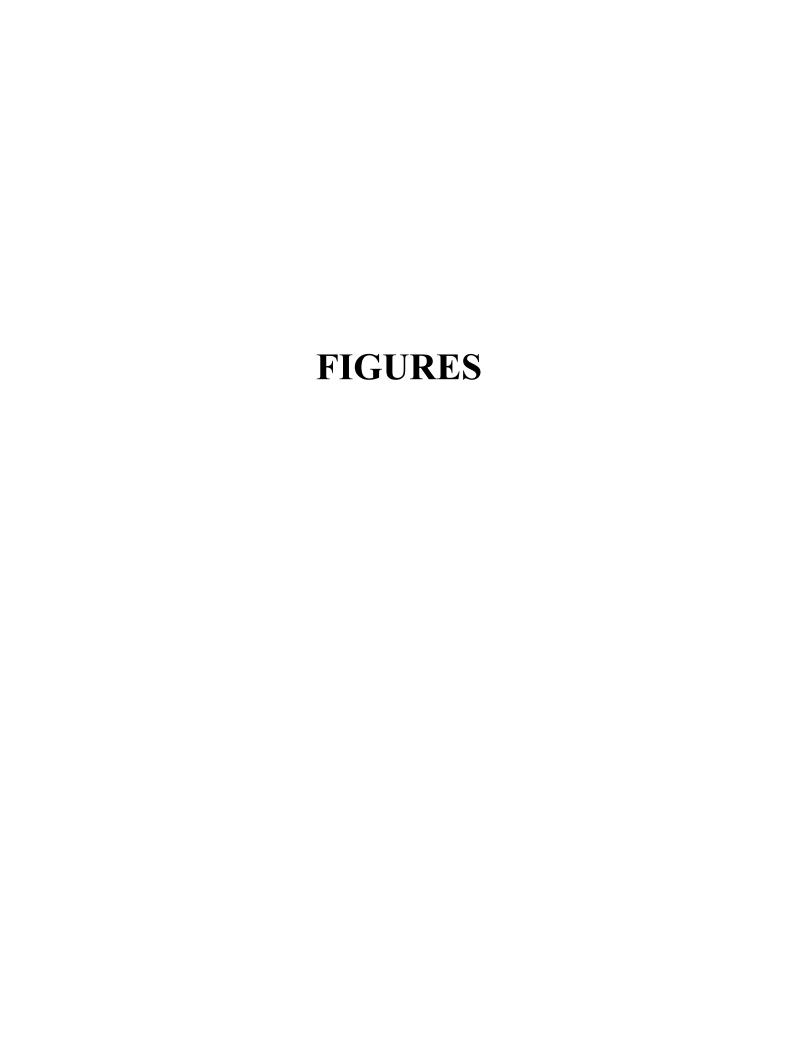
TECHNICAL APPENDIX



CAPACITY ANALYSIS RESULTS FUTURE CONDITIONS WITH ADJACENT DEVELOPMENT

	-	*	•	4	1	<i>*</i>	
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations Sign Control Grade Volume (veh/h) Peak Hour Factor Hourly flow rate (veh/h) Pedestrians	Free 0% 277 0.90 308	7 0.90 8	9 0.90 10	Free 0% 205 0.90 228	Stop 0% 22 0.90 24	28 0.90 31	
Lane Width (ft) Walking Speed (ft/s) Percent Blockage Right turn flare (veh) Median type Median storage veh) Upstream signal (ft)					None		
pX, platoon unblocked vC, conflicting volume vC1, stage 1 conf vol vC2, stage 2 conf vol			316		559	312	
vCu, unblocked vol tC, single (s) tC, 2 stage (s)			316 4.1		559 6.4	312 6.2	
tF (s) p0 queue free % cM capacity (veh/h)			2.2 99 1245		3.5 95 486	3.3 96 729	
Direction, Lane#	EB 1	WB 1	NB 1				
Volume Total Volume Left Volume Right cSH Volume to Capacity Queue Length (ft)	316 0 8 1700 0.19 0	238 10 0 1245 0.01 1	56 24 31 597 0.09 8				
Control Delay (s) Lane LOS Approach Delay (s) Approach LOS	0.0	0.4 A 0.4	11.6 B 11.6 B				
Intersection Summary			-				
Average Delay Intersection Capacity Uti	lization		1.2 26.7%	10	CU Leve	l of Ser	vice A

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Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations Sign Control Grade Volume (veh/h) Peak Hour Factor	Free 0% 197 0.90	25 0.90	31	Free 0% 265	Stop 0% 15	18	
Hourly flow rate (veh/h) Pedestrians Lane Width (ft) Walking Speed (ft/s) Percent Blockage Right turn flare (veh)	219	28	0.90 34	0.90 294	0.90 17	0.90 20	
Median type Median storage veh) Upstream signal (ft) pX, platoon unblocked					None		
vC, conflicting volume vC1, stage 1 conf vol vC2, stage 2 conf vol			247		596	233	
vCu, unblocked vol tC, single (s) tC, 2 stage (s)			247 4.1		596 6.4	233 6.2	
tF (s) p0 queue free % cM capacity (veh/h)			2.2 97 1319		3.5 96 454	3.3 98 806	
Direction, Lane #	EB 1	WB 1	NB 1				
Volume Total Volume Left Volume Right	247 0 28	329 34 0	37 17 20				
cSH Volume to Capacity	1700 0.15	1319 0.03	596 0.06				
Queue Length (ft)	0.10	2	5				
Control Delay (s) Lane LOS	0.0	1.0 A	11.4 B				
Approach Delay (s) Approach LOS	0.0	1.0	11.4 B				
Intersection Summary							
Average Delay Intersection Capacity Uti	lization		1.2 43.9%	IC	CU Leve	l of Serv	ice A

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		-			1	*	
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		_ 4	_ ₽		JK/AF		
Sign Control		Free	Free		Stop		
Grade		0%	0%		0%		
Volume (veh/h)	4	730	337	5	16	13	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	
Hourly flow rate (veh/h)	4	811	374	6	18	14	
Pedestrians							
Lane Width (ft)							
Walking Speed (ft/s)							
Percent Blockage							
Right turn flare (veh)							
Median type					None		
Median storage veh)							
Upstream signal (ft)							
pX, platoon unblocked							
vC, conflicting volume	380				1197	377	
vC1, stage 1 conf vol							
vC2, stage 2 conf vol							
vCu, unblocked vol	380				1197	377	
tC, single (s)	4.1				6.4	6.2	
tC, 2 stage (s)							
tF (s)	2.2				3.5	3.3	
p0 queue free %	100				91	98	
cM capacity (veh/h)	1178				204	669	
Direction, Lane #	EB 1	WB 1	SB 1				
Volume Total	816	380	32				
Volume Left	4	0	18				
Volume Right	0	6	14				
cSH	1178	1700	297				
Volume to Capacity	0.00	0.22	0.11				
Queue Length (ft)	0	0	9				
Control Delay (s)	0.1	0.0	18.6				
Lane LOS	Α		С				
Approach Delay (s)	0.1	0.0	18.6				
Approach LOS			С				
Intersection Summary							
Average Delay			0.6				444
Intersection Capacity Uti	ilization		56.1%	IC	CU Leve	l of Serv	ice A

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	ⅉ		4	1	-	1	
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations Sign Control Grade		र्भ Free 0%	1 + Free 0%		Stop 0%		
Volume (veh/h)	15	205	358	18	11	9	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	
Hourly flow rate (veh/h) Pedestrians Lane Width (ft) Walking Speed (ft/s) Percent Blockage	17	228	398	20	12	10	
Right turn flare (veh) Median type Median storage veh) Upstream signal (ft)					None		
pX, platoon unblocked vC, conflicting volume vC1, stage 1 conf vol vC2, stage 2 conf vol	418				669	408	
vCu, unblocked vol	418				669	408	
tC, single (s) tC, 2 stage (s)	4.1				6.4	6.2	
tF ₁ (s)	2.2				3.5	3.3	
p0 queue free %	99				97	98	
cM capacity (veh/h)	1141				417	643	
Direction, Lane #	EB 1	WB 1	SB 1				
Volume Total	244	418	22				
Volume Left	17	0	12				
Volume Right	0	20	10				
cSH	1141	1700	495				
Volume to Capacity	0.01	0.25	0.04				
Queue Length (ft)	1	0	4				
Control Delay (s)	0.7	0.0	12.6				
Lane LOS	A		В				
Approach Delay (s) Approach LOS	0.7	0.0	12.6 B				
Intersection Summary							
Average Delay			0.7				
Intersection Capacity Uti	ilization		32.1%	IC	U Leve	l of Servi	ce A

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Movement	EBL	EDT	\ \ /DT	///DD	CD!	CDD		
Lane Configurations	EDL	EBT	WBT	WBR	SBL	SBR		
Sign Control		र्भी Free	ĵ.		Yyr Ctan			
Grade			Free		Stop			
	2	0%	0%	4	0%	40		
Volume (veh/h) Peak Hour Factor	3	506	569	4	12	10		
	0.90	0.90	0.90	0.90	0.90	0.90		
Hourly flow rate (veh/h)	3	562	632	4	13	11		
Pedestrians								
Lane Width (ft)								
Walking Speed (ft/s)								
Percent Blockage								
Right turn flare (veh)								
Median type					None			
Median storage veh)								
Upstream signal (ft)								
pX, platoon unblocked								
vC, conflicting volume	637				1203	634		
vC1, stage 1 conf vol								
vC2, stage 2 conf vol								
vCu, unblocked vol	637				1203	634		
tC, single (s)	4.1				6.4	6.2		
tC, 2 stage (s)								
tF (s)	2.2				3.5	3.3		
p0 queue free %	100				93	98		
cM capacity (veh/h)	947				203	479		
Direction, Lane #	EB 1	WB 1	SB 1					
Volume Total	566	637	24					
Volume Left	3	0	13					
Volume Right	0	4	11					
cSH	947	1700	275					
Volume to Capacity	0.00	0.37	0.09					
Queue Length (ft)	0	0	7					
Control Delay (s)	0.1	0.0	19.4					
Lane LOS	Α		С					
Approach Delay (s)	0.1	0.0	19.4					
Approach LOS			С					
Intersection Summary								
Intersection Summary Average Delay Intersection Capacity Uti			0.4				-	544 eterorek baserasa saasta

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Movement	EBL	EBT	WBT	WBR	SBL	SBR			
Lane Configurations		सी	4		^ገ ጂዎ				
Sign Control		Free	Free		Stop				
Grade		0%	0%		0%				
Volume (veh/h)	12	204	369	14	8	7			
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90			
Hourly flow rate (veh/h)	13	227	410	16	9	8			
Pedestrians									
Lane Width (ft)									
Walking Speed (ft/s)									
Percent Blockage									
Right turn flare (veh)									
Median type					None				
Median storage veh)									
Upstream signal (ft)									
pX, platoon unblocked									
vC, conflicting volume	426				671	418			
vC1, stage 1 conf vol									
vC2, stage 2 conf vol									
vCu, unblocked vol	426				671	418			
tC, single (s)	4.1				6.4	6.2			
tC, 2 stage (s)									
tF (s)	2.2				3.5	3.3			
p0 queue free %	99				98	99			
cM capacity (veh/h)	1134				417	635			
Direction, Lane #	EB 1	WB1	SB 1						
Volume Total	240	426	17						
Volume Left	13	0	9						
Volume Right	0	16	8						
cSH	1134	1700	496						
Volume to Capacity	0.01	0.25	0.03						
Queue Length (ft)	1	0	3						
Control Delay (s)	0.6	0.0	12.5						
Lane LOS	Α		В						
Approach Delay (s)	0.6	0.0	12.5						
Approach LOS			В						
Intersection Summary									
Average Delay			0.5			The second secon			
Intersection Capacity Ut	ilization		32.5%	I	CU Leve	el of Servi	ce	Α	