	D
Eleventh Avenue and West 24th Street													
Eastbound	R	0.15	25.8	C	R	0.15	25.8	C		R	0.17	27.5	C
Northbound	L	0.31	27.5	C	L	0.31	27.5	C		L	0.34	29.3	C
Southbound	L	0.27	8.3	A	L	0.27	8.3	A		L	0.27	8.3	A
	TR	1.08	86.8	F	TR	1.17	118.7	F	+	TR	1.09	85.7	F
	R	0.43	29.8	C	R	0.44	30.3	C		R	0.40	27.5	C
	Intersection		59.0	E	Intersection		79.4	E		Intersection		59.7	E
Twelfth Avenue and Eleventh Avenue													
Westbound	TR	1.41	253.5	F	TR	1.50	289.4	F	+	TR	1.41	250.6	F
Northbound	T	0.90	29.4	C	T	0.92	30.8	C		T	0.94	34.3	C
Southbound	T	0.50	12.3	B	T	0.50	12.3	B		T	0.51	13.3	B
	Intersection		68.8	E	Intersection		78.6	E		Intersection		72.6	E
Eleventh Avenue and West 22nd Street ¹													
Westbound	R	0.05	10.9	B	R	0.05	10.9	B		R	0.05	11.7	B
Northbound	T	0.18	41.7	D	T	0.18	41.7	D		T	0.17	40.1	D
	Intersection		32.7	C	Intersection		32.7	C		Intersection		31.8	C
Tenth Avenue and West 33rd Street													
Westbound	TR	0.77	37.0	D	TR	1.01	69.2	E	+	Unmitigated			
Northbound	LT	0.78	22.9	C	LT	1.01	45.6	D					
	Intersection		25.6	C	Intersection		50.4	D					

Table MA-T4

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Proposed Project

Weekday Evening Peak Hour

Intersection	Weekday Evening Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Tenth Avenue and West 30th Street													
Eastbound	L	0.61	32.9	C	L	1.43	237.6	F	+	Unmitigated			
	T	1.09	100.5	F	T	1.80	399.1	F	+				
Northbound	T	0.80	27.4	C	T	0.92	34.5	C					
	R	1.87	427.5	F	R	1.88	433.0	F	+				
	Intersection		129.2	F	Intersection		213.6	F					
Tenth Avenue and West 29th Street													
Westbound	T	0.81	40.6	D	T	0.87	46.7	D		T	0.77	34.1	C
	R	0.84	45.7	D	R	1.05	89.6	F	+	R	0.92	52.3	D
Northbound	LT	0.66	20.0	B	LT	0.70	20.8	C		LT	0.78	25.1	C
	Intersection		27.0	C	Intersection		36.2	D		Intersection		31.0	C
Tenth Avenue and West 23rd Street													
Eastbound	LT	0.28	19.0	B	LT	0.31	19.4	B		Unmitigated			
Westbound	TR	1.10	109.4	F	TR	1.21	152.3	F	+				
Northbound	LTR	1.04	58.8	E	LTR	1.07	72.1	E	+				
	Intersection		62.8	E	Intersection		79.9	E					
Ninth Avenue and West 35th Street													
Westbound	LT	0.98	70.3	E	LT	1.15	121.2	F	+	LT	1.00	69.8	E
Southbound	TR	0.48	12.9	B	TR	0.51	13.3	B		TR	0.56	16.2	B
	Intersection		28.5	C	Intersection		44.9	D		Intersection		31.9	C
Ninth Avenue and West 33rd Street													
Westbound	LT	0.80	44.9	D	LT	0.92	59.9	E	+	LT	0.89	53.4	D
Southbound	TR	0.68	19.3	B	TR	0.76	21.4	C		TR	0.78	22.7	C
	Intersection		24.3	C	Intersection		29.6	C		Intersection		29.2	C
Ninth Avenue and West 30th Street													
Eastbound	T	0.43	28.4	C	T	0.68	33.6	C		T	0.66	32.1	C
	R	0.81	42.2	D	R	0.94	57.8	E	+	R	0.90	50.2	D
Southbound	LTR	0.71	22.9	C	LTR	0.72	22.9	C		LTR	0.74	24.1	C
	Intersection		28.0	C	Intersection		33.3	C		Intersection		31.8	C
Ninth Avenue and West 29th Street													
Westbound	L	0.24	21.0	C	L	0.24	21.0	C		Unmitigated			
	T	1.01	71.0	E	T	1.21	140.9	F	+				
Southbound	TR	0.84	27.5	C	TR	0.88	30.0	C					
	Intersection		38.3	D	Intersection		61.0	E					
Ninth Avenue and West 23rd Street													
Eastbound	T	0.50	31.3	C	T	0.55	32.5	C		T	0.53	31.1	C
	R	0.44	32.8	C	R	0.44	32.8	C		R	0.43	31.3	C
Westbound	T	0.79	45.4	D	T	0.89	56.8	E	+	T	0.86	51.1	D
Southbound	L	0.99	94.9	F	L	0.99	94.9	F		L	0.99	94.9	F
	TR	0.53	15.1	B	TR	0.56	15.6	B		TR	0.57	16.3	B
	Intersection		31.2	C	Intersection		33.1	C		Intersection		32.4	C
Eighth Avenue and West 42nd Street													
Eastbound	L	0.77	49.3	D	L	0.77	49.3	D		Unmitigated			
	T	0.39	13.3	B	T	0.42	13.8	B					
Westbound	-	-	-	-	-	-	-	-					
	TR	1.13	120.8	F	TR	1.19	143.1	F	+				
	-	-	-	-	-	-	-	-					
Northbound	T	0.64	27.1	C	T	0.69	28.1	C					
	R	1.10	171.5	F	R	1.10	171.5	F					
	Intersection		53.3	D	Intersection		58.1	E					
Eighth Avenue and West 36th Street													
Eastbound	L	0.41	29.6	C	L	0.41	29.6	C		Unmitigated			
	T	1.13	108.5	F	T	1.24	151.2	F	+				
Northbound	T	0.44	14.3	B	T	0.48	14.8	B					
	R	1.22	162.8	F	R	1.26	179.2	F	+				
	Intersection		71.1	E	Intersection		89.2	F					
Eighth Avenue and West 34th Street													
Eastbound	T	1.03	78.7	E	T	1.09	99.1	F	+	T	1.03	76.5	E
Westbound	-	-	-	-	-	-	-	-		-	-	-	-
	TR	1.19	135.8	F	TR	1.25	161.6	F	+	TR	1.18	129.8	F
	-	-	-	-	-	-	-	-		-	-	-	-
Northbound	L	0.47	44.9	D	L	0.47	44.9	D		L	0.47	44.9	D
	TR	0.70	24.3	C	TR	0.75	25.8	C		TR	0.79	28.9	C
	Intersection		67.9	E	Intersection		80.1	F		Intersection		67.6	E
Eighth Avenue and West 33rd Street													
Westbound	TR	0.08	17.7	B	TR	0.08	17.7	B		TR	0.09	19.7	B
Northbound	L	1.09	121.1	F	L	1.29	195.3	F	+	L	1.08	109.8	F
	TR	0.48	19.8	B	TR	0.52	20.3	C		TR	0.48	17.9	B
	Intersection		43.5	D	Intersection		64.5	E		Intersection		41.2	D
Eighth Avenue and West 29th Street													
Westbound	TR	1.20	133.2	F	TR	1.40	216.4	F	+	Unmitigated			
Northbound	L	0.72	38.4	D	L	0.74	39.7	D					
	T	0.32	14.3	B	T	0.34	14.5	B					
	Intersection		62.1	E	Intersection		98.8	F					

Table MA-T4

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Proposed Project
Weekday Evening Peak Hour

Intersection	Weekday Evening Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Eighth Avenue and West 23rd Street													
Eastbound	T	0.98	69.8	E	T	1.02	80.8	F	+	T	0.95	61.7	E
Westbound	-	-	-	-	-	-	-	-		-			
	TR	1.09	105.3	F	TR	1.17	133.9	F	+	TR	1.09	103.5	F
	-	-	-	-	-	-	-	-		-			
Northbound	L	0.05	32.0	C	L	0.05	32.0	C		L	0.05	32.0	C
	TR	0.51	17.8	B	TR	0.54	18.2	B		TR	0.57	19.9	B
	Intersection		48.5	D	Intersection		57.8	E		Intersection		47.7	D
Seventh Avenue and West 29th Street													
Westbound	L	0.36	24.0	C	L	0.36	24.0	C		Unmitigated			
	T	1.00	68.1	E	T	1.22	146.8	F	+				
Southbound	-	-	-	-	-	-	-	-					
	TR	0.77	24.1	C	TR	0.80	25.2	C					
	-	-	-	-	-	-	-	-					
	Intersection		35.3	D	Intersection		60.3	E					
Sixth Avenue and West 29th Street													
Westbound	T	1.09	101.5	F	T	1.25	160.3	F	+	Unmitigated			
	R	0.36	27.3	C	R	0.36	27.3	C					
Northbound	L	0.73	34.7	C	L	0.93	62.7	E	+				
	T	0.47	15.3	B	T	0.47	15.3	B					
	Intersection		37.6	D	Intersection		57.2	E					
Sixth Avenue and West 28th Street													
Eastbound	LT	1.00	73.7	E	LT	1.12	108.8	F	+	LT	1.00	68.6	E
Northbound	TR	0.61	17.2	B	TR	0.62	17.5	B		TR	0.67	20.1	C
	Intersection		30.0	C	Intersection		39.6	D		Intersection		31.9	C
Sixth Avenue and West 23rd Street													
Eastbound	T	0.99	62.2	E	T	1.02	72.0	E	+	Unmitigated			
Westbound	-	-	-	-	-	-	-	-					
	TR	0.62	27.8	C	TR	0.70	31.1	C					
	-	-	-	-	-	-	-	-					
Northbound	L	0.34	21.2	C	L	0.34	21.2	C					
	T	0.44	14.9	B	T	0.45	15.1	B					
	R	0.94	73.1	E	R	0.94	73.1	E					
Notes: L = Left Turn; T= Through; R = Right Turn; LOS = Level of Service, + Denotes significant adverse traffic impact.													
1 The Eleventh Avenue and West 22nd Street intersection is controlled by the same traffic signal as the Twelfth Avenue and Eleventh Avenue intersection and was therefore also included for detailed analysis.													

Table MA-T5

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Proposed Project

Saturday Middy/Afternoon Peak Hour

Intersection	Saturday Middy/Afternoon Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Twelfth Avenue and West 54th Street													
Northbound	TR	1.05	56.5	E	TR	1.07	64.7	E	+	TR	1.06	58.4	E
Southbound	L	0.33	33.2	C	L	0.33	33.2	C		L	0.34	34.1	C
	T	0.75	19.2	B	T	0.76	19.6	B		T	0.75	18.7	B
	Intersection		38.5	D	Intersection		42.9	D		Intersection		39.3	D
Twelfth Avenue and West 42nd Street													
Eastbound	LTR	0.06	32.5	C	LTR	0.06	32.5	C		LTR	0.07	33.3	C
Westbound	L	0.23	34.7	C	L	0.23	34.7	C		L	0.24	35.6	D
	R	0.57	22.5	C	R	0.57	22.5	C		R	0.58	23.4	C
Northbound	TR	1.23	144.6	F	TR	1.26	157.1	F	+	TR	1.23	145.2	F
Southbound	L	0.82	56.2	E	L	0.82	56.2	E		L	0.82	56.2	E
	T	1.02	56.8	E	T	1.05	66.0	E	+	T	1.03	59.4	E
	Intersection		97.3	F	Intersection		106.8	F		Intersection		98.7	F
Twelfth Avenue and West 30th Street													
Eastbound	LTR	0.00	46.8	D	LTR	0.00	46.8	D		LTR	0.00	46.8	D
Northbound	TR	0.83	21.8	C	TR	0.88	23.8	C		TR	0.89	25.1	C
Southbound	L	1.22	186.5	F	L	1.26	201.1	F	+	L	1.19	173.2	F
	TR	0.79	20.8	C	TR	0.79	20.8	C		TR	0.81	21.8	C
	Intersection		29.6	C	Intersection		31.5	C		Intersection		31.2	C
Twelfth Avenue and West 29th Street													
Eastbound	LR	0.00	39.2	D	LR	0.00	39.2	D		LR	0.00	36.0	D
Westbound	L	0.11	41.1	D	L	0.11	41.1	D		L	0.09	37.5	D
	R	1.94	485.5	F	R	2.25	623.7	F	+	R	1.91	469.1	F
Northbound	T	0.66	15.3	B	T	0.67	15.6	B		T	0.71	18.6	B
Southbound	TR	0.77	18.3	B	TR	0.77	18.3	B		TR	0.81	22.1	C
	Intersection		67.1	E	Intersection		90.5	F		Intersection		74.6	E
Eleventh Avenue and West 42nd Street													
Eastbound	T	0.27	19.8	B	T	0.27	19.8	B		T	0.27	19.8	B
	R	1.93	461.8	F	R	1.93	461.8	F		R	1.93	461.8	F
Westbound	L	1.03	126.4	F	L	1.30	218.8	F	+	L	1.06	126.9	F
	LT	0.49	15.1	B	LT	0.49	15.1	B		LT	0.47	13.6	B
Southbound	L	0.18	21.6	C	L	0.18	21.6	C		L	0.2	23.3	C
	T	0.81	30.7	C	T	0.83	31.5	C		T	0.89	36.0	D
	R	0.44	27.8	C	R	0.44	27.8	C		R	0.49	31.3	C
	Intersection		120.9	F	Intersection		125.3	F		Intersection		122.6	F
Eleventh Avenue and West 39th Street													
Westbound	LTR	0.32	25.5	C	LTR	0.32	25.5	C		LTR	0.34	27.3	C
Northbound	LT	0.12	13.2	B	LT	0.12	13.2	B		LT	0.12	12.1	B
Southbound	TR	1.24	137.5	F	TR	1.29	159.1	F	+	TR	1.23	132.8	F
	Intersection		117.3	F	Intersection		135.9	F		Intersection		114.1	F
Eleventh Avenue and West 38th Street													
Northbound	L	0.31	22.2	C	L	0.31	22.2	C		Unmitigated			
	TR	0.16	11.4	B	TR	0.16	11.4	B					
Southbound	L	0.49	17.3	B	L	0.49	17.3	B					
	TR	1.11	79.5	E	TR	1.15	98.5	F	+				
	Intersection		65.3	E	Intersection		80.7	F					
Eleventh Avenue and West 37th Street													
Eastbound	LR	0.00	23.5	C	LR	0.00	23.5	C		LR	0.00	24.9	C
Westbound	L	0.55	33.6	C	L	0.69	39.4	D		L	0.75	45.5	D
	R	0.27	27.5	C	R	0.27	27.5	C		R	0.29	29.5	C
Northbound	T	0.08	11.8	B	T	0.08	11.8	B		T	0.07	10.8	B
Southbound	T	1.16	102.7	F	T	1.21	122.8	F	+	T	1.16	99.9	F
	Intersection		87.6	F	Intersection		103.4	F		Intersection		85.9	F
Eleventh Avenue and West 36th Street													
Northbound	TR	0.15	11.9	B	TR	0.13	11.7	B		Unmitigated			
Southbound	LT	1.04	55.2	E	LT	1.10	75.1	E	+				
	Intersection		50.9	D	Intersection		69.7	E					
Eleventh Avenue and West 34th Street													
Eastbound	L	0.60	28.4	C	L	0.54	26.6	C		Unmitigated			
	T	0.45	29.3	C	T	0.42	28.6	C					
	R	1.09	119.5	F	R	1.59	316.6	F	+				
Westbound	L	0.87	54.5	D	L	0.96	71.1	E	+				
	TR	0.68	36.5	D	TR	0.75	39.8	D					
Southbound	LTR	0.97	39.6	D	LTR	1.05	61.8	E	+				
	Intersection		45.7	D	Intersection		85.2	F					
Eleventh Avenue and West 33rd Street													
Eastbound	-	-	-	-	R	2.37	662.9	F	+	Unmitigated			
Westbound	L	0.77	49.7	D	L	0.99	82.3	F	+				
	LT	0.49	33.9	C	LT	0.98	65.4	E	+				
Southbound	TR	0.83	28.9	C	TR	1.12	91.4	F	+				
	Intersection		31.7	C	Intersection		207.2	F					
Eleventh Avenue and West 32nd Street Extension													
Eastbound	TR	0.00	28.0	C	TR	0.04	28.5	C		Unmitigated			
Southbound	LTR	1.09	75.6	E	LTR	1.40	210.4	F	+				
	Intersection		75.6	E	Intersection		209.7	F					
Eleventh Avenue and West 31st Street Extension													
Eastbound	TR	0.33	22.4	C	-	-	-	-		Unmitigated			
Southbound	LTR	1.11	83.3	F	LT	1.33	180.8	F	+				
	Intersection		80.3	F	Intersection		180.8	F					

Table MA-T5

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Proposed Project

Saturday Middy/Afternoon Peak Hour

Intersection	Saturday Middy/Afternoon Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Eleventh Avenue and West 30th Street													
Eastbound	T	0.65	29.4	C	T	0.73	32.6	C		Unmitigated			
	R	0.44	25.0	C	R	0.50	26.7	C					
Southbound	LT	0.95	36.7	D	LT	1.41	216.3	F	+				
	Intersection		35.1	D	Intersection		186.8	F					
Eleventh Avenue and West 29th Street													
Westbound	L	0.67	42.4	D	L	0.67	42.4	D		L	0.67	42.4	D
	T	0.53	16.9	B	T	0.57	17.7	B		T	0.59	19.6	B
Southbound	TR	0.94	38.3	D	TR	1.07	71.1	E	+	TR	1.01	49.2	D
	Intersection		35.1	D	Intersection		60.1	E		Intersection		43.8	D
Eleventh Avenue and West 24th Street													
Eastbound	R	0.26	27.0	C	R	0.26	27.0	C		R	0.28	28.9	C
Northbound	L	0.27	26.9	C	L	0.27	26.9	C		L	0.30	28.7	C
Southbound	L	0.47	10.6	B	L	0.47	10.6	B		L	0.47	10.6	B
	TR	1.23	143.5	F	TR	1.31	177.3	F	+	TR	1.22	137.4	F
	R	0.49	33.7	C	R	0.51	35.3	D		R	0.47	31.6	C
	Intersection		87.2	F	Intersection		108.2	F		Intersection		85.9	F
Twelfth Avenue and Eleventh Avenue													
Westbound	TR	1.41	235.2	F	TR	1.48	266.9	F	+	TR	1.40	228.6	F
Northbound	T	0.81	25.4	C	T	0.83	26.4	C		T	0.86	28.9	C
Southbound	T	0.54	14.4	B	T	0.54	14.4	B		T	0.55	15.7	B
	Intersection		76.3	E	Intersection		86.6	F		Intersection		77.8	E
Eleventh Avenue and West 22nd Street ¹													
Westbound	R	0.06	13.2	B	R	0.06	13.2	B		R	0.06	13.2	B
Northbound	T	0.14	27.2	C	T	0.14	27.2	C		T	0.14	27.2	C
	Intersection		22.7	C	Intersection		22.7	C		Intersection		22.7	C
Tenth Avenue and West 35th Street													
Westbound	TR	0.82	47.6	D	TR	0.89	56.1	E	+	TR	0.86	50.1	D
Northbound	LT	0.70	21.3	C	LT	0.79	23.6	C		LT	0.81	24.9	C
	Intersection		25.0	C	Intersection		28.2	C		Intersection		28.5	C
Tenth Avenue and West 34th Street													
Eastbound	LT	1.07	100.7	F	LT	1.10	113.6	F	+	LT	1.02	85.4	F
Westbound	T	0.74	35.1	D	T	0.80	39.0	D		T	0.78	36.4	D
	R	0.44	26.5	C	R	0.44	26.5	C		R	0.42	25.4	C
Northbound	LTR	0.80	23.4	C	LTR	0.95	33.9	C		LTR	0.98	38.6	D
	Intersection		34.7	C	Intersection		42.4	D		Intersection		42.4	D
Tenth Avenue and West 33rd Street													
Westbound	TR	0.69	32.5	C	TR	0.92	50.9	D		Unmitigated			
Northbound	LT	0.83	24.6	C	LT	1.10	76.2	E	+				
	Intersection		25.9	C	Intersection		71.6	E					
Tenth Avenue and West 31st Street													
Eastbound	L	0.58	32.7	C	L	1.40	227.7	F	+	Unmitigated			
	T	1.62	320.0	F	T	2.30	622.5	F	+				
Northbound	T	0.88	31.6	C	T	1.01	51.5	D					
	R	1.19	154.5	F	R	1.19	154.5	F					
	Intersection		123.0	F	Intersection		234.5	F					
Tenth Avenue and West 29th Street													
Westbound	T	0.77	36.5	D	T	0.82	39.9	D		Unmitigated			
	R	1.10	108.2	F	R	1.35	204.5	F	+				
Northbound	LT	0.80	23.5	C	LT	0.85	25.1	C					
	Intersection		37.8	D	Intersection		57.3	E					
Tenth Avenue and West 23rd Street													
Eastbound	LT	0.42	20.8	C	LT	0.45	21.4	C		Unmitigated			
Westbound	TR	1.14	127.6	F	TR	1.31	194.6	F	+				
Northbound	LTR	1.00	48.1	D	LTR	1.04	58.7	E	+				
	Intersection		55.3	E	Intersection		73.7	E					
Ninth Avenue and West 42nd Street													
Eastbound	T	0.88	52.2	D	T	0.96	65.1	E	+	T	0.89	50.7	D
	R	0.47	33.6	C	R	0.47	33.6	C		R	0.43	30.5	C
Westbound	L	0.70	57.0	E	L	0.70	57.0	E		L	0.70	57.0	E
	T	0.27	15.6	B	T	0.32	16.2	B		T	0.31	14.8	B
Southbound	L	0.80	68.4	E	L	0.80	68.4	E		L	0.80	68.4	E
	TR	0.82	27.6	C	TR	0.85	29.2	C		TR	0.90	33.9	C
	Intersection		35.2	D	Intersection		38.2	D		Intersection		38.1	D
Ninth Avenue and West 35th Street													
Westbound	LT	1.07	93.7	F	LT	1.23	154.8	F	+	LT	1.08	94.3	F
Southbound	TR	0.60	14.7	B	TR	0.63	15.2	B		TR	0.69	18.6	B
	Intersection		34.4	C	Intersection		52.6	D		Intersection		38.9	D
Ninth Avenue and West 34th Street													
Eastbound	T	0.93	57.7	E	T	1.00	73.3	E	+	T	0.94	56.2	E
	R	0.72	43.0	D	R	0.66	38.1	D		R	0.60	33.5	C
Westbound	T	0.98	56.8	E	T	1.03	70.7	E	+	T	0.98	55.4	E
Southbound	L	0.51	44.0	D	L	0.51	44.0	D		L	0.51	44.0	D
	TR	0.69	21.2	C	TR	0.74	22.3	C		TR	0.78	24.8	C
	Intersection		38.5	D	Intersection		44.6	D		Intersection		38.9	D

Table MA-T6

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Proposed Project

Saturday Evening Peak Hour

Intersection	Saturday Evening Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Twelfth Avenue and West 42nd Street													
Eastbound	LTR	0.03	32.0	C	LTR	0.03	32.0	C		LTR	0.03	33.5	C
Westbound	L	0.21	34.2	C	L	0.21	34.2	C		L	0.22	35.9	D
	R	0.42	18.9	B	R	0.42	18.9	B		R	0.43	20.3	C
Northbound	TR	1.17	120.5	F	TR	1.21	135.4	F	+	TR	1.16	112.5	F
Southbound	L	0.68	48.8	D	L	0.68	48.8	D		L	0.68	48.8	D
	T	1.03	59.5	E	T	1.07	72.0	E	+	T	1.03	58.4	E
	Intersection		85.7	F	Intersection		97.8	F		Intersection		81.7	F
Twelfth Avenue and West 30th Street													
Eastbound	LTR	0.00	46.8	D	LTR	0.00	46.8	D		LTR	0.00	46.8	D
Northbound	TR	0.72	18.2	B	TR	0.77	19.5	B		TR	0.78	20.4	C
Southbound	L	1.15	158.7	F	L	1.18	170.6	F	+	L	1.12	146.1	F
	TR	0.72	18.6	B	TR	0.72	18.6	B		TR	0.73	19.4	B
	Intersection		25.7	C	Intersection		27.0	C		Intersection		26.5	C
Twelfth Avenue and West 29th Street													
Eastbound	LR	0.00	39.2	D	LR	0.00	39.2	D		Unmitigated			
Westbound	L	0.11	40.7	D	L	0.11	40.7	D					
	R	1.37	236.8	F	R	1.77	407.3	F	+				
Northbound	T	0.59	14.0	B	T	0.60	14.3	B					
Southbound	TR	0.71	16.8	B	TR	0.71	16.8	B					
	Intersection		35.0	C	Intersection		58.3	E					
Eleventh Avenue and West 42nd Street													
Eastbound	T	0.31	20.4	C	T	0.31	20.4	C		T	0.31	20.4	C
	R	1.72	371.1	F	R	1.72	371.1	F		R	1.72	371.1	F
Westbound	L	0.99	114.3	F	L	1.26	204.5	F	+	L	1.03	118.0	F
	LT	0.38	13.3	B	LT	0.38	13.3	B		LT	0.37	12.0	B
Southbound	L	0.11	20.6	C	L	0.11	20.6	C		L	0.11	22.1	C
	T	0.80	30.3	C	T	0.84	31.8	C		T	0.90	36.6	D
	R	0.41	26.5	C	R	0.41	26.5	C		R	0.45	29.5	C
	Intersection		86.5	F	Intersection		91.5	F		Intersection		89.2	F
Eleventh Avenue and West 34th Street													
Eastbound	L	0.27	18.0	B	L	0.27	19.0	B		Unmitigated			
	T	0.46	29.4	C	T	0.44	29.0	C					
	R	0.68	42.8	D	R	1.41	241.0	F	+				
Westbound	L	0.89	56.1	E	L	1.03	87.4	F	+				
	TR	0.62	33.6	C	TR	0.73	38.7	D					
Southbound	LTR	0.78	24.5	C	LTR	0.90	30.8	C					
	Intersection		30.6	C	Intersection		61.8	E					
Eleventh Avenue and West 33rd Street													
Eastbound	-	-	-	-	R	2.58	754.5	F	+	Unmitigated			
Westbound	L	0.83	54.9	D	L	1.15	132.8	F	+				
	LT	0.55	35.0	D	LT	1.12	110.1	F	+				
Southbound	TR	0.62	24.1	C	TR	1.14	99.5	F	+				
	Intersection		30.0	C	Intersection		255.4	F					
Eleventh Avenue and West 32nd Street Extension													
Eastbound	TR	0.00	28.0	C	TR	0.00	28.0	C		Unmitigated			
Southbound	LTR	0.93	35.5	D	LTR	1.29	163.3	F	+				
	Intersection		35.5	D	Intersection		163.2	F					
Eleventh Avenue and West 31st Street Extension													
Eastbound	TR	0.21	20.2	C	-	-	-	-		Unmitigated			
Southbound	LTR	0.92	34.0	C	LT	1.23	134.3	F	+				
	Intersection		33.5	C	Intersection		134.3	F					
Eleventh Avenue and West 30th Street													
Eastbound	T	0.65	29.1	C	T	0.68	30.5	C		Unmitigated			
	R	0.20	20.1	C	R	0.27	21.3	C					
Southbound	LT	0.75	25.5	C	LT	1.26	149.4	F	+				
	Intersection		25.9	C	Intersection		131.5	F					
Eleventh Avenue and West 24th Street													
Eastbound	R	0.24	26.8	C	R	0.24	26.8	C		R	0.26	28.6	C
Northbound	L	0.30	27.3	C	L	0.30	27.3	C		L	0.33	29.1	C
Southbound	L	0.42	10.0	B	L	0.42	10.0	B		L	0.42	10.0	B
	TR	1.02	64.9	E	TR	1.11	96.1	F	+	TR	1.03	68.2	E
	R	0.20	25.0	C	R	0.21	25.1	C		R	0.19	23.3	C
	Intersection		42.6	D	Intersection		60.5	E		Intersection		45.7	D
Twelfth Avenue and Eleventh Avenue													
Westbound	TR	1.24	161.6	F	TR	1.32	198.0	F	+	TR	1.25	164.4	F
Northbound	T	0.78	24.3	C	T	0.80	25.2	C		T	0.83	27.5	C
Southbound	T	0.58	15.2	B	T	0.58	15.2	B		T	0.60	16.5	B
	Intersection		53.0	D	Intersection		63.5	E		Intersection		56.8	E
Eleventh Avenue and West 22nd Street ¹													
Westbound	R	0.07	13.3	B	R	0.07	13.3	B		R	0.08	14.3	B
Northbound	T	0.06	26.1	C	T	0.06	26.1	C		T	0.06	24.8	C
	Intersection		18.9	B	Intersection		18.9	B		Intersection		18.9	B
Tenth Avenue and West 34th Street													
Eastbound	LT	1.03	85.9	F	LT	1.05	93.0	F	+	LT	0.98	71.0	E
Westbound	T	0.68	32.4	C	T	0.76	36.3	D		T	0.74	34.1	C
	R	0.40	25.4	C	R	0.40	25.4	C		R	0.39	24.4	C
Northbound	LTR	0.73	21.6	C	LTR	0.89	28.1	C		LTR	0.92	30.5	C
	Intersection		32.8	C	Intersection		37.1	D		Intersection		35.7	D

Table MA-T6

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Proposed Project

Saturday Evening Peak Hour

Intersection	Saturday Evening Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Tenth Avenue and West 33rd Street													
Westbound	TR	0.71	33.2	C	TR	1.10	96.3	F	+	Unmitigated			
Northbound	LT	0.76	22.3	C	LT	1.04	55.0	E	+				
	Intersection		24.3	C	Intersection		63.8	E					
Tenth Avenue and West 30th Street													
Eastbound	L	0.55	30.7	C	L	1.41	229.7	F	+	Unmitigated			
	T	1.23	151.5	F	T	2.01	495.3	F	+				
Northbound	T	0.82	28.2	C	T	0.98	43.5	D					
	R	1.58	300.1	F	R	1.75	373.9	F	+				
	Intersection		109.1	F	Intersection		229.5	F					
Tenth Avenue and West 29th Street													
Westbound	T	0.55	27.9	C	T	0.61	29.3	C		Unmitigated			
	R	0.88	49.8	D	R	1.18	132.5	F	+				
Northbound	LT	0.67	20.1	C	LT	0.73	21.3	C					
	Intersection		25.8	C	Intersection		42.5	D					
Tenth Avenue and West 23rd Street													
Eastbound	LT	0.30	19.3	B	LT	0.34	19.8	B		Unmitigated			
Westbound	TR	1.10	108.4	F	TR	1.25	164.1	F	+				
Northbound	LTR	0.95	39.0	D	LTR	1.01	51.9	D					
	Intersection		49.6	D	Intersection		69.7	E					
Ninth Avenue and West 42nd Street													
Eastbound	T	0.95	62.8	E	T	1.02	79.5	E	+	T	0.94	59.5	E
	R	1.02	102.6	F	R	1.02	102.6	F		R	0.91	72.3	E
Westbound	L	0.64	54.6	D	L	0.64	54.6	D		L	0.64	54.6	D
	T	0.27	15.8	B	T	0.33	16.7	B		T	0.31	15.3	B
Southbound	L	0.74	62.2	E	L	0.74	62.2	E		L	0.74	62.2	E
	TR	0.78	26.2	C	TR	0.83	27.9	C		TR	0.87	31.8	C
	Intersection		42.1	D	Intersection		45.7	D		Intersection		41.6	D
Ninth Avenue and West 35th Street													
Westbound	LT	0.80	42.6	D	LT	0.99	73.2	E	+	LT	0.89	49.6	D
Southbound	TR	0.63	15.1	B	TR	0.67	16.0	B		TR	0.72	18.8	B
	Intersection		20.2	C	Intersection		28.4	C		Intersection		25.5	C
Ninth Avenue and West 30th Street													
Eastbound	T	0.49	30.0	C	T	0.77	37.9	D		T	0.69	32.2	C
	R	0.96	60.9	E	R	1.12	109.3	F	+	R	0.99	63.1	E
Southbound	LTR	0.80	28.2	C	LTR	0.80	28.3	C		LTR	0.88	34.6	C
	Intersection		36.7	D	Intersection		51.3	D		Intersection		41.3	D
Ninth Avenue and West 29th Street													
Westbound	L	0.25	21.9	C	L	0.25	21.9	C		Unmitigated			
	T	1.03	75.7	E	T	1.27	166.3	F	+				
Southbound	TR	0.90	32.0	C	TR	0.95	37.9	D					
	Intersection		42.1	D	Intersection		72.1	E					
Ninth Avenue and West 23rd Street													
Eastbound	T	0.45	30.9	C	T	0.50	32.0	C		T	0.44	28.4	C
	R	0.57	38.7	D	R	0.57	38.7	D		R	0.50	32.8	C
Westbound	T	0.88	56.3	E	T	1.03	86.9	F	+	T	0.92	57.2	E
Southbound	L	0.72	54.0	D	L	0.72	54.0	D		L	0.72	54.0	D
	TR	0.63	17.8	B	TR	0.67	18.6	B		TR	0.72	21.5	C
	Intersection		29.1	C	Intersection		35.2	D		Intersection		31.2	C
Eighth Avenue and West 42nd Street													
Eastbound	L	0.64	43.7	D	L	0.64	43.7	D		Unmitigated			
	T	0.49	15.9	B	T	0.53	16.7	B					
Westbound	-	-	-	-	-	-	-	-					
	TR	0.92	63.5	E	TR	1.01	84.0	F	+				
	-	-	-	-	-	-	-	-					
Northbound	T	0.23	20.0	C	T	0.28	20.6	C					
	R	1.06	175.4	F	R	1.06	175.4	F					
	Intersection		39.5	D	Intersection		44.0	D					
Eighth Avenue and West 37th Street													
Westbound	T	1.04	75.8	E	T	1.15	113.8	F	+	T	1.06	79.7	E
	R	0.57	37.0	D	R	0.57	37.0	D		R	0.49	30.7	C
Northbound	L	0.42	36.7	D	L	0.42	36.7	D		L	0.42	36.7	D
	T	0.46	16.3	B	T	0.51	17.0	B		T	0.55	19.5	B
	Intersection		43.1	D	Intersection		58.7	E		Intersection		45.7	D
Eighth Avenue and West 36th Street													
Eastbound	L	0.67	39.1	D	L	0.67	39.1	D		Unmitigated			
	T	1.17	124.2	F	T	1.28	168.1	F	+				
Northbound	T	0.36	14.4	B	T	0.40	15.0	B					
	R	0.74	40.8	D	R	0.79	45.7	D					
	Intersection		66.5	E	Intersection		85.5	F					
Eighth Avenue and West 34th Street													
Eastbound	T	1.03	79.1	E	T	1.11	104.0	F	+	T	1.04	80.3	F
Westbound	-	-	-	-	-	-	-	-		-	-	-	-
	TR	1.16	123.6	F	TR	1.24	157.0	F	+	TR	1.17	124.2	F
	-	-	-	-	-	-	-	-		-	-	-	-
Northbound	L	0.65	54.2	D	L	0.65	54.2	D		L	0.65	54.2	D
	TR	0.68	24.1	C	TR	0.74	25.9	C		TR	0.78	29.0	C
	Intersection		68.4	E	Intersection		84.7	F		Intersection		70.5	E

Saturday Evening Peak Hour

Notes: L = Left Turn; T= Through; R = Right Turn; LOS = Level of Service, + Denotes significant adverse traffic impact.

¹ The Eleventh Avenue and West 22nd Street intersection is controlled by the same traffic signal as the Twelfth Avenue and Eleventh Avenue intersection and was therefore also included for detailed analysis.

Table MA-T7

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Alternative Scenario

Weekday AM Peak Hour

Intersection	Weekday AM Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Twelfth Avenue and West 42nd Street													
Eastbound	LTR	0.03	46.1	D	LTR	0.03	46.1	D		LTR	0.03	46.9	D
Westbound	L	0.26	50.1	D	L	0.26	50.1	D		L	0.27	51.1	D
	R	0.49	30.9	C	R	0.49	30.9	C		R	0.50	31.7	C
Northbound	TR	1.27	167.6	F	TR	1.28	169.5	F		TR	1.26	160.7	F
Southbound	L	0.69	60.7	E	L	0.69	60.7	E		L	0.69	60.7	E
	T	1.08	75.5	E	T	1.10	80.4	F	+	T	1.08	75.1	E
	Intersection		115.1	F	Intersection		118.0	F		Intersection		111.7	F
Twelfth Avenue and West 30th Street													
Eastbound	LTR	0.04	62.3	E	LTR	0.04	62.3	E		LTR	0.04	62.3	E
Northbound	TR	0.86	22.4	C	TR	0.94	29.2	C		TR	0.98	37.9	D
Southbound	L	1.37	260.5	F	L	1.62	367.1	F	+	L	1.33	239.9	F
	TR	0.82	21.2	C	TR	0.82	21.2	C		TR	0.86	25.1	C
	Intersection		32.7	C	Intersection		43.2	D		Intersection		43.1	D
Twelfth Avenue and West 29th Street													
Eastbound	LR	0.00	50.4	D	LR	0.00	50.4	D		Unmitigated			
Westbound	L	0.20	54.0	D	L	0.20	54.0	D					
	R	2.7	840.3	F	R	3.51	1202.0	F	+				
Northbound	T	0.65	13.8	B	T	0.66	14.1	B					
Southbound	TR	0.80	18.4	B	TR	0.80	18.4	B					
	Intersection		111.5	F	Intersection		187.0	F					
Eleventh Avenue and West 42nd Street													
Eastbound	T	0.31	20.4	C	T	0.29	20.2	C		T	0.29	20.2	C
	R	2.98	930.9	F	R	2.98	930.9	F		R	2.98	930.9	F
Westbound	L	0.94	113.6	F	L	1.00	128.3	F	+	L	0.91	100.5	F
	LT	0.36	13.0	B	LT	0.36	13.0	B		LT	0.35	12.4	B
Southbound	L	0.34	24.8	C	L	0.34	24.8	C		L	0.36	26.0	C
	T	0.78	30.2	C	T	0.79	30.5	C		T	0.82	32.2	C
	R	0.41	28.5	C	R	0.41	28.5	C		R	0.43	30.0	C
	Intersection		278.8	F	Intersection		278.7	F		Intersection		278.5	F
Eleventh Avenue and West 39th Street													
Westbound	LTR	0.35	25.4	C	LTR	0.35	25.4	C		LTR	0.36	26.3	C
Northbound	LT	0.08	11.9	B	LT	0.08	11.9	B		LT	0.08	11.3	B
Southbound	TR	1.62	303.5	F	TR	1.63	309.1	F	+	TR	1.59	292.8	F
	Intersection		267.8	F	Intersection		273.0	F		Intersection		258.8	F
Eleventh Avenue and West 38th Street													
Northbound	L	0.00	10.3	B	L	0.00	10.3	B		Unmitigated			
	TR	0.11	11.1	B	TR	0.11	11.1	B					
Southbound	L	0.55	19.2	B	L	0.55	19.2	B					
	TR	1.41	212.4	F	TR	1.43	217.4	F	+				
	Intersection		181.0	F	Intersection		185.4	F					
Eleventh Avenue and West 37th Street													
Eastbound	LR	0.00	22.8	C	LR	0.00	22.8	C		LR	0.00	23.5	C
Westbound	L	0.42	29.4	C	L	0.45	30.0	C		L	0.46	31.3	C
	R	0.15	24.8	C	R	0.15	24.8	C		R	0.15	25.6	C
Northbound	T	0.06	10.6	B	T	0.06	10.6	B		T	0.05	10.2	B
Southbound	T	1.44	223.1	F	T	1.45	227.9	F	+	T	1.42	214.1	F
	Intersection		199.3	F	Intersection		203.0	F		Intersection		190.9	F
Eleventh Avenue and West 33rd Street													
Eastbound	-	-	-	-	R	0.64	41.2	D		Unmitigated			
Westbound	L	1.23	163.0	F	L	1.03	91.1	F					
	LT	0.80	44.3	D	LT	0.86	49.4	D					
Southbound	TR	0.98	43.4	D	TR	1.05	63.7	E	+				
	Intersection		60.1	E	Intersection		62.9	E					
Eleventh Avenue and West 32nd Street Extension													
Eastbound	TR	0.00	28.0	C	-	-	-	-		Unmitigated			
Southbound	LTR	1.25	144.6	F	LT	1.27	151.5	F	+				
	Intersection		144.6	F	Intersection		151.5	F					
Eleventh Avenue and West 30th Street													
Eastbound	T	0.83	40.0	D	T	1.00	69.9	E	+	Unmitigated			
	R	0.43	23.8	C	R	0.59	28.5	C					
Southbound	LT	1.07	68.2	E	LT	1.13	89.0	F	+				
	Intersection		62.4	E	Intersection		82.2	F					
Eleventh Avenue and West 29th Street													
Westbound	L	0.68	45.0	D	L	0.68	45.0	D		L	0.68	45.0	D
	T	0.62	19.4	B	T	0.76	24.6	C		T	0.81	30.1	C
Southbound	TR	1.15	102.9	F	TR	1.26	151.2	F	+	TR	1.15	102.4	F
	Intersection		85.2	F	Intersection		121.0	F		Intersection		85.4	F
Eleventh Avenue and West 24th Street													
Eastbound	R	0.28	27.4	C	R	0.28	27.4	C		R	0.29	28.3	C
Northbound	L	0.34	27.8	C	L	0.34	27.8	C		L	0.35	28.8	C
Southbound	L	0.44	10.3	B	L	0.44	10.3	B		L	0.44	10.3	B
	TR	1.48	255.7	F	TR	1.51	268.6	F	+	TR	1.46	243.8	F
	R	0.32	27.8	C	R	0.33	28.0	C		R	0.31	26.8	C
	Intersection		157.6	F	Intersection		166.3	F		Intersection		151.8	F

Table MA-T7

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Alternative Scenario

Weekday AM Peak Hour

Intersection	Weekday AM Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Twelfth Avenue and Eleventh Avenue													
Westbound	TR	1.53	300.4	F	TR	1.56	313.1	F	+	TR	1.52	294.0	F
Northbound	T	0.89	29.4	C	T	0.91	30.9	C		T	0.92	32.4	C
Southbound	T	0.75	18.0	B	T	0.75	18.0	B		T	0.76	18.8	B
	Intersection		85.9	F	Intersection		89.9	F		Intersection		86.4	F
Eleventh Avenue and West 22nd Street ¹													
Westbound	R	0.04	11.2	B	R	0.04	11.2	B		R	0.04	11.6	B
Northbound	T	0.20	41.4	D	T	0.20	41.4	D		T	0.20	40.6	D
	Intersection		33.7	C	Intersection		33.7	C		Intersection		33.3	C
Tenth Avenue and West 35th Street													
Westbound	TR	1.29	178.5	F	TR	1.30	185.6	F	+	TR	1.26	166.7	F
Northbound	LT	0.60	20.9	C	LT	0.65	21.6	C		LT	0.66	22.6	C
	Intersection		62.5	E	Intersection		63.4	E		Intersection		59.3	E
Tenth Avenue and West 34th Street													
Eastbound	LT	1.37	216.7	F	LT	1.34	205.5	F		LT	1.24	160.1	F
Westbound	T	1.04	81.4	F	T	1.06	87.7	F	+	T	1.03	76.5	E
	R	0.49	29.7	C	R	0.49	29.7	C		R	0.47	28.2	C
Northbound	LTR	0.67	20.4	C	LTR	0.76	22.7	C		LTR	0.78	24.0	C
	Intersection		66.9	E	Intersection		64.1	E		Intersection		55.6	E
Tenth Avenue and West 33rd Street													
Westbound	TR	1.23	148.7	F	TR	1.27	166.9	F	+	TR	1.23	148.0	F
Northbound	LT	0.84	25.9	C	LT	0.84	26.0	C		LT	0.87	27.9	C
	Intersection		62.1	E	Intersection		67.1	E		Intersection		63.0	E
Tenth Avenue and West 30th Street													
Eastbound	L	0.62	34.8	C	L	1.15	132.4	F	+	Unmitigated			
	T	2.00	490.8	F	T	2.03	504.7	F	+				
Northbound	T	0.76	26.4	C	T	0.75	26.0	C					
	R	2.17	564.7	F	R	2.14	552.7	F					
	Intersection		268.1	F	Intersection		272.8	F					
Tenth Avenue and West 29th Street													
Westbound	T	0.98	65.8	E	T	1.16	122.2	F	+	Unmitigated			
	R	1.24	156.8	F	R	1.25	160.4	F					
Northbound	LT	0.61	19.1	B	LT	0.60	19.0	B					
	Intersection		56.3	E	Intersection		71.4	E					
Tenth Avenue and West 23rd Street													
Eastbound	LT	0.43	21.2	C	LT	0.43	21.2	C		LT	0.41	20.3	C
Westbound	TR	1.08	100.7	F	TR	1.09	105.9	F	+	TR	1.05	89.8	F
Northbound	LTR	0.78	27.1	C	LTR	0.77	26.6	C		LTR	0.79	28.1	C
	Intersection		41.6	D	Intersection		42.8	D		Intersection		40.0	D
Ninth Avenue and West 42nd Street													
Eastbound	T	1.13	116.2	F	T	1.14	120.5	F	+	T	1.10	103.5	F
	R	0.26	28.5	C	R	0.26	28.5	C		R	0.25	27.4	C
Westbound	L	1.13	149.5	F	L	1.13	149.5	F		L	1.13	149.5	F
	T	0.19	14.7	B	T	0.20	14.8	B		T	0.20	14.2	B
Southbound	L	0.68	57.6	E	L	0.68	57.6	E		L	0.68	57.6	E
	TR	0.79	26.6	C	TR	0.79	26.9	C		TR	0.82	28.5	C
	Intersection		56.9	E	Intersection		57.9	E		Intersection		55.0	D
Ninth Avenue and West 29th Street													
Westbound	L	0.25	21.4	C	L	0.25	21.4	C		Unmitigated			
	T	1.34	195.6	F	T	1.47	252.1	F	+				
Southbound	TR	1.11	83.0	F	TR	1.12	89.2	F	+				
	Intersection		111.1	F	Intersection		133.5	F					
Eighth Avenue and West 36th Street													
Eastbound	L	0.64	40.3	D	L	0.64	40.3	D		Unmitigated			
	T	1.23	150.7	F	T	1.26	160.6	F	+				
Northbound	T	0.35	13.2	B	T	0.36	13.3	B					
	R	1.10	127.6	F	R	1.09	123.5	F					
	Intersection		87.8	F	Intersection		91.5	F					
Eighth Avenue and West 30th Street													
Eastbound	L	0.72	39.0	D	L	0.74	40.7	D		L	0.71	37.7	D
	T	1.10	93.5	F	T	1.14	107.0	F	+	T	1.11	96.0	F
Northbound	TR	0.44	17.9	B	TR	0.44	17.9	B		TR	0.45	18.7	B
	Intersection		47.1	D	Intersection		52.7	D		Intersection		48.7	D
Eighth Avenue and West 29th Street													
Westbound	TR	1.07	88.0	F	TR	1.17	121.0	F	+	Unmitigated			
Northbound	L	1.07	102.4	F	L	1.12	117.5	F	+				
	T	0.28	13.9	B	T	0.28	13.9	B					
	Intersection		56.8	E	Intersection		73.0	E					
Seventh Avenue and West 29th Street													
Westbound	L	0.42	25.5	C	L	0.42	25.5	C		L	0.38	22.3	C
	T	0.98	65.7	E	T	1.10	99.6	F	+	T	1.00	67.5	E
Southbound	-	-	-	-	-	-	-	-		-			
	TR	0.71	22.6	C	TR	0.72	22.7	C		TR	0.78	26.5	C
	-	-	-	-	-	-	-	-		-			
	Intersection		34.5	C	Intersection		45.3	D		Intersection		38.1	D

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Alternative Scenario
Weekday AM Peak Hour

Notes: L = Left Turn; T = Through; R = Right Turn; LOS = Level of Service, + Denotes significant adverse traffic impact.

¹ The Eleventh Avenue and West 22nd Street intersection is controlled by the same traffic signal as the Twelfth Avenue and Eleventh Avenue intersection and was therefore also included for detailed analysis.

Table MA-T8

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Alternative Scenario

Weekday Midday Peak Hour

Intersection	Weekday Midday Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Twelfth Avenue and West 30th Street													
Eastbound	LTR	0.00	46.8	D	LTR	0.00	46.8	D		LTR	0.00	46.8	D
Northbound	TR	0.80	20.8	C	TR	0.86	23.3	C		TR	0.90	27.4	C
Southbound	L	0.96	104.2	F	L	1.12	151.2	F	+	L	0.96	97.5	F
	TR	0.63	16.7	B	TR	0.63	16.7	B		TR	0.66	18.9	B
	Intersection		23.1	C	Intersection		27.5	C		Intersection		27.9	C
Twelfth Avenue and West 29th Street													
Eastbound	LR	0.00	39.2	D	LR	0.00	39.2	D		Unmitigated			
Westbound	L	0.18	42.0	D	L	0.18	42.0	D					
	R	1.68	370.4	F	R	2.14	574.3	F	+				
Northbound	T	0.63	14.9	B	T	0.64	15.1	B					
Southbound	TR	0.61	14.7	B	TR	0.61	14.7	B					
	Intersection		53.0	D	Intersection		88.5	F					
Eleventh Avenue and West 42nd Street													
Eastbound	T	0.26	19.7	B	T	0.23	19.4	B		T	0.23	19.4	B
	R	2.66	789.9	F	R	2.66	789.9	F		R	2.66	789.9	F
Westbound	L	1.12	156.2	F	L	1.17	172.4	F	+	L	1.05	130.0	F
	LT	0.56	16.6	B	LT	0.56	16.6	B		LT	0.55	15.8	B
Southbound	L	0.2	22.0	C	L	0.2	22.0	C		L	0.21	22.9	C
	T	0.77	29.6	C	T	0.78	29.8	C		T	0.81	31.3	C
	R	0.30	25.0	C	R	0.30	25.0	C		R	0.32	26.3	C
	Intersection		211.6	F	Intersection		212.6	F		Intersection		211.2	F
Eleventh Avenue and West 39th Street													
Westbound	LTR	0.44	27.6	C	LTR	0.44	27.6	C		LTR	0.46	28.6	C
Northbound	LT	0.29	14.9	B	LT	0.29	14.9	B		LT	0.28	14.3	B
Southbound	TR	1.19	117.6	F	TR	1.20	122.1	F	+	TR	1.18	109.9	F
	Intersection		91.9	F	Intersection		95.3	F		Intersection		86.4	F
Eleventh Avenue and West 34th Street													
Eastbound	L	1.26	184.5	F	L	1.08	123.8	F		Unmitigated			
	T	0.36	27.5	C	T	0.33	27.0	C					
	R	0.86	63.9	E	R	0.73	48.8	D					
Westbound	L	0.69	33.4	C	L	0.70	34.1	C					
	TR	0.90	55.7	E	TR	1.01	80.1	F	+				
Southbound	LTR	1.00	47.9	D	LTR	1.02	51.8	D					
	Intersection		57.8	E	Intersection		57.8	E					
Eleventh Avenue and West 32nd Street Extension													
Eastbound	TR	0.00	28.0	C	-	-	-	-		Unmitigated			
Southbound	LTR	1.03	57.5	E	LT	1.09	76.2	E	+				
	Intersection		57.5	E	Intersection		76.2	E					
Eleventh Avenue and West 24th Street													
Eastbound	R	0.24	26.8	C	R	0.24	26.8	C		R	0.25	27.7	C
Northbound	L	0.25	26.8	C	L	0.25	26.8	C		L	0.26	27.7	C
Southbound	L	0.31	8.7	A	L	0.31	8.7	A		L	0.31	8.7	A
	TR	1.24	149.5	F	TR	1.28	166.3	F	+	TR	1.23	146.0	F
	R	0.25	26.5	C	R	0.32	29.4	C		R	0.31	28.0	C
	Intersection		99.6	F	Intersection		111.1	F		Intersection		98.6	F
Twelfth Avenue and Eleventh Avenue													
Westbound	TR	1.39	226.3	F	TR	1.43	244.0	F	+	TR	1.39	224.8	F
Northbound	T	0.83	26.6	C	T	0.85	27.4	C		T	0.86	28.8	C
Southbound	T	0.62	16.0	B	T	0.62	16.0	B		T	0.63	16.7	B
	Intersection		71.2	E	Intersection		76.6	E		Intersection		72.7	E
Eleventh Avenue and West 22nd Street ¹													
Westbound	R	0.05	13.1	B	R	0.05	13.1	B		R	0.06	13.6	B
Northbound	T	0.09	26.5	C	T	0.09	26.5	C		T	0.09	25.8	C
	Intersection		20.9	C	Intersection		20.9	C		Intersection		20.7	C
Tenth Avenue and West 30th Street													
Eastbound	L	0.67	38.1	D	L	1.08	105.6	F	+	Unmitigated			
	T	1.39	220.7	F	T	1.48	258.0	F	+				
Northbound	T	0.88	31.7	C	T	0.88	31.4	C					
	R	3.03	953.2	F	R	3.17	1017.0	F	+				
	Intersection		257.1	F	Intersection		275.8	F					
Tenth Avenue and West 29th Street													
Westbound	T	0.73	34.8	C	T	0.82	40.8	D		T	0.77	35.4	D
	R	1.10	108.6	F	R	1.20	144.5	F	+	R	1.10	106.3	F
Northbound	LT	0.74	21.7	C	LT	0.74	21.8	C		LT	0.78	24.1	C
	Intersection		36.6	D	Intersection		43.2	D		Intersection		38.2	D
Tenth Avenue and West 23rd Street													
Eastbound	LT	0.30	19.3	B	LT	0.30	19.3	B		LT	0.29	18.5	B
Westbound	TR	1.09	108.0	F	TR	1.11	115.0	F	+	TR	1.07	97.4	F
Northbound	LTR	0.93	36.3	D	LTR	0.92	35.5	D		LTR	0.95	39.5	D
	Intersection		47.3	D	Intersection		48.2	D		Intersection		47.6	D
Ninth Avenue and West 42nd Street													
Eastbound	T	1.13	116.4	F	T	1.14	120.6	F	+	T	1.10	103.3	F
	R	0.45	33.4	C	R	0.45	33.4	C		R	0.43	31.8	C
Westbound	L	0.97	97.5	F	L	0.97	97.5	F		L	0.97	97.5	F
	T	0.32	16.3	B	T	0.33	16.4	B		T	0.33	15.7	B
Southbound	L	0.65	54.9	D	L	0.65	54.9	D		L	0.65	54.9	D
	TR	0.89	32.3	C	TR	0.90	32.7	C		TR	0.92	35.8	D
	Intersection		53.3	D	Intersection		54.4	D		Intersection		52.5	D

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Alternative Scenario
Weekday Midday Peak Hour

Notes: L = Left Turn; T = Through; R = Right Turn; LOS = Level of Service, + Denotes significant adverse traffic impact.

¹ The Eleventh Avenue and West 22nd Street intersection is controlled by the same traffic signal as the Twelfth Avenue and Eleventh Avenue intersection and was therefore also included for detailed analysis.

Table MA-T9

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Alternative Scenario

Weekday PM Peak Hour

Intersection	Weekday PM Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Twelfth Avenue and West 42nd Street													
Eastbound	LTR	0.08	47.2	D	LTR	0.08	47.2	D		LTR	0.08	48.0	D
Westbound	L	0.31	51.2	D	L	0.31	51.2	D		L	0.32	52.3	D
	R	0.52	40.6	D	R	0.52	40.6	D		R	0.53	41.6	D
Northbound	TR	1.20	127.4	F	TR	1.22	134.6	F	+	TR	1.20	127.7	F
Southbound	L	1.18	169.3	F	L	1.18	169.3	F		L	1.18	169.3	F
	T	1.06	65.2	E	T	1.08	71.7	E	+	T	1.07	66.8	E
	Intersection		101.8	F	Intersection		107.9	F		Intersection		102.6	F
Twelfth Avenue and West 30th Street													
Eastbound	LTR	0	61.7	E	LTR	0.00	61.7	E		LTR	0.00	61.7	E
Northbound	TR	1.00	39.7	D	TR	1.06	57.4	E	+	TR	1.05	53.1	D
Southbound	L	1.26	218.3	F	L	1.34	249.5	F	+	L	1.27	221.0	F
	TR	0.84	22.2	C	TR	0.84	22.2	C		TR	0.84	21.2	C
	Intersection		39.5	D	Intersection		51.4	D		Intersection		47.4	D
Twelfth Avenue and West 29th Street													
Eastbound	LR	0.00	50.4	D	LR	0.00	50.4	D		Unmitigated			
Westbound	L	0.14	52.9	D	L	0.14	52.9	D					
	R	2.38	693.2	F	R	2.89	923.0	F	+				
Northbound	T	0.80	17.7	B	T	0.82	18.3	B					
Southbound	TR	0.83	19.2	B	TR	0.83	19.2	B					
	Intersection		84.1	F	Intersection		122.5	F					
Eleventh Avenue and West 42nd Street													
Eastbound	T	0.25	20.9	C	T	0.24	20.8	C		T	0.24	20.8	C
	R	2.31	631.9	F	R	2.31	631.9	F		R	2.31	631.9	F
Westbound	L	1.46	272.5	F	L	1.54	306.4	F	+	L	1.43	255.8	F
	LT	0.33	11.6	B	LT	0.33	11.6	B		LT	0.33	11.1	B
Southbound	L	0.03	21.1	C	L	0.03	21.1	C		L	0.03	21.8	C
	T	0.59	27.0	C	T	0.64	27.9	C		T	0.67	29.0	C
	R	0.29	26.9	C	R	0.29	26.9	C		R	0.30	28.2	C
	Intersection		223.0	F	Intersection		220.9	F		Intersection		215.6	F
Eleventh Avenue and West 39th Street													
Westbound	LTR	0.35	25.3	C	LTR	0.35	25.3	C		LTR	0.38	27.2	C
Northbound	LT	0.18	12.6	B	LT	0.18	12.6	B		LT	0.17	11.5	B
Southbound	TR	1.39	201.9	F	TR	1.46	233.9	F	+	TR	1.40	205.2	F
	Intersection		166.6	F	Intersection		194.1	F		Intersection		170.8	F
Eleventh Avenue and West 38th Street													
Northbound	L	0.00	10.3	B	L	0.00	10.3	B		Unmitigated			
	TR	0.21	11.9	B	TR	0.21	11.9	B					
Southbound	L	0.50	17.7	B	L	0.50	17.7	B					
	TR	1.21	123.2	F	TR	1.28	152.7	F	+				
	Intersection		100.9	F	Intersection		125.6	F					
Eleventh Avenue and West 37th Street													
Eastbound	LR	0.00	22.8	C	LR	0.00	22.8	C		LR	0.00	22.8	C
Westbound	L	0.33	27.4	C	L	0.43	29.5	C		L	0.47	32.1	C
	R	0.21	25.9	C	R	0.21	25.9	C		R	0.23	27.8	C
Northbound	T	0.10	10.9	B	T	0.10	10.9	B		T	0.09	9.9	A
Southbound	T	1.40	204.5	F	T	1.47	234.5	F	+	T	1.41	206.8	F
	Intersection		175.7	F	Intersection		199.8	F		Intersection		176.7	F
Eleventh Avenue and West 36th Street													
Northbound	TR	0.24	12.7	B	TR	0.22	12.5	B		Unmitigated			
Southbound	LT	1.32	171.6	F	LT	1.39	200.4	F	+				
	Intersection		150.1	F	Intersection		178.3	F					
Eleventh Avenue and West 34th Street													
Eastbound	L	0.93	67.4	E	L	0.94	74.9	E	+	Unmitigated			
	T	0.56	31.8	C	T	0.50	30.3	C					
	R	1.01	96.4	F	R	1.55	299.4	F	+				
Westbound	L	0.87	56.2	E	L	0.96	74.0	E	+				
	TR	0.82	47.0	D	TR	0.95	66.2	E	+				
Southbound	LTR	1.12	86.4	F	LTR	1.23	132.3	F	+				
	Intersection		75.1	E	Intersection		126.5	F					
Eleventh Avenue and West 33rd Street													
Eastbound	-	-	-	-	R	1.65	338.7	F	+	Unmitigated			
Westbound	L	0.85	57.0	E	L	0.91	66.8	E	+				
	LT	0.59	35.9	D	LT	0.92	54.9	D					
Southbound	TR	0.92	34.6	C	TR	1.31	171.7	F	+				
	Intersection		37.2	D	Intersection		170.5	F					
Eleventh Avenue and West 32nd Street Extension													
Eastbound	TR	0.00	28.0	C	-	-	-	-		Unmitigated			
Southbound	LTR	1.05	63.6	E	LT	1.24	139.3	F	+				
	Intersection		63.5	E	Intersection		139.3	F					
Eleventh Avenue and West 31st Street Extension													
Eastbound	TR	0.61	29.4	C	-	-	-	-		Unmitigated			
Southbound	LTR	1.07	67.7	E	LT	1.17	107.9	F	+				
	Intersection		64.1	E	Intersection		107.9	F					
Eleventh Avenue and West 30th Street													
Eastbound	T	0.68	29.7	C	T	1.04	78.6	E	+	Unmitigated			
	R	0.48	25.5	C	R	0.68	33.4	C					
Southbound	LT	1.09	74.4	E	LT	1.36	191.9	F	+				
	Intersection		65.7	E	Intersection		163.1	F					

Table MA-T9

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Alternative Scenario

Weekday PM Peak Hour

Intersection	Weekday PM Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Eleventh Avenue and West 29th Street													
Westbound	L	0.79	53.0	D	L	0.79	53.0	D		L	0.79	53.0	D
	T	0.63	19.7	B	T	0.75	24.3	C		T	0.79	27.6	C
Southbound	TR	0.94	38.6	D	TR	1.07	71.6	E	+	TR	1.00	49.6	D
	Intersection		36.4	D	Intersection		60.2	E		Intersection		45.3	D
Eleventh Avenue and West 24th Street													
Eastbound	R	0.22	26.6	C	R	0.22	26.6	C		R	0.24	28.4	C
Northbound	L	0.42	28.9	C	L	0.42	28.9	C		L	0.46	31.0	C
Southbound	L	0.38	9.5	A	L	0.38	9.5	A		L	0.38	9.5	A
	TR	1.12	101.0	F	TR	1.20	132.6	F	+	TR	1.12	97.4	F
	R	0.41	30.9	C	R	0.42	31.4	C		R	0.38	28.5	C
	Intersection		63.2	E	Intersection		81.8	F		Intersection		62.9	E
Twelfth Avenue and Eleventh Avenue													
Westbound	TR	1.70	382.1	F	TR	1.80	422.4	F	+	TR	1.69	375.6	F
Northbound	T	0.94	33.5	C	T	0.97	37.4	D		T	0.99	43.0	D
Southbound	T	0.66	15.0	B	T	0.66	15.0	B		T	0.67	16.3	B
	Intersection		96.9	F	Intersection		109.2	F		Intersection		102.5	F
Eleventh Avenue and West 22nd Street ¹													
Westbound	R	0.09	11.3	B	R	0.09	11.3	B		R	0.09	12.1	B
Northbound	T	0.21	42.3	D	T	0.21	42.3	D		T	0.20	40.7	D
	Intersection		30.3	C	Intersection		30.3	C		Intersection		29.6	C
Tenth Avenue and West 36th Street													
Eastbound	LT	0.74	31.4	C	LT	0.71	30.3	C		LT	0.79	36.1	D
Northbound	TR	1.02	48.7	D	TR	1.11	81.1	F	+	TR	1.03	49.9	D
	Intersection		44.8	D	Intersection		70.6	E		Intersection		47.0	D
Tenth Avenue and West 33rd Street													
Westbound	TR	0.95	58.2	E	TR	1.17	123.4	F	+	Unmitigated			
Northbound	LT	0.97	37.8	D	LT	1.17	106.5	F	+				
	Intersection		41.6	D	Intersection		109.9	F					
Tenth Avenue and West 30th Street													
Eastbound	L	0.53	31.0	C	L	1.34	205.6	F	+	Unmitigated			
	T	1.93	455.8	F	T	2.35	646.9	F	+				
Northbound	T	0.98	44.0	D	T	1.05	64.8	E	+				
	R	1.24	177.3	F	R	1.24	177.3	F					
	Intersection		172.4	F	Intersection		251.4	F					
Tenth Avenue and West 29th Street													
Westbound	T	0.99	67.9	E	T	1.15	118.8	F	+	T	1.02	70.6	E
	R	1.07	94.9	F	R	1.22	151.6	F	+	R	1.04	83.1	F
Northbound	LT	0.83	24.3	C	LT	0.87	26.0	C		LT	0.96	37.1	D
	Intersection		41.5	D	Intersection		60.5	E		Intersection		49.7	D
Tenth Avenue and West 23rd Street													
Eastbound	LT	0.34	19.9	B	LT	0.37	20.2	C		Unmitigated			
Westbound	TR	1.10	108.2	F	TR	1.20	146.0	F	+				
Northbound	LTR	1.25	144.9	F	LTR	1.29	160.4	F	+				
	Intersection		125.8	F	Intersection		143.0	F					
Ninth Avenue and West 42nd Street													
Eastbound	T	0.98	69.5	E	T	1.01	77.2	E	+	Unmitigated			
	R	0.41	32.8	C	R	0.41	32.8	C					
Westbound	L	0.98	101.5	F	L	0.98	101.5	F					
	T	0.36	16.8	B	T	0.38	17.1	B					
Southbound	L	0.78	67.0	E	L	0.78	67.0	E					
	TR	1.00	49.0	D	TR	1.03	57.1	E	+				
	Intersection		53.1	D	Intersection		59.1	E					
Ninth Avenue and West 35th Street													
Westbound	LT	0.92	59.9	E	LT	1.08	99.4	F	+	LT	0.94	59.5	E
Southbound	TR	0.52	13.4	B	TR	0.55	13.8	B		TR	0.59	16.8	B
	Intersection		23.9	C	Intersection		35.1	D		Intersection		27.5	C
Ninth Avenue and West 34th Street													
Eastbound	T	0.85	43.0	D	T	0.89	48.4	D		T	0.87	43.9	D
	R	0.96	74.5	E	R	0.99	83.8	F	+	R	0.95	71.3	E
Westbound	T	1.03	70.1	E	T	1.07	83.5	F	+	T	1.05	74.0	E
Southbound	L	0.68	52.7	D	L	0.68	52.7	D		L	0.68	52.7	D
	TR	0.59	19.2	B	TR	0.63	19.9	B		TR	0.65	20.8	C
	Intersection		43.9	D	Intersection		49.0	D		Intersection		45.0	D
Ninth Avenue and West 33rd Street													
Westbound	LT	0.94	64.7	E	LT	1.02	81.7	F	+	LT	0.95	63.3	E
Southbound	TR	0.74	21.0	C	TR	0.80	23.3	C		TR	0.84	26.6	C
	Intersection		31.2	C	Intersection		37.3	D		Intersection		35.4	D
Ninth Avenue and West 30th Street													
Eastbound	T	0.89	45.6	D	T	1.06	81.1	F	+	T	0.95	49.7	D
	R	0.99	70.4	E	R	1.04	85.0	F	+	R	0.91	51.2	D
Southbound	LTR	0.72	23.2	C	LTR	0.73	23.4	C		LTR	0.79	27.3	C
	Intersection		39.3	D	Intersection		54.4	D		Intersection		39.3	D
Ninth Avenue and West 29th Street													
Westbound	L	0.28	21.8	C	L	0.28	21.8	C		Unmitigated			
	T	1.27	165.1	F	T	1.46	246.2	F	+				
Southbound	TR	0.84	27.9	C	TR	0.87	29.5	C					
	Intersection		68.5	E	Intersection		99.1	F					

Table MA-T9

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Alternative Scenario
Weekday PM Peak Hour

Intersection	Weekday PM Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Eighth Avenue and West 42nd Street													
Eastbound	L	0.89	63.4	E	L	0.89	63.4	E		Unmitigated			
	T	0.32	12.3	B	T	0.34	12.5	B					
Westbound	T	1.06	94.7	F	T	1.09	106.0	F	+				
	-	-	-	-	-	-	-	-					
	R	0.15	26.8	C	R	0.15	26.8	C					
Northbound	T	0.66	27.4	C	T	0.68	28.0	C					
	R	1.11	171.3	F	R	1.11	171.3	F					
	Intersection		49.8	D	Intersection		52.1	D					
Eighth Avenue and West 36th Street													
Eastbound	L	0.42	31.2	C	L	0.42	31.2	C		Unmitigated			
	T	1.09	94.9	F	T	1.15	116.9	F	+				
Northbound	T	0.45	14.4	B	T	0.47	14.7	B					
	R	1.31	211.9	F	R	1.40	249.1	F	+				
	Intersection		67.1	E	Intersection		80.3	F					
Eighth Avenue and West 34th Street													
Eastbound	T	0.96	58.5	E	T	1.00	67.5	E	+	T	0.94	52.5	D
Westbound	T	1.15	115.7	F	T	1.20	138.7	F	+	T	1.13	108.3	F
	-	-	-	-	-	-	-	-		-	-	-	-
	R	0.41	27.2	C	R	0.41	27.2	C		R	0.38	24.8	C
Northbound	L	0.67	55.7	E	L	0.67	55.7	E		L	0.67	55.7	E
	TR	0.74	25.6	C	TR	0.77	26.7	C		TR	0.81	30.0	C
	Intersection		60.4	E	Intersection		69.6	E		Intersection		58.6	E
Eighth Avenue and West 33rd Street													
Westbound	TR	0.13	18.1	B	TR	0.13	18.1	B		TR	0.13	19.5	B
Northbound	L	1.12	131.1	F	L	1.25	178.9	F	+	L	1.10	120.7	F
	TR	0.47	19.7	B	TR	0.49	19.9	B		TR	0.47	18.4	B
	Intersection		45.8	D	Intersection		59.3	E		Intersection		43.8	D
Eighth Avenue and West 30th Street													
Eastbound	L	0.97	70.6	E	L	1.09	103.7	F	+	Unmitigated			
	T	1.02	67.0	E	T	1.18	121.3	F	+				
Northbound	TR	0.50	18.7	B	TR	0.51	18.9	B					
	Intersection		42.0	D	Intersection		66.6	E					
Eighth Avenue and West 29th Street													
Westbound	TR	1.38	210.1	F	TR	1.54	278.8	F	+	Unmitigated			
Northbound	L	0.97	80.9	F	L	1.00	89.4	F	+				
	T	0.32	14.2	B	T	0.33	14.3	B					
	Intersection		101.4	F	Intersection		135.0	F					
Eighth Avenue and West 23rd Street													
Eastbound	T	0.93	59.7	E	T	0.97	67.6	E	+	T	0.93	59.4	E
Westbound	T	0.56	30.5	C	T	0.64	32.8	C		T	0.62	31.3	C
	-	-	-	-	-	-	-	-		-	-	-	-
	R	0.59	34.4	C	R	0.59	34.4	C		R	0.57	32.6	C
Northbound	L	0.25	35.6	D	L	0.25	35.6	D		L	0.25	35.6	D
	TR	0.53	18.1	B	TR	0.55	18.4	B		TR	0.57	19.2	B
	Intersection		30.2	C	Intersection		32.2	C		Intersection		30.7	C
Seventh Avenue and West 30th Street													
Eastbound	T	0.87	44.6	D	T	0.97	59.7	E	+	Unmitigated			
	R	0.72	38.9	D	R	0.83	48.4	D					
Southbound	L	0.91	72.6	E	L	0.91	72.6	E					
	T	0.55	18.9	B	T	0.55	18.9	B					
	Intersection		31.8	C	Intersection		37.4	D					
Seventh Avenue and West 29th Street													
Westbound	L	0.51	28.3	C	L	0.51	28.3	C		Unmitigated			
	T	1.13	112.2	F	T	1.31	184.4	F	+				
Southbound	T	0.63	20.3	C	T	0.64	20.6	C					
	-	-	-	-	-	-	-	-					
	R	1.14	141.1	F	R	1.14	141.1	F					
	Intersection		55.3	E	Intersection		78.6	E					
Seventh Avenue and West 28th Street													
Eastbound	TR	0.85	49.1	D	TR	0.90	56.3	E	+	TR	0.87	50.5	D
Southbound	L	0.45	19.1	B	L	0.45	19.1	B		L	0.46	20.3	C
	T	0.57	16.3	B	T	0.58	16.5	B		T	0.60	17.3	B
	Intersection		23.1	C	Intersection		25.0	C		Intersection		24.5	C
Sixth Avenue and West 29th Street													
Westbound	T	1.41	229.3	F	T	1.58	302.2	F	+	Unmitigated			
	R	0.52	33.4	C	R	0.52	33.4	C					
Northbound	L	1.15	138.6	F	L	1.30	193.7	F	+				
	T	0.54	16.1	B	T	0.54	16.1	B					
	Intersection		78.3	E	Intersection		106.9	F					
Sixth Avenue and West 28th Street													
Eastbound	LT	1.02	82.1	F	LT	1.08	98.1	F	+	LT	1.04	84.9	F
Northbound	TR	0.67	18.4	B	TR	0.68	18.6	B		TR	0.70	19.5	B
	Intersection		30.7	C	Intersection		34.5	C		Intersection		32.6	C
Unsignalized Intersections													
Lincoln Tunnel and West 33rd Street													
Southbound	R	0.61	74.7	F	R	1.11	200.7	F	+	Unmitigated			
Notes: L = Left Turn; T = Through; R = Right Turn; LOS = Level of Service, + Denotes significant adverse traffic impact.													
1 The Eleventh Avenue and West 22nd Street intersection is controlled by the same traffic signal as the Twelfth Avenue and Eleventh Avenue intersection and was therefore also included for detailed analysis.													

Table MA-T10

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Alternative Scenario

Weekday Evening Peak Hour

Intersection	Weekday Evening Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Twelfth Avenue and West 42nd Street													
Eastbound	LTR	0.06	46.8	D	LTR	0.06	46.8	D		LTR	0.06	47.6	D
Westbound	L	0.23	49.2	D	L	0.23	49.2	D		L	0.24	50.2	D
	R	0.54	41.1	D	R	0.54	41.1	D		R	0.55	42.2	D
Northbound	TR	1.11	88.1	F	TR	1.12	92.2	F	+	TR	1.10	86.7	F
Southbound	L	0.80	80.2	F	L	0.80	80.2	F		L	0.80	80.2	F
	T	0.69	20.4	C	T	0.69	20.5	C		T	0.69	19.8	B
	Intersection		63.7	E	Intersection		66.2	E		Intersection		62.8	E
Twelfth Avenue and West 30th Street													
Eastbound	LTR	0.00	61.7	E	LTR	0.00	61.7	E		LTR	0.00	61.7	E
Northbound	TR	0.92	26.9	C	TR	0.95	29.4	C		TR	0.97	33.4	C
Southbound	L	0.95	118.0	F	L	1.03	138.3	F	+	L	0.93	109.8	F
	TR	0.56	14.0	B	TR	0.56	14.0	B		TR	0.57	15.2	B
	Intersection		25.9	C	Intersection		28.5	C		Intersection		30.5	C
Twelfth Avenue and West 29th Street													
Eastbound	LR	0.00	50.4	D	LR	0.00	50.4	D		LR	0.00	47.2	D
Westbound	L	0.14	53.0	D	L	0.14	53.0	D		L	0.12	49.4	D
	R	1.56	333.1	F	R	1.77	424.2	F	+	R	1.54	320.4	F
Northbound	T	0.78	16.8	B	T	0.78	16.9	B		T	0.81	20.1	C
Southbound	TR	0.55	12.1	B	TR	0.55	12.1	B		TR	0.57	14.2	B
	Intersection		40.8	D	Intersection		52.0	D		Intersection		45.2	D
Eleventh Avenue and West 42nd Street													
Eastbound	T	0.40	23.2	C	T	0.40	23.2	C		T	0.40	23.2	C
	R	1.73	375.9	F	R	1.73	375.9	F		R	1.73	375.9	F
Westbound	L	0.72	57.4	E	L	0.77	62.4	E	+	L	0.71	55.1	E
	LT	0.34	11.7	B	LT	0.34	11.7	B		LT	0.33	11.1	B
Southbound	L	0.2	23.3	C	L	0.2	23.3	C		L	0.21	24.2	C
	T	0.85	33.6	C	T	0.85	33.6	C		T	0.88	36.0	D
	R	0.38	28.2	C	R	0.38	28.2	C		R	0.41	30.0	C
	Intersection		85.6	F	Intersection		85.8	F		Intersection		86.7	F
Eleventh Avenue and West 33rd Street													
Eastbound	-	-	-	-	R	1.11	116.7	F	+	Unmitigated			
Westbound	L	0.78	50.7	D	L	0.70	44.5	D					
	LT	0.52	34.5	C	LT	0.59	36.1	D					
Southbound	TR	0.72	25.9	C	TR	0.78	27.6	C					
	Intersection		30.1	C	Intersection		43.2	D					
Eleventh Avenue and West 24th Street													
Eastbound	R	0.15	25.8	C	R	0.15	25.8	C		R	0.17	27.5	C
Northbound	L	0.31	27.5	C	L	0.31	27.5	C		L	0.34	29.3	C
Southbound	L	0.27	8.3	A	L	0.27	8.3	A		L	0.27	8.3	A
	TR	1.08	86.8	F	TR	1.14	109.5	F	+	TR	1.07	78.2	E
	R	0.43	29.8	C	R	0.45	30.5	C		R	0.40	27.5	C
	Intersection		59.0	E	Intersection		73.4	E		Intersection		55.0	D
Twelfth Avenue and Eleventh Avenue													
Westbound	TR	1.41	253.5	F	TR	1.47	278.0	F	+	TR	1.39	240.0	F
Northbound	T	0.90	29.4	C	T	0.91	29.9	C		T	0.93	33.0	C
Southbound	T	0.50	12.3	B	T	0.50	12.3	B		T	0.51	13.3	B
	Intersection		68.8	E	Intersection		75.3	E		Intersection		69.4	E
Eleventh Avenue and West 22nd Street ¹													
Westbound	R	0.05	10.9	B	R	0.05	10.9	B		R	0.05	11.7	B
Northbound	T	0.18	41.7	D	T	0.18	41.7	D		T	0.17	40.1	D
	Intersection		32.7	C	Intersection		32.7	C		Intersection		31.8	C
Tenth Avenue and West 30th Street													
Eastbound	L	0.61	32.9	C	L	1.08	100.8	F	+	Unmitigated			
	T	1.09	100.5	F	T	1.37	211.2	F	+				
Northbound	T	0.80	27.4	C	T	0.82	28.2	C					
	R	1.87	427.5	F	R	1.85	419.4	F					
	Intersection		129.2	F	Intersection		151.1	F					
Tenth Avenue and West 23rd Street													
Eastbound	LT	0.28	19.0	B	LT	0.30	19.3	B		Unmitigated			
Westbound	TR	1.10	109.4	F	TR	1.13	123.0	F	+				
Northbound	LTR	1.04	58.8	E	LTR	1.04	59.0	E					
	Intersection		62.8	E	Intersection		65.2	E					
Ninth Avenue and West 35th Street													
Westbound	LT	0.98	70.3	E	LT	1.02	80.7	F	+	LT	0.99	70.4	E
Southbound	TR	0.48	12.9	B	TR	0.49	13.0	B		TR	0.50	13.7	B
	Intersection		28.5	C	Intersection		31.8	C		Intersection		29.4	C
Ninth Avenue and West 29th Street													
Westbound	L	0.24	21.0	C	L	0.24	21.0	C		L	0.22	19.5	B
	T	1.01	71.0	E	T	1.08	90.4	F	+	T	1.02	70.1	E
Southbound	TR	0.84	27.5	C	TR	0.86	28.3	C		TR	0.90	33.1	C
	Intersection		38.3	D	Intersection		44.5	D		Intersection		42.2	D
Eighth Avenue and West 42nd Street													
Eastbound	L	0.77	49.3	D	L	0.77	49.3	D		L	0.81	54.4	D
	T	0.39	13.3	B	T	0.40	13.4	B		T	0.40	13.4	B
Westbound	-	-	-	-	-	-	-	-		-	-	-	-
	TR	1.13	120.8	F	TR	1.15	127.3	F	+	TR	1.11	110.3	F
	-	-	-	-	-	-	-	-		-	-	-	-
Northbound	T	0.64	27.1	C	T	0.66	27.5	C		T	0.66	27.5	C
	R	1.10	171.5	F	R	1.10	171.5	F		R	1.10	171.5	F
	Intersection		53.3	D	Intersection		54.6	D		Intersection		51.6	D

Table MA-T10

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Alternative Scenario
Weekday Evening Peak Hour

Intersection	Weekday Evening Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Eighth Avenue and West 36th Street													
Eastbound	L	0.41	29.6	C	L	0.41	29.6	C		Unmitigated			
	T	1.13	108.5	F	T	1.16	120.4	F	+				
Northbound	T	0.44	14.3	B	T	0.45	14.5	B					
	R	1.22	162.8	F	R	1.26	179.2	F	+				
	Intersection		71.1	E	Intersection		78.1	E					
Eighth Avenue and West 34th Street													
Eastbound	T	1.03	78.7	E	T	1.05	86.3	F	+	T	1.02	75.5	E
Westbound	-	-	-	-	-	-	-	-	-	-	-	-	-
	TR	1.19	135.8	F	TR	1.20	141.5	F	+	TR	1.16	126.1	F
	-	-	-	-	-	-	-	-	-	-	-	-	-
Northbound	L	0.47	44.9	D	L	0.47	44.9	D		L	0.47	44.9	D
	TR	0.70	24.3	C	TR	0.72	24.8	C		TR	0.74	26.1	C
	Intersection		67.9	E	Intersection		71.3	E		Intersection		65.2	E
Eighth Avenue and West 33rd Street													
Westbound	TR	0.08	17.7	B	TR	0.08	17.7	B		TR	0.09	18.3	B
Northbound	L	1.09	121.1	F	L	1.14	137.0	F	+	L	1.07	111.1	F
	TR	0.48	19.8	B	TR	0.49	20.0	B		TR	0.48	19.2	B
	Intersection		43.5	D	Intersection		47.7	D		Intersection		41.0	D
Eighth Avenue and West 29th Street													
Westbound	TR	1.20	133.2	F	TR	1.26	156.6	F	+	TR	1.19	127.5	F
Northbound	L	0.72	38.4	D	L	0.74	39.7	D		L	0.82	50.1	D
	T	0.32	14.3	B	T	0.33	14.3	B		T	0.34	15.6	B
	Intersection		62.1	E	Intersection		72.3	E		Intersection		63.0	E
Eighth Avenue and West 23rd Street													
Eastbound	T	0.98	69.8	E	T	1.02	79.5	E	+	T	0.98	69.2	E
Westbound	-	-	-	-	-	-	-	-	-	-	-	-	-
	TR	1.09	105.3	F	TR	1.11	112.5	F	+	TR	1.07	98.3	F
	-	-	-	-	-	-	-	-	-	-	-	-	-
Northbound	L	0.05	32.0	C	L	0.05	32.0	C		L	0.05	32.0	C
	TR	0.51	17.8	B	TR	0.52	17.9	B		TR	0.53	18.7	B
	Intersection		48.5	D	Intersection		52.6	D		Intersection		47.6	D
Seventh Avenue and West 29th Street													
Westbound	L	0.36	24.0	C	L	0.36	24.0	C		L	0.34	22.1	C
	T	1.00	68.1	E	T	1.06	87.1	F	+	T	1.00	66.9	E
Southbound	-	-	-	-	-	-	-	-	-	-	-	-	-
	TR	0.77	24.1	C	TR	0.78	24.4	C		TR	0.82	27.4	C
	-	-	-	-	-	-	-	-	-	-	-	-	-
	Intersection		35.3	D	Intersection		41.1	D		Intersection		37.5	D
Sixth Avenue and West 29th Street													
Westbound	T	1.09	101.5	F	T	1.14	117.9	F	+	T	1.10	102.2	F
	R	0.36	27.3	C	R	0.36	27.3	C		R	0.34	26.2	C
Northbound	L	0.73	34.7	C	L	0.79	40.4	D		L	0.82	45.6	D
	T	0.47	15.3	B	T	0.47	15.3	B		T	0.48	16.0	B
	Intersection		37.6	D	Intersection		42.6	D		Intersection		39.8	D
Sixth Avenue and West 28th Street													
Eastbound	LT	1.00	73.7	E	LT	1.03	82.6	F	+	LT	0.99	70.6	E
Northbound	TR	0.61	17.2	B	TR	0.61	17.3	B		TR	0.63	18.1	B
	Intersection		30.0	C	Intersection		32.3	C		Intersection		30.2	C
Sixth Avenue and West 23rd Street													
Eastbound	T	0.99	62.2	E	T	1.02	70.5	E	+	Unmitigated			
Westbound	-	-	-	-	-	-	-	-	-				
	TR	0.62	27.8	C	TR	0.64	28.7	C	-				
	-	-	-	-	-	-	-	-	-				
Northbound	L	0.34	21.2	C	L	0.34	21.2	C	-				
	T	0.44	14.9	B	T	0.44	14.9	B	-				
	R	0.94	73.1	E	R	0.94	73.1	E	-				
	Intersection		32.6	C	Intersection		34.7	C	-				
Notes: L = Left Turn; T = Through; R = Right Turn; LOS = Level of Service, + Denotes significant adverse traffic impact.													
1 The Eleventh Avenue and West 22nd Street intersection is controlled by the same traffic signal as the Twelfth Avenue and Eleventh Avenue intersection and was therefore also included for detailed analysis.													

Table MA-T11

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Alternative Scenario

Saturday Middy/Afternoon Peak Hour

Intersection	Saturday Middy/Afternoon Peak Hour												
	No Action				With Action					Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Twelfth Avenue and West 30th Street													
Eastbound	LTR	0.00	46.8	D	LTR	0.00	46.8	D		LTR	0.00	46.8	D
Northbound	TR	0.83	21.8	C	TR	0.84	22.2	C		TR	0.85	23.3	C
Southbound	L	1.22	186.5	F	L	1.26	201.1	F	+	L	1.19	173.2	F
	TR	0.79	20.8	C	TR	0.79	20.8	C		TR	0.81	21.8	C
	Intersection		29.6	C	Intersection		30.7	C		Intersection		30.3	C
Eleventh Avenue and West 42nd Street													
Eastbound	T	0.27	19.8	B	T	0.27	19.8	B		T	0.27	19.8	B
	R	1.93	461.8	F	R	1.93	461.8	F		R	1.93	461.8	F
Westbound	L	1.03	126.4	F	L	1.10	146.6	F	+	L	0.99	110.2	F
	LT	0.49	15.1	B	LT	0.49	15.1	B		LT	0.48	14.4	B
Southbound	L	0.18	21.6	C	L	0.18	21.6	C		L	0.19	22.5	C
	T	0.81	30.7	C	T	0.81	30.5	C		T	0.83	32.2	C
	R	0.44	27.8	C	R	0.44	27.8	C		R	0.46	29.4	C
	Intersection		120.9	F	Intersection		122.2	F		Intersection		121.3	F
Eleventh Avenue and West 32nd Street Extension													
Eastbound	TR	0.00	28.0	C	-	-	-	-		-	-	-	-
Southbound	LTR	1.09	75.6	E	LT	1.11	85.5	F	+	LTR	1.08	72.2	E
	Intersection		75.6	E	Intersection		85.5	F		Intersection		72.2	E
Tenth Avenue and West 30th Street													
Eastbound	L	0.58	32.7	C	L	0.86	51.7	D		Unmitigated			
	T	1.62	320.0	F	T	1.67	344.6	F	+				
Northbound	T	0.88	31.6	C	T	0.89	32.1	C					
	R	1.19	154.5	F	R	1.19	154.5	F					
	Intersection		123.0	F	Intersection		128.7	F					
Tenth Avenue and West 23rd Street													
Eastbound	LT	0.42	20.8	C	LT	0.42	20.9	C		Unmitigated			
Westbound	TR	1.14	127.6	F	TR	1.17	140.3	F	+				
Northbound	LTR	1.00	48.1	D	LTR	0.99	46.3	D					
	Intersection		55.3	E	Intersection		56.2	E					
Ninth Avenue and West 35th Street													
Westbound	LT	1.07	93.7	F	LT	1.08	99.5	F	+	LT	1.05	86.7	F
Southbound	TR	0.60	14.7	B	TR	0.61	14.8	B		TR	0.62	15.6	B
	Intersection		34.4	C	Intersection		36.0	D		Intersection		33.4	C
Ninth Avenue and West 29th Street													
Westbound	L	0.26	22.1	C	L	0.26	22.1	C		L	0.25	21.3	C
	T	1.28	171.4	F	T	1.33	190.9	F	+	T	1.29	172.5	F
Southbound	TR	0.93	35.0	D	TR	0.93	35.5	D		TR	0.96	39.9	D
	Intersection		72.7	E	Intersection		79.6	E		Intersection		77.2	E
Eighth Avenue and West 36th Street													
Eastbound	L	0.81	51.5	D	L	0.81	51.5	D		Unmitigated			
	T	1.23	146.6	F	T	1.25	153.4	F	+				
Northbound	T	0.50	16.2	B	T	0.51	16.4	B					
	R	1.15	139.6	F	R	1.14	135.7	F					
	Intersection		82.8	F	Intersection		84.7	F					
Eighth Avenue and West 33rd Street													
Westbound	TR	0.02	17.6	B	TR	0.02	17.6	B		TR	0.02	18.2	B
Northbound	L	1.10	125.0	F	L	1.13	136.6	F	+	L	1.05	109.1	F
	TR	0.52	21.6	C	TR	0.53	21.7	C		TR	0.52	20.9	C
	Intersection		44.2	D	Intersection		47.2	D		Intersection		40.4	D
Eighth Avenue and West 29th Street													
Westbound	TR	1.06	81.6	F	TR	1.10	94.6	F	+	Unmitigated			
Northbound	L	1.08	109.8	F	L	1.10	115.2	F	+				
	T	0.40	15.1	B	T	0.40	15.1	B					
	Intersection		48.4	D	Intersection		53.5	D					
Eighth Avenue and West 23rd Street													
Eastbound	T	0.99	73.3	E	T	1.00	75.8	E		T	0.96	66.5	E
Westbound	-	-	-	-	-	-	-	-		-	-	-	-
	TR	1.11	113.5	F	TR	1.12	119.5	F	+	TR	1.08	104.5	F
	-	-	-	-	-	-	-	-		-	-	-	-
Northbound	L	0.26	35.5	D	L	0.26	35.5	D		L	0.26	35.5	D
	TR	0.53	17.4	B	TR	0.53	17.5	B		TR	0.54	18.3	B
	Intersection		48.1	D	Intersection		50.0	D		Intersection		45.6	D
Seventh Avenue and West 29th Street													
Westbound	L	0.41	25.1	C	L	0.41	25.1	C		L	0.40	24.0	C
	T	0.94	55.7	E	T	0.98	65.0	E	+	T	0.95	57.2	E
Southbound	-	-	-	-	-	-	-	-		-	-	-	-
	TR	0.68	21.6	C	TR	0.69	21.8	C		TR	0.71	22.8	C
	-	-	-	-	-	-	-	-		-	-	-	-
	Intersection		31.1	C	Intersection		34.0	C		Intersection		32.4	C
Seventh Avenue and West 28th Street													
Eastbound	TR	1.01	80.2	F	TR	1.05	89.0	F	+	TR	1.01	76.7	E
Southbound	L	0.40	17.2	B	L	0.40	17.2	B		L	0.41	18.2	B
	T	0.52	15.5	B	T	0.52	15.6	B		T	0.53	16.4	B
	Intersection		32.2	C	Intersection		34.9	C		Intersection		32.2	C

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Alternative Scenario
Saturday Midday/Afternoon Peak Hour

¹ The Eleventh Avenue and West 22nd Street intersection is controlled by the same traffic signal as the Twelfth Avenue and Eleventh Avenue intersection and was therefore also included for detailed analysis.

Table MA-T12

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Alternative Scenario

Saturday Evening Peak Hour

Intersection	Saturday Evening Peak Hour												
	No Action				With Action					With Action			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Twelfth Avenue and West 42nd Street													
Eastbound	LTR	0.03	32.0	C	LTR	0.03	32.0	C		LTR	0.03	32.7	C
Westbound	L	0.21	34.2	C	L	0.21	34.2	C		L	0.22	35.1	D
	R	0.42	18.9	B	R	0.42	18.9	B		R	0.43	19.6	B
Northbound	TR	1.17	120.5	F	TR	1.19	126.7	F	+	TR	1.16	115.3	F
Southbound	L	0.68	48.8	D	L	0.68	48.8	D		L	0.68	48.8	D
	T	1.03	59.5	E	T	1.05	65.8	E	+	T	1.03	59.3	E
	Intersection		85.7	F	Intersection		91.1	F		Intersection		83.2	F
Twelfth Avenue and West 30th Street													
Eastbound	LTR	0.00	46.8	D	LTR	0.00	46.8	D		LTR	0.00	46.8	D
Northbound	TR	0.72	18.2	B	TR	0.75	19.1	B		TR	0.76	19.9	B
Southbound	L	1.15	158.7	F	L	1.18	170.6	F	+	L	1.12	146.1	F
	TR	0.72	18.6	B	TR	0.72	18.6	B		TR	0.73	19.4	B
	Intersection		25.7	C	Intersection		26.8	C		Intersection		26.3	C
Twelfth Avenue and West 29th Street													
Eastbound	LR	0.00	50.4	D	LR	0.00	50.4	D		Unmitigated			
Westbound	L	0.11	40.7	D	L	0.11	40.7	D					
	R	1.37	236.8	F	R	1.59	329.4	F	+				
Northbound	T	0.59	14.0	B	T	0.60	14.3	B					
Southbound	TR	0.71	16.8	B	TR	0.71	16.8	B					
	Intersection		35.0	C	Intersection		46.7	D					
Eleventh Avenue and West 42nd Street													
Eastbound	T	0.31	20.4	C	T	0.31	20.4	C		T	0.31	20.4	C
	R	1.72	371.1	F	R	1.72	371.1	F		R	1.72	371.1	F
Westbound	L	0.99	114.3	F	L	1.09	144.3	F	+	L	0.98	108.5	F
	LT	0.38	13.3	B	LT	0.38	13.3	B		LT	0.37	12.7	B
Southbound	L	0.11	20.6	C	L	0.11	20.6	C		L	0.11	21.3	C
	T	0.80	30.3	C	T	0.84	31.9	C		T	0.87	34.1	C
	R	0.41	26.5	C	R	0.41	26.5	C		R	0.43	28.0	C
	Intersection		86.5	F	Intersection		87.5	F		Intersection		86.9	F
Eleventh Avenue and West 34th Street													
Eastbound	L	0.27	18.0	B	L	0.28	19.3	B		Unmitigated			
	T	0.46	29.4	C	T	0.44	29.0	C					
	R	0.68	42.8	D	R	1.24	170.5	F	+				
Westbound	L	0.89	56.1	E	L	0.98	74.7	E	+				
	TR	0.62	33.6	C	TR	0.74	38.9	D					
Southbound	LTR	0.78	24.5	C	LTR	0.88	29.2	C					
	Intersection		30.6	C	Intersection		49.6	D					
Eleventh Avenue and West 33rd Street													
Eastbound	-	-	-	-	R	1.21	155.1	F	+	Unmitigated			
Westbound	L	0.83	54.9	D	L	0.91	66.3	E	+				
	LT	0.55	35.0	D	LT	0.90	52.8	D					
Southbound	TR	0.62	24.1	C	TR	1.02	53.6	D					
	Intersection		30.0	C	Intersection		68.6	E					
Eleventh Avenue and West 32nd Street Extension													
Eastbound	TR	0.00	28.0	C	-	-	-	-		-	-	-	-
Southbound	LTR	0.93	35.5	D	LT	1.07	69.7	E	+	LT	1.01	48.7	D
	Intersection		35.5	D	Intersection		69.7	E		Intersection		48.7	D
Eleventh Avenue and West 24th Street													
Eastbound	R	0.24	26.8	C	R	0.24	26.8	C		R	0.25	27.7	C
Northbound	L	0.30	27.3	C	L	0.30	27.3	C		L	0.32	28.2	C
Southbound	L	0.42	10.0	B	L	0.42	10.0	B		L	0.42	10.0	B
	TR	1.02	64.9	E	TR	1.07	80.3	F	+	TR	1.03	67.5	E
	R	0.20	25.0	C	R	0.21	25.0	C		R	0.20	24.1	C
	Intersection		42.6	D	Intersection		51.3	D		Intersection		44.7	D
Twelfth Avenue and Eleventh Avenue													
Westbound	TR	1.24	161.6	F	TR	1.28	178.4	F	+	TR	1.24	161.8	F
Northbound	T	0.78	24.3	C	T	0.80	25.0	C		T	0.81	26.1	C
Southbound	T	0.58	15.2	B	T	0.58	15.2	B		T	0.59	15.9	B
	Intersection		53.0	D	Intersection		57.7	E		Intersection		54.5	D
Eleventh Avenue and West 22nd Street ¹													
Westbound	R	0.07	13.3	B	R	0.07	13.3	B		R	0.07	13.8	B
Northbound	T	0.06	26.1	C	T	0.06	26.1	C		T	0.06	25.4	C
	Intersection		18.9	B	Intersection		18.9	B		Intersection		18.9	B
Tenth Avenue and West 33rd Street													
Westbound	TR	0.71	33.2	C	TR	0.96	59.3	E	+	TR	0.93	52.4	D
Northbound	LT	0.76	22.3	C	LT	0.90	28.6	C		LT	0.93	31.3	C
	Intersection		24.3	C	Intersection		35.0	C		Intersection		35.7	D
Tenth Avenue and West 30th Street													
Eastbound	L	0.55	30.7	C	L	1.02	83.1	F	+	Unmitigated			
	T	1.23	151.5	F	T	1.51	273.4	F	+				
Northbound	T	0.82	28.2	C	T	0.91	33.5	C					
	R	1.58	300.1	F	R	1.77	384.0	F	+				
	Intersection		109.1	F	Intersection		152.3	F					
Tenth Avenue and West 29th Street													
Westbound	T	0.55	27.9	C	T	0.62	29.9	C		T	0.57	26.0	C
	R	0.88	49.8	D	R	1.03	82.6	F	+	R	0.92	54.2	D
Northbound	LT	0.67	20.1	C	LT	0.71	20.9	C		LT	0.77	24.1	C
	Intersection		25.8	C	Intersection		32.1	C		Intersection		29.2	C

Table MA-T12

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Alternative Scenario

Saturday Evening Peak Hour

Intersection	Saturday Evening Peak Hour												
	No Action				With Action					With Action			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS		Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections													
Tenth Avenue and West 23rd Street													
Eastbound	LT	0.30	19.3	B	LT	0.33	19.6	B		Unmitigated			
Westbound	TR	1.10	108.4	F	TR	1.20	145.4	F	+				
Northbound	LTR	0.95	39.0	D	LTR	0.99	46.9	D					
	Intersection		49.6	D	Intersection		62.5	E					
Ninth Avenue and West 42nd Street													
Eastbound	T	0.95	62.8	E	T	0.97	68.5	E	+	T	0.94	59.5	E
	R	1.02	102.6	F	R	1.02	102.6	F		R	0.97	86.1	F
Westbound	L	0.64	54.6	D	L	0.64	54.6	D		L	0.64	54.6	D
	T	0.27	15.8	B	T	0.29	16.1	B		T	0.29	15.4	B
Southbound	L	0.74	62.2	E	L	0.74	62.2	E		L	0.74	62.2	E
	TR	0.78	26.2	C	TR	0.81	27.1	C		TR	0.83	28.8	C
	Intersection		42.1	D	Intersection		43.4	D		Intersection		41.3	D
Ninth Avenue and West 35th Street													
Westbound	LT	0.80	42.6	D	LT	0.90	55.1	E	+	LT	0.87	49.2	D
Southbound	TR	0.63	15.1	B	TR	0.66	15.7	B		TR	0.68	16.6	B
	Intersection		20.2	C	Intersection		23.9	C		Intersection		23.4	C
Ninth Avenue and West 30th Street													
Eastbound	T	0.49	30.0	C	T	0.60	32.2	C		T	0.57	30.9	C
	R	0.96	60.9	E	R	1.01	71.6	E	+	R	0.96	60.0	E
Southbound	LTR	0.80	28.2	C	LTR	0.80	28.3	C		LTR	0.83	30.0	C
	Intersection		36.7	D	Intersection		39.9	D		Intersection		37.7	D
Ninth Avenue and West 29th Street													
Westbound	L	0.25	21.9	C	L	0.25	21.9	C		L	0.23	19.5	B
	T	1.03	75.7	E	T	1.15	118.0	F	+	T	1.05	80.2	F
Southbound	TR	0.90	32.0	C	TR	0.91	33.5	C		TR	0.99	49.0	D
	Intersection		42.1	D	Intersection		54.9	D		Intersection		55.7	E
Ninth Avenue and West 23rd Street													
Eastbound	T	0.45	30.9	C	T	0.49	31.7	C		T	0.45	29.3	C
	R	0.57	38.7	D	R	0.57	38.7	D		R	0.52	34.6	C
Westbound	T	0.88	56.3	E	T	0.98	75.2	E	+	T	0.91	57.6	E
Southbound	L	0.72	54.0	D	L	0.72	54.0	D		L	0.72	54.0	D
	TR	0.63	17.8	B	TR	0.64	18.0	B		TR	0.67	19.8	B
	Intersection		29.1	C	Intersection		32.9	C		Intersection		30.5	C
Eighth Avenue and West 42nd Street													
Eastbound	L	0.64	43.7	D	L	0.64	43.7	D		L	0.68	47.1	D
	T	0.49	15.9	B	T	0.50	16.2	B		T	0.50	16.2	B
Westbound	-	-	-	-	-	-	-	-		-	-	-	-
	TR	0.92	63.5	E	TR	0.96	70.0	E	+	TR	0.92	61.2	E
	-	-	-	-	-	-	-	-		-	-	-	-
Northbound	T	0.23	20.0	C	T	0.25	20.3	C		T	0.25	20.3	C
	R	1.06	175.4	F	R	1.06	175.4	F		R	1.06	175.4	F
	Intersection		39.5	D	Intersection		40.9	D		Intersection		39.1	D
Eighth Avenue and West 37th Street													
Westbound	T	1.04	75.8	E	T	1.10	97.4	F	+	T	1.05	76.3	E
	R	0.57	37.0	D	R	0.57	37.0	D		R	0.52	32.5	C
Northbound	L	0.42	36.7	D	L	0.42	36.7	D		L	0.42	36.7	D
	T	0.46	16.3	B	T	0.48	16.6	B		T	0.50	18.1	B
	Intersection		43.1	D	Intersection		52.3	D		Intersection		44.1	D
Eighth Avenue and West 36th Street													
Eastbound	L	0.67	39.1	D	L	0.67	39.1	D		L	0.64	36.8	D
	T	1.17	124.2	F	T	1.21	137.5	F	+	T	1.18	123.6	F
Northbound	T	0.36	14.4	B	T	0.38	14.6	B		T	0.38	15.3	B
	R	0.74	40.8	D	R	0.77	43.8	D		R	0.79	47.7	D
	Intersection		66.5	E	Intersection		72.2	E		Intersection		66.8	E
Eighth Avenue and West 34th Street													
Eastbound	T	1.03	79.1	E	T	1.06	87.9	F	+	T	1.00	68.0	E
Westbound	-	-	-	-	-	-	-	-		-	-	-	-
	TR	1.16	123.6	F	TR	1.21	143.6	F	+	TR	1.13	112.4	F
	-	-	-	-	-	-	-	-		-	-	-	-
Northbound	L	0.65	54.2	D	L	0.65	54.2	D		L	0.65	54.2	D
	TR	0.68	24.1	C	TR	0.70	24.8	C		TR	0.74	27.5	C
	Intersection		68.4	E	Intersection		76.8	E		Intersection		63.8	E
Eighth Avenue and West 33rd Street													
Westbound	TR	0.03	17.8	B	TR	0.03	17.8	B		TR	0.03	19.1	B
Northbound	L	0.93	80.3	F	L	1.10	126.4	F	+	L	0.96	83.2	F
	TR	0.46	20.7	C	TR	0.48	21.0	C		TR	0.45	19.4	B
	Intersection		33.4	C	Intersection		46.0	D		Intersection		34.5	C
Eighth Avenue and West 29th Street													
Westbound	TR	1.00	65.8	E	TR	1.12	101.2	F	+	Unmitigated			
Northbound	L	0.75	40.2	D	L	0.76	41.0	D					
	T	0.30	14.1	B	T	0.32	14.2	B					
	Intersection		35.9	D	Intersection		49.7	D					
Eighth Avenue and West 23rd Street													
Eastbound	T	0.79	43.8	D	T	0.83	47.4	D		T	0.78	40.5	D
Westbound	-	-	-	-	-	-	-	-		-	-	-	-
	TR	1.09	107.0	F	TR	1.17	133.6	F	+	TR	1.08	101.4	F
	-	-	-	-	-	-	-	-		-	-	-	-
Northbound	L	0.34	37.4	D	L	0.34	37.4	D		L	0.34	37.4	D
	TR	0.58	18.2	B	TR	0.60	18.5	B		TR	0.63	20.2	C
	Intersection		40.6	D	Intersection		47.4	D		Intersection		40.8	D

2031 No Action, With Action, and Mitigation Conditions Traffic Level of Service Analysis - Alternative Scenario
Saturday Evening Peak Hour

Notes: L = Left Turn; T= Through; R = Right Turn; LOS = Level of Service, + Denotes significant adverse traffic impact.

¹ The Eleventh Avenue and West 22nd Street intersection is controlled by the same traffic signal as the Twelfth Avenue and Eleventh Avenue intersection and was therefore also included for detailed analysis.

Pedestrians

Pedestrians Tables

Table MA-P1
2031 No Action, With Action, and Mitigation Conditions Sidewalk Analysis
Proposed Project
Weekday AM Peak Hour

Intersection	Sidewalk	Recommended Mitigation Measures	Mitigation Effectiveness	2031 No Action		2031 With Action		2031 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Eleventh Avenue and West 33rd Street	East sidewalk along Eleventh Avenue between West 33rd Street and West 32nd Street	Remove flower pot	Fully Mitigated	55.3	C	25.7	D	36.9	D
Eleventh Avenue and West 31st Street	West sidewalk along Eleventh Avenue between West 31st Street and Site B Entrance	None	Unmitigated	42.7	C	31.3	D	31.3	D
Tenth Avenue and West 31st Street	East sidewalk along Tenth Avenue between West 31st Street and Dyer Avenue	None	Unmitigated	21.4	E	18.2	E	18.2	E

Table MA-P2
2031 No Action, With Action, and Mitigation Conditions Sidewalk Analysis
Proposed Project
Weekday Midday Peak Hour

		Weekly Peak Hour							
Intersection	Sidewalk	Recommended Mitigation Measures	Mitigation Effectiveness	2031 No Action		2031 With Action		2031 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Eleventh Avenue and West 33rd Street	East sidewalk along Eleventh Avenue between West 33rd Street and West 32nd Street	Remove flower pot	N/A*	58.7	C	33.6	D	47.5	C
	South sidewalk along West 33rd Street between Eleventh Avenue and Hudson Boulevard East	None	Unmitigated	16.7	E	11.9	E	11.9	E
	South sidewalk along West 33rd Street between With Action Site Entrance and Eleventh Avenue	None	Unmitigated	12.7	E	11.4	E	11.4	E
Tenth Avenue and West 33rd Street	South sidewalk along West 33rd Street between Tenth Avenue and Ninth Avenue	None	Unmitigated	17.6	E	15.7	E	15.7	E

Note:
 *Mitigation measure proposed to address significant adverse impact in a separate peak hour

Weekday PM Peak Hour

Intersection	Sidewalk	Recommended Mitigation Measures	Mitigation Effectiveness	2031 No Action		2031 With Action		2031 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Eleventh Avenue and West 33rd Street	North sidewalk along West 33rd Street between Eleventh Avenue and Hudson Boulevard East	None	Unmitigated	24.1	D	19.1	E	19.1	E
	East sidewalk along Eleventh Avenue between West 33rd Street and West 32nd Street	Remove flower pot	Fully Mitigated	49.0	C	24.4	D	35.0	D
	South sidewalk along West 33rd Street between Eleventh Avenue and Hudson Boulevard East	None	Unmitigated	7.0	F	5.3	F	5.3	F
	South sidewalk along West 33rd Street between With Action Site Entrance and Eleventh Avenue	None	Unmitigated	15.6	E	7.9	F	7.9	F
Tenth Avenue and West 31st Street	East sidewalk along Tenth Avenue between West 31st Street and Dyer Avenue	None	Unmitigated	27.9	D	24.0	D	24.0	D
Tenth Avenue and West 28th Street	West sidewalk along Tenth Avenue between West 28th Street and West 27th Street	None	Unmitigated	35.7	D	30.4	D	30.4	D
Dyer Avenue and West 31st Street	South sidewalk along West 31st Street between Dyer Avenue and Ninth Avenue	None	Unmitigated	37.7	D	26.1	D	26.1	D
Ninth Avenue and West 31st Street	South sidewalk along West 31st Street between Ninth Avenue and Eighth Avenue	None	Unmitigated	45.1	C	24.9	D	24.9	D

Weekday Evening Peak Hour

Intersection	Sidewalk	Recommended Mitigation Measures	Mitigation Effectiveness	2031 No Action		2031 With Action		2031 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Eleventh Avenue and West 33rd Street	North sidewalk along West 33rd Street between Eleventh Avenue and Hudson Boulevard East	None	Unmitigated	47.9	C	31.4	D	31.4	D
	East sidewalk along Eleventh Avenue between West 33rd Street and West 32nd Street	Remove flower pot	N/A*	99.8	B	66.7	C	93.1	B
	South sidewalk along West 33rd Street between Eleventh Avenue and Hudson Boulevard East	None	Unmitigated	22.6	E	13.3	E	13.3	E
	South sidewalk along West 33rd Street between With Action Site Entrance and Eleventh Avenue	None	Unmitigated	33.1	D	10.1	F	10.1	F
Tenth Avenue and West 33rd Street	South sidewalk of West 33rd Street between Tenth Avenue and Ninth Avenue	None	Unmitigated	23.0	E	20.6	E	20.6	E

Note:
 *Mitigation measure proposed to address significant adverse impact in a separate peak hour

Saturday Midday/Afternoon Peak Hour

Note:
*Mitigation measure proposed to address significant adverse impact in a separate peak hour

Saturday Evening Peak Hour

*Mitigation measure proposed to address significant adverse impact in a separate peak hour

Weekday AM Peak Hour

<p>Notes:</p> <ul style="list-style-type: none"> *Mitigation measure proposed to address significant adverse impact in a separate peak hour **Mitigation measure proposed to address crosswalk impacts at the intersection

Weekday Midday Peak Hour

Notes:
*Mitigation measure proposed to address significant adverse impact in a separate peak hour
**Mitigation measure proposed to address crosswalk impacts at the intersection

Weekday PM Peak Hour

<p>Notes:</p> <ul style="list-style-type: none"> *Mitigation measure proposed to address significant adverse impact in a separate peak hour **Mitigation measures proposed to address crosswalk impacts at the intersection
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Weekday Evening Peak Hour

Notes:
*Mitigation measure proposed to address significant adverse impact in a separate peak hour
**Mitigation measures proposed to address crosswalk impacts at the intersection

Saturday Midday/Afternoon Peak Hour

Notes:
 *Mitigation measure proposed to address significant adverse impact in a separate peak hour
 **Mitigation measures proposed to address crosswalk impacts at the intersection

Saturday Evening Peak Hour

Notes:

- *Mitigation measure proposed to address significant adverse impact in a separate peak hour
- **Mitigation measures proposed to address crosswalk impacts at the intersection

Weekday AM Peak Hour

Note:
*Mitigation measure proposed to address significant adverse impact in a separate peak hour

Weekday Midday Peak Hour

Note:
*Mitigation measure proposed to address significant adverse impact in a separate peak hour

Weekday PM Peak Hour

Note:
*Mitigation measure proposed to address significant adverse impact in a separate peak hour

Weekday Evening Peak Hour

Note:
*Mitigation measure proposed to address significant adverse impact in a separate peak hour

Saturday Midday/Afternoon Peak Hour

Note:
*Mitigation measure proposed to address significant adverse impact in a separate peak hour

Saturday Evening Peak Hour

Note:
*Mitigation measure proposed to address significant adverse impact in a separate peak hour

Table MA-P19

2031 No Action, With Action, and Mitigation Conditions Sidewalk Analysis
Alternative Scenario
Weekday AM Peak Hour

Intersection	Sidewalk	Recommended Mitigation Measures	Mitigation Effectiveness	2031 No Action		2031 With Action		2031 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Eleventh Avenue and West 33rd Street	North sidewalk along West 33rd Street between Eleventh Avenue and Hudson Boulevard East	None	Unmitigated	22.6	E	17.6	E	17.6	E
	East sidewalk along Eleventh Avenue between West 33rd Street and West 32nd Street	Remove flower pot	Fully Mitigated	55.3	C	25.3	D	36.2	D
	South sidewalk along West 33rd Street between Eleventh Avenue and Hudson Boulevard East	None	Unmitigated	8.9	F	6.9	F	6.9	F
Tenth Avenue and West 31st Street	East sidewalk along Tenth Avenue between West 31st Street and Dyer Avenue	None	Unmitigated	21.4	E	18.0	E	18.0	E

Table MA-P20

2031 No Action, With Action, and Mitigation Conditions Sidewalk Analysis
Alternative Scenario
Weekday Midday Peak Hour

Intersection	Sidewalk	Recommended Mitigation Measures	Mitigation Effectiveness	2031 No Action		2031 With Action		2031 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Eleventh Avenue and West 33rd Street	East sidewalk along Eleventh Avenue between West 33rd Street and West 32nd Street	Remove flower pot	N/A*	58.7	C	33.1	D	46.8	C
	South sidewalk along West 33rd Street between Eleventh Avenue and Hudson Boulevard East	None	Unmitigated	16.7	E	14.4	E	14.4	E
Eleventh Avenue and West 30th Street	West sidewalk along Eleventh Avenue between West 30th Street and West 29th Street	None	Unmitigated	32.1	D	27.4	D	27.4	D
Eleventh Avenue and West 29th Street	West sidewalk along Eleventh Avenue between West 29th Street and West 28th Street	None	Unmitigated	35.5	D	30.2	D	30.2	D
Tenth Avenue and West 29th Street	West sidewalk along Tenth Avenue between West 29th Street and West 28th Street	None	Unmitigated	23.9	D	21.0	E	21.0	E
Tenth Avenue and West 28th Street	West sidewalk along Tenth Avenue between West 28th Street and West 27th Street	None	Unmitigated	11.2	E	8.8	F	8.8	F

Note: *Mitigation measure proposed to address significant adverse impact in a separate peak hour

Table MA-P21

2031 No Action, With Action, and Mitigation Conditions Sidewalk Analysis
Alternative Scenario
Weekday PM Peak Hour

Intersection	Sidewalk	Recommended Mitigation Measures	Mitigation Effectiveness	2031 No Action		2031 With Action		2031 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Eleventh Avenue and West 33rd Street	South sidewalk along West 33rd Street between Site C2 and Site C1	None	Unmitigated	79.3	C	13.1	E	13.1	E
	North sidewalk along West 33rd Street between Eleventh Avenue and Hudson Boulevard East	None	Unmitigated	24.1	D	14.4	E	14.4	E
	East sidewalk along Eleventh Avenue between West 33rd Street and West 32nd Street	Remove flower pot	Fully Mitigated	49.0	C	23.9	D	34.4	D
	South sidewalk along West 33rd Street between Eleventh Avenue and Hudson Boulevard East	None	Unmitigated	7.0	F	1.1	F	1.1	F
	South sidewalk along West 33rd Street between With Action Site Entrance and Eleventh Avenue	None	Unmitigated	15.6	E	-1.0	F	-1.0	F
Tenth Avenue and West 33rd Street	South sidewalk along West 33rd Street between Hudson Boulevard East and Tenth Avenue	None	Unmitigated	22.0	E	16.8	E	16.8	E
Tenth Avenue and West 31st Street	East sidewalk along Eleventh Avenue between West 31st Street and Dyer Avenue	None	Unmitigated	27.9	D	23.8	D	23.8	D
Tenth Avenue and West 28th Street	West sidewalk along Tenth Avenue between West 28th Street and West 27th Street	None	Unmitigated	35.7	D	27.7	D	27.7	D
Dyer Avenue and West 31st Street	South sidewalk along West 31st Street between Dyer Avenue and Ninth Avenue	None	Unmitigated	37.7	D	24.7	D	24.7	D
Ninth Avenue and West 31st Street	South sidewalk along West 31st Street between Ninth Avenue and Eighth Avenue	None	Unmitigated	45.1	C	23.5	D	23.5	D

Weekday Evening Peak Hour

Note:
*Mitigation measure proposed to address significant adverse impact in a separate peak hour

Saturday Midday/Afternoon Peak Hour

Note:
*Mitigation measure proposed to address significant adverse impact in a separate peak hour

Saturday Evening Peak Hour

Note:
*Mitigation measure proposed to address significant adverse impact in a separate peak hour

Table MA-P25
2031 No Action, With Action, and Mitigation Conditions Corner Analysis
Alternative Scenario
Weekday AM Peak Hour

Intersection	Corner	Recommended Mitigation Measures	Mitigation Effectiveness	2031 No Action		2031 With Action		2031 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Eleventh Avenue and West 33rd Street	Northwest	Add 9 foot bulbout on Eleventh Avenue;	N/A*	27.6	C	24.3	C	48.4	B
	Southeast	Add 10 foot bulbout on Eleventh Avenue; shift 3 seconds from FDW to Walk in Phase B for east/west/south crosswalks	N/A*	-1.1	F	2.5	F	12.9	E
Tenth Avenue and West 31st Street	Southeast	Shift 3 seconds from FDW to Walk for north, east, and south crosswalks	Partially Mitigated**	12.2	E	8.8	E	9.7	E
Dyer Avenue and West 31st Street	Northeast	Shift 2 seconds from FDW to Walk for north and south crosswalks; Shift 3 seconds from FDW to Walk for east and west crosswalks	Partially Mitigated**	9.7	E	1.0	F	2.5	F
	Southeast	Shift 2 seconds from FDW to Walk for north and south crosswalks; Shift 3 seconds from FDW to Walk for east and west crosswalks	Partially Mitigated**	15.6	D	1.0	F	2.7	F

Notes:

*Mitigation measure proposed to address significant adverse impact in a separate peak hour

**Mitigation measure proposed to address crosswalk impacts at the intersection

Table MA-P26
2031 No Action, With Action, and Mitigation Conditions Corner Analysis
Alternative Scenario
Weekday Midday Peak Hour

Intersection	Corner	Recommended Mitigation Measures	Mitigation Effectiveness	2031 No Action		2031 With Action		2031 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Eleventh Avenue and West 33rd Street	Northwest	Add 9 foot bulbout on Eleventh Avenue	N/A*	35.4	C	33.2	C	63.4	A
	Southeast	Add 10 foot bulbout on Eleventh Avenue	N/A*	10.0	E	12.2	E	26.6	C
Tenth Avenue and West 35th Street	Southeast	Shift 3 seconds from FDW to Walk for east and west crosswalks	Fully Mitigated	20.3	D	18.3	D	18.8	D
Tenth Avenue and West 31st Street	Southeast	Shift 3 seconds from FDW to Walk for north and south crosswalks	Fully Mitigated	8.4	E	7.8	F	8.8	E
Note: *Mitigation measure proposed to address significant adverse impact in a separate peak hour **Mitigation measure proposed to address crosswalk impacts at the intersection									

Table MA-P27
Conditions Corner Analysis
Alternative Scenario
Weekday PM Peak Hour

Intersection	Corner	Recommended Mitigation Measures	Mitigation Effectiveness	2031 No Action		2031 With Action		2031 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Eleventh Avenue and West 33rd Street	Northwest	Add 9 foot bulbout on Eleventh Avenue; shift 1 second from FDW to Walk for north crosswalk	Fully Mitigated	22.1	D	11.3	E	X	26.4
	Southeast	Add 10 foot bulbout on Eleventh Avenue	Partially Mitigated	7.6	F	-1.9	F	X	5.2
Tenth Avenue and West 31st Street	Southeast	Shift 3 seconds from FDW to Walk for north and south crosswalks	Partially Mitigated**	9.4	E	6.6	F	7.8	F
Dyer Avenue and West 31st Street	Northwest	Shift 2 seconds from FDW to Walk for north and south crosswalks; Shift 3 seconds from FDW to Walk for east and west crosswalks	Partially Mitigated**	21.3	D	10.5	E	11.9	E
	Northeast	Shift 2 seconds from FDW to Walk for north and south crosswalks; Shift 3 seconds from FDW to Walk for east and west crosswalks	Partially Mitigated**	25.5	C	15.9	D	16.5	D
	Southwest	Shift 2 seconds from FDW to Walk for north and south crosswalks; Shift 3 seconds from FDW to Walk for east and west crosswalks	Partially Mitigated**	27.1	C	9.8	E	11.4	E

Notes:

*Mitigation measure proposed to address significant adverse impact in a separate peak hour

**Mitigation measures proposed to address crosswalk impacts at the intersection

Table MA-P28
on Conditions Corner Analysis
Alternative Scenario
Weekday Evening Peak Hour

[illegible]

Table MA-P29

2031 No Action, With Action, and Mitigation Conditions Corner Analysis

Alternative Scenario

Saturday Midday/Afternoon Peak Hour

Intersection	Corner	Recommended Mitigation Measures	Mitigation Effectiveness	2031 No Action		2031 With Action		2031 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Eleventh Avenue and West 33rd Street	Northwest	Add 9 foot bulbout on Eleventh Avenue	N/A*	47.6	B	62.0	A	114.8	A
	Southeast	Add 10 foot bulbout on Eleventh Avenue	N/A*	12.2	E	21.2	D	43.6	B
Notes: *Mitigation measure proposed to address significant adverse impact in a separate peak hour **Mitigation measures proposed to address crosswalk impacts at the intersection									

Table MA-P30
2031 No Action, With Action, and Mitigation Conditions Corner Analysis
Alternative Scenario
Saturday Evening Peak Hour

Intersection	Corner	Recommended Mitigation Measures	Mitigation Effectiveness	2031 No Action		2031 With Action		2031 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Eleventh Avenue and West 33rd Street	Northwest	Add 9 foot bulbout on Eleventh Avenue	N/A*	83.6	A	36.1	C	69.1	A
	Southeast	Add 10 foot bulbout on Eleventh Avenue	Partially Mitigated	34.5	C	3.7	F	16.6	D
Notes: *Mitigation measure proposed to address significant adverse impact in a separate peak hour **Mitigation measures proposed to address crosswalk impacts at the intersection									

Weekday AM Peak Hour

Note:
*Mitigation measure proposed to address significant adverse impact in a separate peak hour

Weekday Midday Peak Hour

Note:
*Mitigation measure proposed to address significant adverse impact in a separate peak hour

**Table MA-P33
Conditions Crosswalk Analysis
Alternative Scenario
Weekday PM Peak Hour**

Intersection	Crosswalk	Recommended Mitigation Measures	Mitigation Effectiveness	2031 No Action		2031 With Action		2031 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Eleventh Avenue and West 34th Street	East	Increase crosswalk width by 0.5 feet	N/A*	49.3	B	48.0	B	49.6	B
Eleventh Avenue and West 33rd Street	North	Add 9 foot bulbout on northwest corner on Eleventh Avenue; shift 1 second from FDW to Walk for north crosswalk (corner mitigation)	Unmitigated	28.1	C	18.1	D	18.0	D
	East	Increase crosswalk width by 4 feet	Partially Mitigated	19.4	D	12.6	E	16.5	D
	South	Add 10 foot bulbout on southeast corner on Eleventh Avenue (corner mitigation)	Unmitigated	1.8	F	1.2	F	1.1	F
	West	Increase crosswalk width by 6 feet	Partially Mitigated	13.0	E	5.9	F	9.1	E
Eleventh Avenue and West 30th Street	North	Increase crosswalk width by 3.5 feet	Fully Mitigated	12.3	E	8.0	E	11.6	E
	East	None	Unmitigated	9.3	E	5.1	F	5.1	F
	West	None	Unmitigated	16.8	D	12.4	E	12.4	E
Eleventh Avenue and West 29th Street	West	None	Unmitigated	22.9	D	17.2	D	17.2	D
Hudson Boulevard East and West 33rd Street	West	Shift 3 seconds from FDW to Walk for west crosswalk	Fully Mitigated	1.4	F	1.0	F	1.3	F
Tenth Avenue and West 33rd Street	South	None	Unmitigated	7.8	F	7.1	F	7.1	F
Tenth Avenue and West 31st Street	South	Shift 3 seconds from FDW to Walk for north and south crosswalks	Partially Mitigated	20.6	D	16.3	D	18.5	D
Tenth Avenue and West 30th Street	North	Shift 4 seconds from FDW to Walk for north and south crosswalks	Fully Mitigated	38.9	C	17.2	D	22.2	D
Dyer Avenue and West 31st Street	North	Increase crosswalk width by 0.5 feet; Shift 2 seconds from FDW to Walk for north and south crosswalks	Partially Mitigated	6.9	F	5.0	F	6.2	F
	South	Increase crosswalk width by 2.5 feet; Shift 2 seconds from FDW to Walk for north and south crosswalks	Fully Mitigated	9.3	E	5.9	F	8.9	E
Ninth Avenue and West 31st Street	North	Shift 6 seconds from FDW to Walk for north and south crosswalks	Fully Mitigated	17.8	D	12.8	E	18.5	D
	South	Shift 6 seconds from FDW to Walk for north and south crosswalks	Partially Mitigated	20.4	D	11.7	E	18.3	D

Note:

*Mitigation measure proposed to address significant adverse impact in a separate peak hour

Table MA-P34
Conditions Crosswalk Analysis
Alternative Scenario
Weekday Evening Peak Hour

Intersection	Crosswalk	Recommended Mitigation Measures	Mitigation Effectiveness	2031 No Action		2031 With Action		2031 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Eleventh Avenue and West 34th Street	East	Increase crosswalk width by 0.5 feet	N/A*	58.9	B	72.2	A	74.6	A
Eleventh Avenue and West 33rd Street	East	Increase crosswalk width by 4 feet	N/A*	49.3	B	43.1	B	55.0	B
	South	Add 10 foot bulbout on southeast corner on Eleventh Avenue (corner mitigation)	Unmitigated	3.9	F	3.4	F	3.2	F
	West	Increase crosswalk width by 6 feet	N/A*	32.7	C	26.7	C	38.8	C
Eleventh Avenue and West 30th Street	North	Increase crosswalk width by 3.5 feet	N/A*	20.7	D	20.7	D	29.1	C
Hudson Boulevard East and West 33rd Street	West	Shift 2 seconds from FDW to Walk for west crosswalk	Fully Mitigated	3.5	F	2.9	F	3.4	F
Dyer Avenue and West 31st Street	North	Increase crosswalk width by 0.5 feet; Shift 1 seconds from FDW to Walk for north and south crosswalks	Fully Mitigated	17.0	D	14.4	E	16.7	D
	South	Increase crosswalk width by 2.5 feet; Shift 1 seconds from FDW to Walk for north and south crosswalks	Fully Mitigated	20.7	D	15.4	D	21.7	D

Note:
 *Mitigation measure proposed to address significant adverse impact in a separate peak hour

Table MA-P35

2031 No Action, With Action, and Mitigation Conditions Crosswalk Analysis
Alternative Scenario
Saturday Midday/Afternoon Peak Hour

Intersection	Crosswalk	Recommended Mitigation Measures	Mitigation Effectiveness	2031 No Action		2031 With Action		2031 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Eleventh Avenue and West 34th Street	East	Increase crosswalk width by 0.5 feet	N/A*	32.4	C	37.4	C	38.7	C
Eleventh Avenue and West 33rd Street	East	Increase crosswalk width by 4 feet	N/A*	32.2	C	37.1	C	47.4	B
	West	Increase crosswalk width by 6 feet	N/A*	25.0	C	31.3	C	45.2	B
Eleventh Avenue and West 30th Street	North	Increase crosswalk width by 3.5 feet	N/A*	16.3	D	20.6	D	28.9	C
	East	None	Unmitigated	13.1	E	11.7	E	11.7	E
Eleventh Avenue and West 24th Street	East	None	Unmitigated	16.9	D	14.3	E	14.3	E
Dyer Avenue and West 31st Street	North	Increase crosswalk width by 0.5 feet	N/A*	13.0	E	14.7	E	15.7	D
	South	Increase crosswalk width by 2.5 feet	N/A*	17.0	D	19.0	D	25.0	C

Note:
 *Mitigation measure proposed to address significant adverse impact in a separate peak hour

Table MA-P36

2031 No Action, With Action, and Mitigation Conditions Crosswalk Analysis
Alternative Scenario
Saturday Evening Peak Hour

Intersection	Crosswalk	Recommended Mitigation Measures	Mitigation Effectiveness	2031 No Action		2031 With Action		2031 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Eleventh Avenue and West 34th Street	East	Increase crosswalk width by 0.5 feet	N/A*	78.9	A	75.0	A	77.5	A
Eleventh Avenue and West 33rd Street	East	Increase crosswalk width by 4 feet	N/A*	58.3	B	34.5	C	44.2	B
	South	Add 10 foot bulbout on southeast corner on Eleventh Avenue (corner mitigation)	Unmitigated	5.6	F	1.8	F	1.7	F
	West	Increase crosswalk width by 6 feet	Fully Mitigated	49.8	B	17.4	D	25.6	C
Eleventh Avenue and West 30th Street	North	Increase crosswalk width by 3.5 feet	N/A*	16.7	D	22.4	D	31.4	C
	East	None	Unmitigated	25.0	C	15.2	D	15.2	D
	West	None	Unmitigated	21.7	D	11.7	E	11.7	E
Hudson Boulevard East and West 33rd Street	West	Shift 3 seconds from FDW to Walk for west crosswalk	Partially Mitigated	5.3	F	3.6	F	4.6	F
Tenth Avenue and West 33rd Street	South	None	Unmitigated	23.4	D	15.9	D	15.9	D
Dyer Avenue and West 31st Street	North	Increase crosswalk width by 0.5 feet; Shift 2 seconds from FDW to Walk for north and south crosswalks	Partially Mitigated	22.2	D	15.5	D	19.4	D
	South	Increase crosswalk width by 2.5 feet; Shift 2 seconds from FDW to Walk for north and south crosswalks	N/A*	28.2	C	20.8	D	31.2	C

Note:
 *Mitigation measure proposed to address significant adverse impact in a separate peak hour