

Appendix I

Traffic

TWO-WAY STOP CONTROL SUMMARY

General Information				Site Information				
Analyst	AAC			Intersection	June Rd & Hardscrabble Rd			
Agency/Co.	TMA			Jurisdiction	Town of North Salem			
Date Performed	5/23/2006			Analysis Year	Build Condition Sensitivity			
Analysis Time Period	AM Peak							
Project Description <i>Salem Hunt</i>								
East/West Street: <i>Hardscrabble Road</i>				North/South Street: <i>June Road</i>				
Intersection Orientation: <i>North-South</i>				Study Period (hrs): <i>0.25</i>				
Vehicle Volumes and Adjustments								
Major Street	Northbound			Southbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)	67	161			379	157		
Peak-Hour Factor, PHF	0.78	0.78	1.00	1.00	0.82	0.82		
Hourly Flow Rate, HFR (veh/h)	85	206	0	0	462	191		
Percent Heavy Vehicles	11	--	--	0	--	--		
Median Type	<i>Undivided</i>							
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration	<i>LT</i>						<i>TR</i>	
Upstream Signal		0			0			
Minor Street	Eastbound			Westbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)	84		84					
Peak-Hour Factor, PHF	0.75	1.00	0.75	1.00	1.00	1.00		
Hourly Flow Rate, HFR (veh/h)	112	0	112	0	0	0		
Percent Heavy Vehicles	12	0	12	0	0	0		
Percent Grade (%)	0			0				
Flared Approach		<i>N</i>			<i>N</i>			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	0	0	0	0	0		
Configuration		<i>LR</i>						
Delay, Queue Length, and Level of Service								
Approach	Northbound	Southbound	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	<i>LT</i>						<i>LR</i>	
v (veh/h)	85						224	
C (m) (veh/h)	892						341	
v/c	0.10						0.66	
95% queue length	0.32						4.41	
Control Delay (s/veh)	9.5						33.6	
LOS	<i>A</i>						<i>D</i>	
Approach Delay (s/veh)	--	--					33.6	
Approach LOS	--						<i>D</i>	

TWO-WAY STOP CONTROL SUMMARY

General Information		Site Information	
Analyst	AAC	Intersection	June Rd & Hardscrabble Rd
Agency/Co.	TMA	Jurisdiction	Town of North Salem
Date Performed	9/21/06	Analysis Year	Build Condition Sensitivity
Analysis Time Period	PM Peak		
Project Description <i>Salem Hunt</i>			
East/West Street: <i>Hardscrabble Road</i>		North/South Street: <i>June Road</i>	
Intersection Orientation: <i>North-South</i>		Study Period (hrs): <i>0.25</i>	

Vehicle Volumes and Adjustments

Major Street	Northbound			Southbound		
	1	2	3	4	5	6
Movement	L	T	R	L	T	R
Volume (veh/h)	65	234			150	113
Peak-Hour Factor, PHF	0.69	0.69	1.00	1.00	0.86	0.86
Hourly Flow Rate, HFR (veh/h)	94	339	0	0	174	131
Percent Heavy Vehicles	8	--	--	0	--	--
Median Type	<i>Undivided</i>					
RT Channelized			0			0
Lanes	0	1	0	0	1	0
Configuration	<i>LT</i>					<i>TR</i>
Upstream Signal		0			0	

Minor Street	Eastbound			Westbound		
	7	8	9	10	11	12
Movement	L	T	R	L	T	R
Volume (veh/h)	111		65			
Peak-Hour Factor, PHF	0.89	1.00	0.89	1.00	1.00	1.00
Hourly Flow Rate, HFR (veh/h)	124	0	73	0	0	0
Percent Heavy Vehicles	9	0	9	0	0	0
Percent Grade (%)		0			0	
Flared Approach		<i>N</i>			<i>N</i>	
Storage		0			0	
RT Channelized			0			0
Lanes	0	0	0	0	0	0
Configuration		<i>LR</i>				

Delay, Queue Length, and Level of Service

Approach	Northbound	Southbound	Westbound			Eastbound		
	1	4	7	8	9	10	11	12
Movement								
Lane Configuration	<i>LT</i>						<i>LR</i>	
v (veh/h)	94						197	
C (m) (veh/h)	1222						423	
v/c	0.08						0.47	
95% queue length	0.25						2.41	
Control Delay (s/veh)	8.2						20.7	
LOS	<i>A</i>						<i>C</i>	
Approach Delay (s/veh)	--	--					20.7	
Approach LOS	--	--					<i>C</i>	