

# HCM 7th TWSC

## 1: Park Avenue & NC 96 Hwy W/NC 96 Bypass

06/10/2024

Intersection												
Int Delay, s/veh	1453.2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑	↗	↖	↗		↖	↗		↗		
Traffic Vol, veh/h	0	576	635	311	186	133	208	148	318	177	195	0
Future Vol, veh/h	0	576	635	311	186	133	208	148	318	177	195	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	Yield	-	-	None	-	-	None	-	-	None
Storage Length	-	-	0	125	-	-	125	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	640	706	346	207	148	231	164	353	197	217	0
Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	-	0	0	640	0	0	1646	1686	640	1694	1612	-
Stage 1	-	-	-	-	-	-	640	640	-	972	972	-
Stage 2	-	-	-	-	-	-	1006	1046	-	722	640	-
Critical Hdwy	-	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	-
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	-	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	-
Pot Cap-1 Maneuver	0	-	-	944	-	-	~ 79	~ 94	475	~ 73	~ 104	0
Stage 1	0	-	-	-	-	-	464	470	-	304	331	0
Stage 2	0	-	-	-	-	-	291	306	-	418	470	0
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	-	-	-	944	-	-	~ 50	~ 60	475	~ 12	~ 66	-
Mov Cap-2 Maneuver	-	-	-	-	-	-	~ 50	~ 60	-	~ 12	~ 66	-
Stage 1	-	-	-	-	-	-	464	470	-	~ 193	~ 210	-
Stage 2	-	-	-	-	-	-	-	194	-	~ 70	470	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s/v	0			5.43			\$ 1372.03			\$ 8782.75		
HCM LOS							F			F		
Minor Lane/Major Mvmt	NBLn1 NBLn2		EBT	EBR	WBL	WBT	WBR	SBLn1				
Capacity (veh/h)	50 148		-	-	944	-	-	21				
HCM Lane V/C Ratio	4.594 3.505		-	-	0.366	-	-	19.73				
HCM Control Delay (s/veh)	\$ 1780.5 \$ 1189.7		-	-	11	-	-	\$ 8782.8				
HCM Lane LOS	F F		-	-	B	-	-	F				
HCM 95th %tile Q(veh)	25.9 50.1		-	-	1.7	-	-	52				
Notes												
~: Volume exceeds capacity    \$: Delay exceeds 300s    +: Computation Not Defined    *: All major volume in platoon												