

Appendix E

TRAFFIC ANALYSIS CAPACITY
CALCULATIONS

CAPACITY CALCULATIONS APPENDIX E

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NO-BUILD

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BUILD

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TWO-WAY STOP CONTROL SUMMARY							
General Information				Site Information			
Analyst	JAG			Intersection	US Route 6/ Windsor Road		
Agency/Co.	TMA			Jurisdiction	Town of Somers		
Date Performed	10/22/03			Analysis Year	Existing Condition		
Analysis Time Period	AM Peak Hour						
Project Description Yorktown Farms							
East/West Street: US Route 6				North/South Street: Windsor Road (west)			
Intersection Orientation: East-West				Study Period (hrs): 0.25			
Vehicle Volumes and Adjustments							
Major Street	Eastbound			Westbound			
Movement	1	2	3	4	5	6	
	L	T	R	L	T	R	
Volume (veh/h)	14	760	0	0	588	11	
Peak-hour factor, PHF	0.90	0.90	1.00	1.00	0.91	0.91	
Hourly Flow Rate (veh/h)	15	844	0	0	646	12	
Proportion of heavy vehicles, P _{HV}	5	--	--	0	--	--	
Median type	Undivided						
RT Channelized?			0			0	
Lanes	0	1	0	0	1	0	
Configuration	LT					TR	
Upstream Signal		0			0		
Minor Street	Northbound			Southbound			
Movement	7	8	9	10	11	12	
	L	T	R	L	T	R	
Volume (veh/h)	0	0	0	7	0	8	
Peak-hour factor, PHF	1.00	1.00	1.00	0.75	1.00	0.75	
Hourly Flow Rate (veh/h)	0	0	0	9	0	10	
Proportion of heavy vehicles, P _{HV}	0	0	0	0	0	0	
Percent grade (%)	0			5			
Flared approach		N			N		
Storage		0			0		
RT Channelized?			0			0	
Lanes	0	0	0	0	0	0	
Configuration					LR		
Control Delay, Queue Length, Level of Service							
Approach	EB	WB	Northbound			Southbound	
Movement	1	4	7	8	9	10	11 12
Lane Configuration	LT						LR
Volume, v (vph)	15						19
Capacity, c _m (vph)	916						208
v/c ratio	0.02						0.09
Queue length (95%)	0.05						0.30
Control Delay (s/veh)	9.0						24.0
LOS	A						C
Approach delay (s/veh)	--	--					24.0
Approach LOS	--	--					C

TWO-WAY STOP CONTROL SUMMARY							
General Information				Site Information			
Analyst	JAG			Intersection	Gay Ridge Road/ Curry Street		
Agency/Co.	TMA			Jurisdiction	Town of Yorktown		
Date Performed	10/26/03			Analysis Year	Existing Condition		
Analysis Time Period	AM Peak Hour						
Project Description Yorktown Farms							
East/West Street: Gay Ridge Road				North/South Street: Curry Street			
Intersection Orientation: North-South				Study Period (hrs): 0.25			
Vehicle Volumes and Adjustments							
Major Street	Northbound			Southbound			
Movement	1	2	3	4	5	6	
	L	T	R	L	T	R	
Volume	0	215	0	2	145	0	
Peak-Hour Factor, PHF	1.00	0.87	0.87	0.97	0.97	1.00	
Hourly Flow Rate, HFR	0	247	0	2	149	0	
Percent Heavy Vehicles	0	-	-	0	-	-	
Median Type	Undivided						
RT Channelized			0			0	
Lanes	0	1	0	0	1	0	
Configuration			TR	LT			
Upstream Signal		0			0		
Minor Street	Westbound			Eastbound			
Movement	7	8	9	10	11	12	
	L	T	R	L	T	R	
Volume	0	0	5	0	0	0	
Peak-Hour Factor, PHF	0.42	1.00	0.42	1.00	1.00	1.00	
Hourly Flow Rate, HFR	0	0	11	0	0	0	
Percent Heavy Vehicles	0	0	0	0	0	0	
Percent Grade (%)		-5			0		
Flared Approach		N			N		
Storage		0			0		
RT Channelized			0			0	
Lanes	0	0	0	0	0	0	
Configuration		LR					
Delay, Queue Length, and Level of Service							
Approach	NB	SB	Westbound			Eastbound	
Movement	1	4	7	8	9	10	11
Lane Configuration		LT		LR			
v (vph)		2		11			
C (m) (vph)		1331		797			
v/c		0.00		0.01			
95% queue length		0.00		0.04			
Control Delay		7.7		9.6			
LOS		A		A			
Approach Delay	-	-	9.6				
Approach LOS	-	-	A				

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TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	JAG			Intersection	Gomer Street/Curry Street			
Agency/Co.	TMA			Jurisdiction	Town of Yorktown			
Date Performed	10/29/03			Analysis Year	Existing Condition			
Analysis Time Period	AM Peak Hour							
Project Description Yorktown Farms								
East/West Street: Gomer Street				North/South Street: Curry Street				
Intersection Orientation: North-South				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Northbound			Southbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume	4	156	0	0	52	93		
Peak-Hour Factor, PHF	0.70	0.70	1.00	1.00	0.99	0.99		
Hourly Flow Rate, HFR	5	222	0	0	52	93		
Percent Heavy Vehicles	0	-	-	0	-	-		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration	LT					TR		
Upstream Signal		0			0			
Minor Street	Westbound			Eastbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume	0	0	0	59	0	1		
Peak-Hour Factor, PHF	1.00	1.00	1.00	0.93	1.00	0.93		
Hourly Flow Rate, HFR	0	0	0	63	0	1		
Percent Heavy Vehicles	0	0	0	10	0	10		
Percent Grade (%)	0			0				
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	0	0	0	0	0		
Configuration					LR			
Delay, Queue Length, and Level of Service								
Approach	NB	SB	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	LT						LR	
v (vph)	5						64	
C (m) (vph)	1450						650	
v/c	0.00						0.10	
95% queue length	0.01						0.33	
Control Delay	7.5						11.1	
LOS	A						B	
Approach Delay	-	-					11.1	
Approach LOS	-	-					B	

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TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	JAG			Intersection	Jefferson Court/Curry Street			
Agency/Co.	TMA			Jurisdiction	Town of Yorktown			
Date Performed	11/2/03			Analysis Year	Existing Condition			
Analysis Time Period	AM Peak Hour							
Project Description Yorktown Farms								
East/West Street: Jefferson Court				North/South Street: Curry Street				
Intersection Orientation: North-South				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Northbound			Southbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume	0	85	1	1	51	0		
Peak-Hour Factor, PHF	1.00	0.86	0.86	0.76	0.76	1.00		
Hourly Flow Rate, HFR	0	98	1	1	67	0		
Percent Heavy Vehicles	0	-	-	0	-	-		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration			TR	LT				
Upstream Signal		0			0			
Minor Street	Westbound			Eastbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume	1	0	9	0	0	0		
Peak-Hour Factor, PHF	0.63	1.00	0.63	1.00	1.00	1.00		
Hourly Flow Rate, HFR	1	0	14	0	0	0		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)	-6			0				
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	0	0	0	0	0		
Configuration		LR						
Delay, Queue Length, and Level of Service								
Approach	NB	SB	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration		LT		LR				
v (vph)		1		15				
C (m) (vph)		1507		954				
v/c		0.00		0.02				
95% queue length		0.00		0.05				
Control Delay		7.4		8.8				
LOS		A		A				
Approach Delay	-	-	8.8					
Approach LOS	-	-	A					

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HCS2000™ DETAILED REPORT												
General Information						Site Information						
Analyst	JAG					Intersection	US Route 6/Curry Street					
Agency or Co.	TMA					Area Type	All other areas					
Date Performed	9/9/04					Jurisdiction	Town of Yorktown					
Time Period	AM Peak Hour					Analysis Year	Existing Condition					
						Project ID	Yorktown Farms					
Volume and Timing Input												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Number of lanes, N_i	1	2	0	1	2	0	0	1	0	0	1	0
Lane group	L	TR		L	TR			LTR			LTR	
Volume, V (vph)	5	599	48	50	492	45	71	50	99	83	49	2
% Heavy vehicles, %HV	4	4	4	8	8	8	4	4	4	7	7	7
Peak-hour factor, PHF	0.95	0.95	0.95	0.89	0.89	0.89	0.85	0.85	0.85	0.87	0.87	0.87
Pretimed (P) or actuated (A)	A	A	A	A	A	A	A	A	A	A	A	A
Start-up lost time, l_i	2.0	2.0		2.0	2.0			2.0			2.0	
Extension of effective green, e	2.0	2.0		2.0	2.0			2.0			2.0	
Arrival type, AT	3	3		3	3			3			3	
Unit extension, UE	3.0	3.0		3.0	3.0			3.0			3.0	
Filtering/metering, I	1.000	1.000		1.000	1.000			1.000			1.000	
Initial unmet demand, Q_b	0.0	0.0		0.0	0.0			0.0			0.0	
Ped / Bike / RTOR volumes	0		0	0		0	0		0	0		0
Lane width	12.0	12.0		12.0	12.0			16.0			14.0	
Parking / Grade / Parking	N	7	N	N	-4	N	N	-3	N	N	6	N
Parking maneuvers, N_m												
Buses stopping, N_B	0	0		0	0			0			0	
Min. time for pedestrians, G_p	3.2			3.2			3.2			3.2		
Phasing	EW Perm	WB Only	03	04	NS Perm	06	07	08				
Timing	G = 32.0	G = 5.0	G =	G =	G = 18.0	G =	G =	G =	G =			
	Y = 5	Y = 5	Y =	Y =	Y = 5	Y =	Y =	Y =	Y =			
Duration of Analysis, T = 0.25						Cycle Length, C = 70.0						
Lane Group Capacity, Control Delay, and LOS Determination												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Adjusted flow rate, v	5	682		56	604			259			153	
Lane group capacity, c	331	1514		521	2020			434			292	
v/c ratio, X	0.02	0.45		0.11	0.30			0.60			0.52	
Total green ratio, g/C	0.46	0.46		0.60	0.60			0.26			0.26	
Uniform delay, d_1	10.4	13.0		8.2	6.8			22.8			22.3	
Progression factor, PF	1.000	1.000		1.000	1.000			1.000			1.000	
Delay calibration, k	0.11	0.11		0.11	0.11			0.19			0.13	
Incremental delay, d_2	0.0	0.2		0.1	0.1			2.2			1.7	
Initial queue delay, d_3												
Control delay	10.4	13.2		8.3	6.9			25.1			24.1	
Lane group LOS	B	B		A	A			C			C	
Approach delay	13.2			7.0			25.1			24.1		
Approach LOS	B			A			C			C		
Intersection delay	13.6			$X_c = 0.00$			Intersection LOS			B		

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	JAG			Intersection	US Route 6/Windsor Road			
Agency/Co.	TMA			Jurisdiction	Town of Southeast			
Date Performed	10/26/03			Analysis Year	Existing Condition			
Analysis Time Period	PM Peak Hour							
Project Description <i>Yorktown Farms</i>								
East/West Street: <i>US Route 6</i>				North/South Street: <i>Windsor Road</i>				
Intersection Orientation: <i>East-West</i>				Study Period (hrs): <i>0.25</i>				
Vehicle Volumes and Adjustments								
Major Street	Eastbound			Westbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)	3	759	0	0	781	2		
Peak-hour factor, PHF	0.95	0.95	1.00	1.00	0.90	0.90		
Hourly Flow Rate (veh/h)	3	798	0	0	867	2		
Proportion of heavy vehicles, P _{HV}	0	--	--	0	--	--		
Median type	Undivided							
RT Channelized?			0			0		
Lanes	0	1	0	0	1	0		
Configuration	LT					TR		
Upstream Signal		0			0			
Minor Street	Northbound			Southbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)	0	0	0	6	0	7		
Peak-hour factor, PHF	1.00	1.00	1.00	0.36	1.00	0.36		
Hourly Flow Rate (veh/h)	0	0	0	16	0	19		
Proportion of heavy vehicles, P _{HV}	0	0	0	0	0	0		
Percent grade (%)	0			5				
Flared approach		N			N			
Storage		0			0			
RT Channelized?			0			0		
Lanes	0	0	0	0	0	0		
Configuration					LR			
Control Delay, Queue Length, Level of Service								
Approach	EB	WB	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	LT						LR	
Volume, v (vph)	3						35	
Capacity, c _m (vph)	784						171	
v/c ratio	0.00						0.20	
Queue length (95%)	0.01						0.74	
Control Delay (s/veh)	9.6						31.4	
LOS	A						D	
Approach delay (s/veh)	--	--					31.4	
Approach LOS	--	--					D	

TWO-WAY STOP CONTROL SUMMARY								
General Information					Site Information			
Analyst	JAG				Intersection	Gay Ridge Road/ Curry Street		
Agency/Co.	TMA				Jurisdiction	Town of Yorktown		
Date Performed	10/26/03				Analysis Year	Existing Condition		
Analysis Time Period	PM Peak Hour							
Project Description Yorktown Farms								
East/West Street: Gay Ridge Road					North/South Street: Curry Street			
Intersection Orientation: North-South					Study Period (hrs): 0.25			
Vehicle Volumes and Adjustments								
Major Street		Northbound			Southbound			
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume	0	226	3	9	238	0		
Peak-Hour Factor, PHF	1.00	0.79	0.79	0.96	0.96	1.00		
Hourly Flow Rate, HFR	0	286	3	9	247	0		
Percent Heavy Vehicles	0	-	-	0	-	-		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration			TR	LT				
Upstream Signal		0			0			
Minor Street		Westbound			Eastbound			
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume	3	0	8	0	0	0		
Peak-Hour Factor, PHF	0.55	1.00	0.55	1.00	1.00	1.00		
Hourly Flow Rate, HFR	5	0	14	0	0	0		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)		-5			0			
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	0	0	0	0	0		
Configuration		LR						
Delay, Queue Length, and Level of Service								
Approach	NB	SB	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration		LT		LR				
v (vph)		9		19				
C (m) (vph)		1284		664				
v/c		0.01		0.03				
95% queue length		0.02		0.09				
Control Delay		7.8		10.6				
LOS		A		B				
Approach Delay	-	-	10.6					
Approach LOS	-	-	B					

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TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	JAG			Intersection	Gomer Street/Curry Street			
Agency/Co.	TMA			Jurisdiction	Town of Yorktown			
Date Performed	10/29/03			Analysis Year	Existing Condition			
Analysis Time Period	PM Peak Hour							
Project Description <i>Yorktown Farms</i>								
East/West Street: <i>Gomer Street</i>				North/South Street: <i>Curry Street</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	6	122	0	0	145	96		
Peak-Hour Factor, PHF	0.73	0.73	1.00	1.00	0.94	0.94		
Hourly Flow Rate, HFR	8	167	0	0	154	102		
Percent Heavy Vehicles	0	-	-	0	-	-		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration	LT					TR		
Upstream Signal		0			0			
Minor Street	Westbound			Eastbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume	0	0	0	107	0	7		
Peak-Hour Factor, PHF	1.00	1.00	1.00	0.78	1.00	0.78		
Hourly Flow Rate, HFR	0	0	0	137	0	8		
Percent Heavy Vehicles	0	0	0	4	0	4		
Percent Grade (%)	0			0				
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	0	0	0	0	0		
Configuration					LR			
Delay, Queue Length, and Level of Service								
Approach	NB	SB	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	LT						LR	
v (vph)	8						145	
C (m) (vph)	1321						617	
v/c	0.01						0.24	
95% queue length	0.02						0.91	
Control Delay	7.7						12.6	
LOS	A						B	
Approach Delay	-	-					12.6	
Approach LOS	-	-					B	

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TWO-WAY STOP CONTROL SUMMARY							
General Information				Site Information			
Analyst	JAG			Intersection	Jefferson Court/Curry Street		
Agency/Co.	TMA			Jurisdiction	Town of Yorktown		
Date Performed	11/2/03			Analysis Year	Existing Condition		
Analysis Time Period	PM Peak Hour						
Project Description Yorktown Farms							
East/West Street: Jefferson Court				North/South Street: Curry Street			
Intersection Orientation: North-South				Study Period (hrs): 0.25			
Vehicle Volumes and Adjustments							
Major Street	Northbound			Southbound			
Movement	1	2	3	4	5	6	
	L	T	R	L	T	R	
Volume	0	86	6	6	107	0	
Peak-Hour Factor, PHF	1.00	0.62	0.62	0.94	0.94	1.00	
Hourly Flow Rate, HFR	0	138	9	6	113	0	
Percent Heavy Vehicles	0	-	-	0	-	-	
Median Type	Undivided						
RT Channelized			0				0
Lanes	0	1	0	0	1	0	
Configuration			TR	LT			
Upstream Signal		0			0		
Minor Street	Westbound			Eastbound			
Movement	7	8	9	10	11	12	
	L	T	R	L	T	R	
Volume	1	0	9	0	0	0	
Peak-Hour Factor, PHF	0.63	1.00	0.63	1.00	1.00	1.00	
Hourly Flow Rate, HFR	1	0	14	0	0	0	
Percent Heavy Vehicles	20	0	20	0	0	0	
Percent Grade (%)	-6			0			
Flared Approach		N			N		
Storage		0			0		
RT Channelized			0			0	
Lanes	0	0	0	0	0	0	
Configuration		LR					
Delay, Queue Length, and Level of Service							
Approach	NB	SB	Westbound			Eastbound	
Movement	1	4	7	8	9	10	11
Lane Configuration		LT		LR			
v (vph)		6		15			
C (m) (vph)		1447		845			
v/c		0.00		0.02			
95% queue length		0.01		0.05			
Control Delay		7.5		9.3			
LOS		A		A			
Approach Delay	-	-	9.3				
Approach LOS	-	-	A				

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HCS2000™ DETAILED REPORT

General Information				Site Information			
Analyst	JAG	Intersection	US Route 6/Curry Street				
Agency or Co.	TMA	Area Type	All other areas				
Date Performed	11/2/03	Jurisdiction	Town of Yorktown				
Time Period	PM Peak Hour	Analysis Year	Existing Condition				
		Project ID	Yorktown Farms				

Volume and Timing Input												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Number of lanes, N _i	1	2	0	1	2	0	0	1	0	0	1	0
Lane group	L	TR		L	TR			LTR			LTR	
Volume, V (vph)	23	681	117	78	635	83	79	58	64	42	57	10
% Heavy vehicles, %HV	2	2	2	1	1	1	3	3	3	3	3	3
Peak-hour factor, PHF	0.92	0.92	0.92	0.94	0.94	0.94	0.88	0.88	0.88	0.65	0.65	0.65
Pretimed (P) or actuated (A)	A	A	A	A	A	A	A	A	A	A	A	A
Start-up lost time, I ₁	2.0	2.0		2.0	2.0			2.0			2.0	
Extension of effective green, e	2.0	2.0		2.0	2.0			2.0			2.0	
Arrival type, AT	3	3		3	3			3			3	
Unit extension, UE	3.0	3.0		3.0	3.0			3.0			3.0	
Filtering/metering, I	1.000	1.000		1.000	1.000			1.000			1.000	
Initial unmet demand, Q _b	0.0	0.0		0.0	0.0			0.0			0.0	
Ped / Bike / RTOR volumes	0		0	0		0	0		0	0		0
Lane width	12.0	12.0		12.0	12.0			16.0			14.0	
Parking / Grade / Parking	N	7	N	N	-4	N	N	-3	N	N	6	N
Parking maneuvers, N _m												
Buses stopping, N _B	0	0		0	0			0			0	
Min. time for pedestrians, G _p	3.2			3.2			3.2			3.2		
Phasing	EW Perm	WB Only	03	04	NS Perm	06	07	08				
Timing	G = 32.0	G = 5.0	G =	G =	G = 18.0	G =	G =	G =				
	Y = 5	Y = 5	Y =	Y =	Y = 5	Y =	Y =	Y =				
Duration of Analysis, T = 0.25						Cycle Length, C = 70.0						

Lane Group Capacity, Control Delay, and LOS Determination												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Adjusted flow rate, v	25	867		83	764			229			168	
Lane group capacity, c	269	1527		476	2150			422			386	
v/c ratio, X	0.09	0.57		0.17	0.36			0.54			0.44	
Total green ratio, g/C	0.46	0.46		0.60	0.60			0.26			0.26	
Uniform delay, d ₁	10.8	13.9		10.6	7.1			22.4			21.7	
Progression factor, PF	1.000	1.000		1.000	1.000			1.000			1.000	
Delay calibration, k	0.11	0.16		0.11	0.11			0.14			0.11	
Incremental delay, d ₂	0.2	0.5		0.2	0.1			1.4			0.8	
Initial queue delay, d ₃												
Control delay	10.9	14.4		10.8	7.2			23.9			22.5	
Lane group LOS	B	B		B	A			C			C	
Approach delay	14.3			7.6			23.9			22.5		
Approach LOS	B			A			C			C		
Intersection delay	13.3			X _c = 0.00			Intersection LOS			B		

TWO-WAY STOP CONTROL SUMMARY							
General Information				Site Information			
Analyst	JAG			Intersection	US Route 6/ Windsor Road		
Agency/Co.	TMA			Jurisdiction	Town of Somers		
Date Performed	9/09/04			Analysis Year	No Build Condition		
Analysis Time Period	AM Peak Hour						
Project Description Yorktown Farms							
East/West Street: US Route 6				North/South Street: Windsor Road (west)			
Intersection Orientation: East-West				Study Period (hrs): 0.25			
Vehicle Volumes and Adjustments							
Major Street	Eastbound			Westbound			
Movement	1	2	3	4	5	6	
	L	T	R	L	T	R	
Volume (veh/h)	20	879	0	0	727	12	
Peak-hour factor, PHF	0.90	0.90	1.00	1.00	0.91	0.91	
Hourly Flow Rate (veh/h)	22	976	0	0	798	13	
Proportion of heavy vehicles, P _{HV}	5	--	--	0	--	--	
Median type	Undivided						
RT Channelized?			0			0	
Lanes	0	1	0	0	1	0	
Configuration	LT					TR	
Upstream Signal		0			0		
Minor Street	Northbound			Southbound			
Movement	7	8	9	10	11	12	
	L	T	R	L	T	R	
Volume (veh/h)	0	0	0	8	0	24	
Peak-hour factor, PHF	1.00	1.00	1.00	0.75	1.00	0.75	
Hourly Flow Rate (veh/h)	0	0	0	10	0	32	
Proportion of heavy vehicles, P _{HV}	0	0	0	0	0	0	
Percent grade (%)	0			5			
Flared approach		N			N		
Storage		0			0		
RT Channelized?			0			0	
Lanes	0	0	0	0	0	0	
Configuration					LR		
Control Delay, Queue Length, Level of Service							
Approach	EB	WB	Northbound			Southbound	
Movement	1	4	7	8	9	10	11 12
Lane Configuration	LT						LR
Volume, v (vph)	22					42	
Capacity, c _m (vph)	802					207	
v/c ratio	0.03					0.20	
Queue length (95%)	0.08					0.74	
Control Delay (s/veh)	9.6					26.8	
LOS	A					D	
Approach delay (s/veh)	--	--				26.8	
Approach LOS	--	--				D	

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	JAG			Intersection	Gay Ridge Road/ Curry Street			
Agency/Co.	TMA			Jurisdiction	Town of Yorktown			
Date Performed	9/9/04			Analysis Year	No Build Condition			
Analysis Time Period	AM Peak Hour							
Project Description Yorktown Farms								
East/West Street: Gay Ridge Road				North/South Street: Curry Street				
Intersection Orientation: North-South				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Northbound			Southbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume	0	257	0	2	169	0		
Peak-Hour Factor, PHF	1.00	0.87	0.87	0.97	0.97	1.00		
Hourly Flow Rate, HFR	0	295	0	2	174	0		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration			TR	LT				
Upstream Signal		0			0			
Minor Street	Westbound			Eastbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume	0	0	6	0	0	0		
Peak-Hour Factor, PHF	0.42	1.00	0.42	1.00	1.00	1.00		
Hourly Flow Rate, HFR	0	0	14	0	0	0		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)	-5			0				
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	0	0	0	0	0		
Configuration		LR						
Delay, Queue Length, and Level of Service								
Approach	NB	SB	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration		LT		LR				
v (vph)		2		14				
C (m) (vph)		1278		749				
v/c		0.00		0.02				
95% queue length		0.00		0.06				
Control Delay		7.8		9.9				
LOS		A		A				
Approach Delay	--	--		9.9				
Approach LOS	--	--		A				

TWO-WAY STOP CONTROL SUMMARY							
General Information				Site Information			
Analyst	JAG			Intersection	Gomer Street/Curry Street		
Agency/Co.	TMA			Jurisdiction	Town of Yorktown		
Date Performed	9/09/04			Analysis Year	No Build Condition		
Analysis Time Period	AM Peak Hour						
Project Description Yorktown Farms							
East/West Street: Gomer Street				North/South Street: Curry Street			
Intersection Orientation: North-South				Study Period (hrs): 0.25			
Vehicle Volumes and Adjustments							
Major Street	Northbound			Southbound			
Movement	1	2	3	4	5	6	
	L	T	R	L	T	R	
Volume	4	187	0	0	62	107	
Peak-Hour Factor, PHF	0.70	0.70	1.00	1.00	0.99	0.99	
Hourly Flow Rate, HFR	5	267	0	0	62	108	
Percent Heavy Vehicles	0	--	--	0	--	--	
Median Type	Undivided						
RT Channelized			0			0	
Lanes	0	1	0	0	1	0	
Configuration	LT					TR	
Upstream Signal		0			0		
Minor Street	Westbound			Eastbound			
Movement	7	8	9	10	11	12	
	L	T	R	L	T	R	
Volume	0	0	0	70	0	1	
Peak-Hour Factor, PHF	1.00	1.00	1.00	0.93	1.00	0.93	
Hourly Flow Rate, HFR	0	0	0	75	0	1	
Percent Heavy Vehicles	0	0	0	10	0	10	
Percent Grade (%)	0			0			
Flared Approach		N			N		
Storage		0			0		
RT Channelized			0			0	
Lanes	0	0	0	0	0	0	
Configuration					LR		
Delay, Queue Length, and Level of Service							
Approach	NB	SB	Westbound			Eastbound	
Movement	1	4	7	8	9	10	11 12
Lane Configuration	LT						LR
v (vph)	5						76
C (m) (vph)	1420						597
v/c	0.00						0.13
95% queue length	0.01						0.43
Control Delay	7.5						11.9
LOS	A						B
Approach Delay	--	--					11.9
Approach LOS	--	--					B

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TWO-WAY STOP CONTROL SUMMARY							
General Information				Site Information			
Analyst	JAG			Intersection	Jefferson Court/Curry Street		
Agency/Co.	TMA			Jurisdiction	Town of Yorktown		
Date Performed	9/09/04			Analysis Year	No Build Condition		
Analysis Time Period	AM Peak Hour						
Project Description Yorktown Farms							
East/West Street: Jefferson Court				North/South Street: Curry Street			
Intersection Orientation: North-South				Study Period (hrs): 0.25			
Vehicle Volumes and Adjustments							
Major Street	Northbound			Southbound			
Movement	1	2	3	4	5	6	
	L	T	R	L	T	R	
Volume	0	109	1	1	61	0	
Peak-Hour Factor, PHF	1.00	0.86	0.86	0.76	0.76	1.00	
Hourly Flow Rate, HFR	0	126	1	1	80	0	
Percent Heavy Vehicles	0	--	--	0	--	--	
Median Type	Undivided						
RT Channelized			0			0	
Lanes	0	1	0	0	1	0	
Configuration			TR	LT			
Upstream Signal		0			0		
Minor Street	Westbound			Eastbound			
Movement	7	8	9	10	11	12	
	L	T	R	L	T	R	
Volume	1	0	10	0	0	0	
Peak-Hour Factor, PHF	0.63	1.00	0.63	1.00	1.00	1.00	
Hourly Flow Rate, HFR	1	0	15	0	0	0	
Percent Heavy Vehicles	0	0	0	0	0	0	
Percent Grade (%)	-6			0			
Flared Approach		N			N		
Storage		0			0		
RT Channelized			0			0	
Lanes	0	0	0	0	0	0	
Configuration		LR					
Delay, Queue Length, and Level of Service							
Approach	NB	SB	Westbound			Eastbound	
Movement	1	4	7	8	9	10	11
Lane Configuration		LT		LR			
v (vph)		1		16			
C (m) (vph)		1472		919			
v/c		0.00		0.02			
95% queue length		0.00		0.05			
Control Delay		7.4		9.0			
LOS		A		A			
Approach Delay	--	--	9.0				
Approach LOS	--	--	A				

HCS2000™ DETAILED REPORT

General Information				Site Information			
Analyst	JAG			Intersection	US Route 6/Curry Street		
Agency or Co.	TMA			Area Type	All other areas		
Date Performed	9/09/04			Jurisdiction	Town of Yorktown		
Time Period	AM Peak Hour			Analysis Year	No Build Condition		
				Project ID	Yorktown Farms		

Volume and Timing Input												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Number of lanes, N_i	1	2	0	1	2	0	0	1	0	0	1	0
Lane group	L	TR		L	TR			LTR			LTR	
Volume, V (vph)	6	738	53	64	585	61	79	55	129	117	54	2
% Heavy vehicles, %HV	4	4	4	8	8	8	4	4	4	7	7	7
Peak-hour factor, PHF	0.95	0.95	0.95	0.89	0.89	0.89	0.85	0.85	0.85	0.87	0.87	0.87
Pretimed (P) or actuated (A)	A	A	A	A	A	A	A	A	A	A	A	A
Start-up lost time, l_i	2.0	2.0		2.0	2.0			2.0			2.0	
Extension of effective green, e	2.0	2.0		2.0	2.0			2.0			2.0	
Arrival type, AT	3	3		3	3			3			3	
Unit extension, UE	3.0	3.0		3.0	3.0			3.0			3.0	
Filtering/metering, l	1.000	1.000		1.000	1.000			1.000			1.000	
Initial unmet demand, Q_b	0.0	0.0		0.0	0.0			0.0			0.0	
Ped / Bike / RTOR volumes	0		0	0		0	0		0	0		0
Lane width	12.0	12.0		12.0	12.0			16.0			14.0	
Parking / Grade / Parking	N	7	N	N	-4	N	N	-3	N	N	6	N
Parking maneuvers, N_m												
Buses stopping, N_B	0	0		0	0			0			0	
Min. time for pedestrians, G_p	3.2			3.2			3.2			3.2		
Phasing	EW Perm	WB Only	03	04	NS Perm	06	07	08				
Timing	G = 32.0	G = 5.0	G =	G =	G = 18.0	G =	G =	G =				
	Y = 5	Y = 5	Y =	Y =	Y = 5	Y =	Y =	Y =				
Duration of Analysis, $T = 0.25$							Cycle Length, $C = 70.0$					

Lane Group Capacity, Control Delay, and LOS Determination												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Adjusted flow rate, v	6	833		72	726			310			198	
Lane group capacity, c	279	1516		459	2017			428			256	
v/c ratio, X	0.02	0.55		0.16	0.36			0.72			0.77	
Total green ratio, g/C	0.46	0.46		0.60	0.60			0.26			0.26	
Uniform delay, d_1	10.4	13.8		10.1	7.1			23.7			24.1	
Progression factor, PF	1.000	1.000		1.000	1.000			1.000			1.000	
Delay calibration, k	0.11	0.15		0.11	0.11			0.28			0.32	
Incremental delay, d_2	0.0	0.4		0.2	0.1			6.0			13.7	
Initial queue delay, d_3												
Control delay	10.4	14.2		10.2	7.3			29.7			37.8	
Lane group LOS	B	B		B	A			C			D	
Approach delay	14.2			7.5			29.7			37.8		
Approach LOS	B			A			C			D		
Intersection delay	16.1			$X_c = 0.00$			Intersection LOS			B		

TWO-WAY STOP CONTROL SUMMARY							
General Information				Site Information			
Analyst	JAG			Intersection	US Route 6/Windsor Road		
Agency/Co.	TMA			Jurisdiction	Town of Southeast		
Date Performed	9/09/04			Analysis Year	No Build Condition		
Analysis Time Period	PM Peak Hour						
Project Description Yorktown Farms							
East/West Street: US Route 6				North/South Street: Windsor Road			
Intersection Orientation: East-West				Study Period (hrs): 0.25			
Vehicle Volumes and Adjustments							
Major Street	Eastbound			Westbound			
Movement	1	2	3	4	5	6	
	L	T	R	L	T	R	
Volume (veh/h)	19	968	0	0	949	2	
Peak-hour factor, PHF	0.95	0.95	1.00	1.00	0.90	0.90	
Hourly Flow Rate (veh/h)	20	1018	0	0	1054	2	
Proportion of heavy vehicles, P _{HV}	0	--	--	0	--	--	
Median type	Undivided						
RT Channelized?			0			0	
Lanes	0	1	0	0	1	0	
Configuration	LT			TR			
Upstream Signal		0			0		
Minor Street	Northbound			Southbound			
Movement	7	8	9	10	11	12	
	L	T	R	L	T	R	
Volume (veh/h)	0	0	0	7	0	17	
Peak-hour factor, PHF	1.00	1.00	1.00	0.36	1.00	0.36	
Hourly Flow Rate (veh/h)	0	0	0	19	0	47	
Proportion of heavy vehicles, P _{HV}	0	0	0	0	0	0	
Percent grade (%)	0			5			
Flared approach		N			N		
Storage		0			0		
RT Channelized?			0			0	
Lanes	0	0	0	0	0	0	
Configuration				LR			
Control Delay, Queue Length, Level of Service							
Approach	EB	WB	Northbound			Southbound	
Movement	1	4	7	8	9	10	11
Lane Configuration	LT					LR	
Volume, v (vph)	20					66	
Capacity, c _m (vph)	667					126	
v/c ratio	0.03					0.52	
Queue length (95%)	0.09					2.48	
Control Delay (s/veh)	10.6					61.4	
LOS	B					F	
Approach delay (s/veh)	--	--				61.4	
Approach LOS	--	--				F	

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	JAG			Intersection	Gay Ridge Road/ Curry Street			
Agency/Co.	TMA			Jurisdiction	Town of Yorktown			
Date Performed	9/09/04			Analysis Year	No Build Condition			
Analysis Time Period	PM Peak Hour							
Project Description Yorktown Farms								
East/West Street: Gay Ridge Road				North/South Street: Curry Street				
Intersection Orientation: North-South				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Northbound			Southbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume	0	273	3	10	295	0		
Peak-Hour Factor, PHF	1.00	0.79	0.79	0.96	0.96	1.00		
Hourly Flow Rate, HFR	0	345	3	10	307	0		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration			TR	LT				
Upstream Signal		0			0			
Minor Street	Westbound			Eastbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume	3	0	9	0	0	0		
Peak-Hour Factor, PHF	0.55	1.00	0.55	1.00	1.00	1.00		
Hourly Flow Rate, HFR	5	0	16	0	0	0		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)	-5			0				
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	0	0	0	0	0		
Configuration		LR						
Delay, Queue Length, and Level of Service								
Approach	NB	SB	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration		LT		LR				
v (vph)		10		21				
C (m) (vph)		1222		606				
v/c		0.01		0.03				
95% queue length		0.02		0.11				
Control Delay		8.0		11.2				
LOS		A		B				
Approach Delay	--	--	11.2					
Approach LOS	--	--	B					

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	JAG			Intersection	Gomer Street/Curry Street			
Agency/Co.	TMA			Jurisdiction	Town of Yorktown			
Date Performed	9/09/04			Analysis Year	No Build Condition			
Analysis Time Period	PM Peak Hour							
Project Description Yorktown Farms								
East/West Street: Gomer Street				North/South Street: Curry Street				
Intersection Orientation: North-South				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Northbound			Southbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume	7	149	0	0	170	118		
Peak-Hour Factor, PHF	0.73	0.73	1.00	1.00	0.94	0.94		
Hourly Flow Rate, HFR	9	204	0	0	180	125		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration	LT					TR		
Upstream Signal		0			0			
Minor Street	Westbound			Eastbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume	0	0	0	127	0	8		
Peak-Hour Factor, PHF	1.00	1.00	1.00	0.78	1.00	0.78		
Hourly Flow Rate, HFR	0	0	0	162	0	10		
Percent Heavy Vehicles	0	0	0	4	0	4		
Percent Grade (%)	0			0				
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	0	0	0	0	0		
Configuration					LR			
Delay, Queue Length, and Level of Service								
Approach	NB	SB	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	LT						LR	
v (vph)	9						172	
C (m) (vph)	1267						559	
v/c	0.01						0.31	
95% queue length	0.02						1.30	
Control Delay	7.9						14.3	
LOS	A						B	
Approach Delay	--	--					14.3	
Approach LOS	--	--					B	

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TWO-WAY STOP CONTROL SUMMARY							
General Information				Site Information			
Analyst	JAG			Intersection	Jefferson Court/Curry Street		
Agency/Co.	TMA			Jurisdiction	Town of Yorktown		
Date Performed	9/9/04			Analysis Year	No Build Condition		
Analysis Time Period	PM Peak Hour						
Project Description Yorktown Farms							
East/West Street: Jefferson Court				North/South Street: Curry Street			
Intersection Orientation: North-South				Study Period (hrs): 0.25			
Vehicle Volumes and Adjustments							
Major Street	Northbound			Southbound			
Movement	1	2	3	4	5	6	
	L	T	R	L	T	R	
Volume	0	109	7	7	138	0	
Peak-Hour Factor, PHF	1.00	0.62	0.62	0.94	0.94	1.00	
Hourly Flow Rate, HFR	0	175	11	7	146	0	
Percent Heavy Vehicles	0	--	--	0	--	--	
Median Type	Undivided						
RT Channelized			0			0	
Lanes	0	1	0	0	1	0	
Configuration			TR	LT			
Upstream Signal		0			0		
Minor Street	Westbound			Eastbound			
Movement	7	8	9	10	11	12	
	L	T	R	L	T	R	
Volume	1	0	10	0	0	0	
Peak-Hour Factor, PHF	0.63	1.00	0.63	1.00	1.00	1.00	
Hourly Flow Rate, HFR	1	0	15	0	0	0	
Percent Heavy Vehicles	20	0	20	0	0	0	
Percent Grade (%)	-6			0			
Flared Approach		N			N		
Storage		0			0		
RT Channelized			0			0	
Lanes	0	0	0	0	0	0	
Configuration		LR					
Delay, Queue Length, and Level of Service							
Approach	NB	SB	Westbound			Eastbound	
Movement	1	4	7	8	9	10	11
Lane Configuration		LT		LR			
v (vph)		7		16			
C (m) (vph)		1401		803			
v/c		0.00		0.02			
95% queue length		0.02		0.06			
Control Delay		7.6		9.6			
LOS		A		A			
Approach Delay	--	--	9.6				
Approach LOS	--	--	A				

HCS2000™ DETAILED REPORT												
General Information						Site Information						
Analyst	JAG					Intersection	US Route 6/Curry Street					
Agency or Co.	TMA					Area Type	All other areas					
Date Performed	9/09/04					Jurisdiction	Town of Yorktown					
Time Period	PM Peak Hour					Analysis Year	No Build Condition					
						Project ID	Yorktown Farms					
Volume and Timing Input												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Number of lanes, N _l	1	2	0	1	2	0	0	1	0	0	1	0
Lane group	L	TR		L	TR			LTR			LTR	
Volume, V (vph)	25	854	129	118	835	129	87	64	94	72	63	11
% Heavy vehicles, %HV	2	2	2	1	1	1	3	3	3	3	3	3
Peak-hour factor, PHF	0.92	0.92	0.92	0.94	0.94	0.94	0.88	0.88	0.88	0.65	0.65	0.65
Pretimed (P) or actuated (A)	A	A	A	A	A	A	A	A	A	A	A	A
Start-up lost time, I ₁	2.0	2.0		2.0	2.0			2.0			2.0	
Extension of effective green, e	2.0	2.0		2.0	2.0			2.0			2.0	
Arrival type, AT	3	3		3	3			3			3	
Unit extension, UE	3.0	3.0		3.0	3.0			3.0			3.0	
Filtering/metering, I	1.000	1.000		1.000	1.000			1.000			1.000	
Initial unmet demand, Q _b	0.0	0.0		0.0	0.0			0.0			0.0	
Ped / Bike / RTOR volumes	0		0	0		0	0		0	0		0
Lane width	12.0	12.0		12.0	12.0			16.0			14.0	
Parking / Grade / Parking	N	7	N	N	-4	N	N	-3	N	N	6	N
Parking maneuvers, N _m												
Buses stopping, N _B	0	0		0	0			0			0	
Min. time for pedestrians, G _p	3.2			3.2			3.2			3.2		
Phasing	EW Perm	WB Only	03	04	NS Perm	06	07	08				
Timing	G = 32.0	G = 5.0	G =	G =	G = 18.0	G =	G =	G =				
	Y = 5	Y = 5	Y =	Y =	Y = 5	Y =	Y =	Y =				
Duration of Analysis, T = 0.25						Cycle Length, C = 70.0						
Lane Group Capacity, Control Delay, and LOS Determination												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Adjusted flow rate, v	27	1068		126	1025			279			225	
Lane group capacity, c	180	1531		405	2144			408			320	
v/c ratio, X	0.15	0.70		0.31	0.48			0.68			0.70	
Total green ratio, g/C	0.46	0.46		0.60	0.60			0.26			0.26	
Uniform delay, d ₁	11.1	15.1		15.3	7.9			23.4			23.6	
Progression factor, PF	1.000	1.000		1.000	1.000			1.000			1.000	
Delay calibration, k	0.11	0.26		0.11	0.11			0.25			0.27	
Incremental delay, d ₂	0.4	1.4		0.4	0.2			4.7			6.8	
Initial queue delay, d ₃												
Control delay	11.5	16.6		15.8	8.0			28.1			30.4	
Lane group LOS	B	B		B	A			C			C	
Approach delay	16.4			8.9			28.1			30.4		
Approach LOS	B			A			C			C		
Intersection delay	15.6			X _c = 0.00			Intersection LOS			B		

TWO-WAY STOP CONTROL SUMMARY							
General Information				Site Information			
Analyst	JAG			Intersection	US Route 6/ Windsor Road		
Agency/Co.	TMA			Jurisdiction	Town of Somers		
Date Performed	9/09/04			Analysis Year	Build Condition		
Analysis Time Period	AM Peak Hour						
Project Description Yorktown Farms							
East/West Street: US Route 6				North/South Street: Windsor Road (west)			
Intersection Orientation: East-West				Study Period (hrs): 0.25			
Vehicle Volumes and Adjustments							
Major Street	Eastbound			Westbound			
Movement	1	2	3	4	5	6	
	L	T	R	L	T	R	
Volume (veh/h)	20	889	0	0	730	12	
Peak-hour factor, PHF	0.90	0.90	1.00	1.00	0.91	0.91	
Hourly Flow Rate (veh/h)	22	987	0	0	802	13	
Proportion of heavy vehicles, P _{HV}	5	--	--	0	--	--	
Median type	Undivided						
RT Channelized?			0			0	
Lanes	0	1	0	0	1	0	
Configuration	LT					TR	
Upstream Signal		0			0		
Minor Street	Northbound			Southbound			
Movement	7	8	9	10	11	12	
	L	T	R	L	T	R	
Volume (veh/h)	0	0	0	8	0	24	
Peak-hour factor, PHF	1.00	1.00	1.00	0.75	1.00	0.75	
Hourly Flow Rate (veh/h)	0	0	0	10	0	32	
Proportion of heavy vehicles, P _{HV}	0	0	0	0	0	0	
Percent grade (%)	0			5			
Flared approach		N			N		
Storage		0			0		
RT Channelized?			0			0	
Lanes	0	0	0	0	0	0	
Configuration					LR		
Control Delay, Queue Length, Level of Service							
Approach	EB	WB	Northbound			Southbound	
Movement	1	4	7	8	9	10	11 12
Lane Configuration	LT						LR
Volume, v (vph)	22						42
Capacity, c _m (vph)	799						205
v/c ratio	0.03						0.20
Queue length (95%)	0.08						0.75
Control Delay (s/veh)	9.6						27.0
LOS	A						D
Approach delay (s/veh)	--	--					27.0
Approach LOS	--	--					D

TWO-WAY STOP CONTROL SUMMARY							
General Information			Site Information				
Analyst	JAG		Intersection	Gay Ridge Road/ Curry Street			
Agency/Co.	TMA		Jurisdiction	Town of Yorktown			
Date Performed	9/9/04		Analysis Year	Build Condition			
Analysis Time Period	AM Peak Hour						
Project Description Yorktown Farms							
East/West Street: Gay Ridge Road			North/South Street: Curry Street				
Intersection Orientation: North-South			Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments							
Major Street	Northbound			Southbound			
Movement	1	2	3	4	5	6	
	L	T	R	L	T	R	
Volume	0	257	1	2	169	0	
Peak-Hour Factor, PHF	1.00	0.87	0.87	0.97	0.97	1.00	
Hourly Flow Rate, HFR	0	295	1	2	174	0	
Percent Heavy Vehicles	0	--	--	0	--	--	
Median Type	Undivided						
RT Channelized			0			0	
Lanes	0	1	0	0	1	0	
Configuration			TR	LT			
Upstream Signal		0			0		
Minor Street	Westbound			Eastbound			
Movement	7	8	9	10	11	12	
	L	T	R	L	T	R	
Volume	2	0	6	0	0	0	
Peak-Hour Factor, PHF	0.42	1.00	0.42	1.00	1.00	1.00	
Hourly Flow Rate, HFR	4	0	14	0	0	0	
Percent Heavy Vehicles	0	0	0	0	0	0	
Percent Grade (%)	-5			0			
Flared Approach		N			N		
Storage		0			0		
RT Channelized			0			0	
Lanes	0	0	0	0	0	0	
Configuration		LR					
Delay, Queue Length, and Level of Service							
Approach	NB	SB	Westbound			Eastbound	
Movement	1	4	7	8	9	10	11
Lane Configuration		LT		LR			
v (vph)		2		18			
C (m) (vph)		1277		693			
v/c		0.00		0.03			
95% queue length		0.00		0.08			
Control Delay		7.8		10.3			
LOS		A		B			
Approach Delay	--	--	10.3				
Approach LOS	--	--	B				

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	JAG			Intersection	Gomer Street/Curry Street			
Agency/Co.	TMA			Jurisdiction	Town of Yorktown			
Date Performed	9/09/04			Analysis Year	Build Condition			
Analysis Time Period	AM Peak Hour							
Project Description Yorktown Farms								
East/West Street: Gomer Street				North/South Street: Curry Street				
Intersection Orientation: North-South				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Northbound			Southbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume	4	188	0	0	63	108		
Peak-Hour Factor, PHF	0.70	0.70	1.00	1.00	0.99	0.99		
Hourly Flow Rate, HFR	5	268	0	0	63	109		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration	LT					TR		
Upstream Signal		0			0			
Minor Street	Westbound			Eastbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume	0	0	0	70	0	1		
Peak-Hour Factor, PHF	1.00	1.00	1.00	0.93	1.00	0.93		
Hourly Flow Rate, HFR	0	0	0	75	0	1		
Percent Heavy Vehicles	0	0	0	10	0	10		
Percent Grade (%)	0			0				
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	0	0	0	0	0		
Configuration					LR			
Delay, Queue Length, and Level of Service								
Approach	NB	SB	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	LT						LR	
v (vph)	5						76	
C (m) (vph)	1417						595	
v/c	0.00						0.13	
95% queue length	0.01						0.44	
Control Delay	7.5						11.9	
LOS	A						B	
Approach Delay	--	--					11.9	
Approach LOS	--	--					B	

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TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	JAG			Intersection	Jefferson Court/Curry Street			
Agency/Co.	TMA			Jurisdiction	Town of Yorktown			
Date Performed	9/09/04			Analysis Year	Build Condition			
Analysis Time Period	AM Peak Hour							
Project Description Yorktown Farms								
East/West Street: Jefferson Court				North/South Street: Curry Street				
Intersection Orientation: North-South				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Northbound			Southbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume	0	110	1	1	62	0		
Peak-Hour Factor, PHF	1.00	0.86	0.86	0.76	0.76	1.00		
Hourly Flow Rate, HFR	0	127	1	1	81	0		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration			TR	LT				
Upstream Signal		0			0			
Minor Street	Westbound			Eastbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume	1	0	10	0	0	0		
Peak-Hour Factor, PHF	0.63	1.00	0.63	1.00	1.00	1.00		
Hourly Flow Rate, HFR	1	0	15	0	0	0		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)	-6			0				
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	0	0	0	0	0		
Configuration		LR						
Delay, Queue Length, and Level of Service								
Approach	NB	SB	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration		LT		LR				
v (vph)		1		16				
C (m) (vph)		1470		917				
v/c		0.00		0.02				
95% queue length		0.00		0.05				
Control Delay		7.5		9.0				
LOS		A		A				
Approach Delay	--	--	9.0					
Approach LOS	--	--	A					

HCS2000™ DETAILED REPORT												
General Information						Site Information						
Analyst	JAG					Intersection	US Route 6/Curry Street					
Agency or Co.	TMA					Area Type	All other areas					
Date Performed	9/09/04					Jurisdiction	Town of Yorktown					
Time Period	AM Peak Hour					Analysis Year	Build Condition					
						Project ID	Yorktown Farms					
Volume and Timing Input												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Number of lanes, N_i	1	2	0	1	2	0	0	1	0	0	1	0
Lane group	L	TR		L	TR			LTR			LTR	
Volume, V (vph)	6	742	53	64	597	62	79	55	129	117	54	2
% Heavy vehicles, %HV	4	4	4	8	8	8	4	4	4	7	7	7
Peak-hour factor, PHF	0.95	0.95	0.95	0.89	0.89	0.89	0.85	0.85	0.85	0.87	0.87	0.87
Pretimed (P) or actuated (A)	A	A	A	A	A	A	A	A	A	A	A	A
Start-up lost time, l_i	2.0	2.0		2.0	2.0			2.0			2.0	
Extension of effective green, e	2.0	2.0		2.0	2.0			2.0			2.0	
Arrival type, AT	3	3		3	3			3			3	
Unit extension, UE	3.0	3.0		3.0	3.0			3.0			3.0	
Filtering/metering, I	1.000	1.000		1.000	1.000			1.000			1.000	
Initial unmet demand, Q_b	0.0	0.0		0.0	0.0			0.0			0.0	
Ped / Bike / RTOR volumes	0		0	0		0	0		0	0		0
Lane width	12.0	12.0		12.0	12.0			16.0			14.0	
Parking / Grade / Parking	N	7	N	N	-4	N	N	-3	N	N	6	N
Parking maneuvers, N_m												
Buses stopping, N_B	0	0		0	0			0			0	
Min. time for pedestrians, G_p	3.2			3.2			3.2			3.2		
Phasing	EW Perm	WB Only	03	04	NS Perm	06	07	08				
Timing	G = 32.0	G = 5.0	G =	G =	G = 18.0	G =	G =	G =				
	Y = 5	Y = 5	Y =	Y =	Y = 5	Y =	Y =	Y =				
Duration of Analysis, T = 0.25						Cycle Length, C = 70.0						
Lane Group Capacity, Control Delay, and LOS Determination												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Adjusted flow rate, v	6	837		72	741			310			198	
Lane group capacity, c	273	1516		457	2017			428			256	
v/c ratio, X	0.02	0.55		0.16	0.37			0.72			0.77	
Total green ratio, g/C	0.46	0.46		0.60	0.60			0.26			0.26	
Uniform delay, d_1	10.4	13.8		10.1	7.2			23.7			24.1	
Progression factor, PF	1.000	1.000		1.000	1.000			1.000			1.000	
Delay calibration, k	0.11	0.15		0.11	0.11			0.28			0.32	
Incremental delay, d_2	0.0	0.4		0.2	0.1			6.0			13.7	
Initial queue delay, d_3												
Control delay	10.5	14.2		10.3	7.3			29.7			37.8	
Lane group LOS	B	B		B	A			C			D	
Approach delay	14.2			7.6			29.7			37.8		
Approach LOS	B			A			C			D		
Intersection delay	16.1			$X_c = 0.00$			Intersection LOS			B		

TWO-WAY STOP CONTROL SUMMARY							
General Information				Site Information			
Analyst	JAG			Intersection	US Route 6/Windsor Road		
Agency/Co.	TMA			Jurisdiction	Town of Southeast		
Date Performed	9/09/04			Analysis Year	Build Condition		
Analysis Time Period	PM Peak Hour						
Project Description <i>Yorktown Farms</i>							
East/West Street: <i>US Route 6</i>				North/South Street: <i>Windsor Road</i>			
Intersection Orientation: <i>East-West</i>				Study Period (hrs): <i>0.25</i>			
Vehicle Volumes and Adjustments							
Major Street	Eastbound			Westbound			
Movement	1	2	3	4	5	6	
	L	T	R	L	T	R	
Volume (veh/h)	19	974	0	0	959	2	
Peak-hour factor, PHF	0.95	0.95	1.00	1.00	0.90	0.90	
Hourly Flow Rate (veh/h)	20	1025	0	0	1065	2	
Proportion of heavy vehicles, P _{HV}	0	–	--	0	--	--	
Median type	Undivided						
RT Channelized?			0				0
Lanes	0	1	0	0	1	0	
Configuration	LT						TR
Upstream Signal		0			0		
Minor Street	Northbound			Southbound			
Movement	7	8	9	10	11	12	
	L	T	R	L	T	R	
Volume (veh/h)	0	0	0	7	0	17	
Peak-hour factor, PHF	1.00	1.00	1.00	0.36	1.00	0.36	
Hourly Flow Rate (veh/h)	0	0	0	19	0	47	
Proportion of heavy vehicles, P _{HV}	0	0	0	0	0	0	
Percent grade (%)	0			5			
Flared approach		N			N		
Storage		0			0		
RT Channelized?			0				0
Lanes	0	0	0	0	0	0	
Configuration					LR		
Control Delay, Queue Length, Level of Service							
Approach	EB	WB	Northbound			Southbound	
Movement	1	4	7	8	9	10	11
Lane Configuration	LT						LR
Volume, v (vph)	20						66
Capacity, c _m (vph)	661						124
v/c ratio	0.03						0.53
Queue length (95%)	0.09						2.53
Control Delay (s/veh)	10.6						63.1
LOS	B						F
Approach delay (s/veh)	–	–					63.1
Approach LOS	–	–					F

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	JAG			Intersection	Gay Ridge Road/ Curry Street			
Agency/Co.	TMA			Jurisdiction	Town of Yorktown			
Date Performed	9/09/04			Analysis Year	Build Condition			
Analysis Time Period	PM Peak Hour							
Project Description Yorktown Farms								
East/West Street: Gay Ridge Road				North/South Street: Curry Street				
Intersection Orientation: North-South				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Northbound			Southbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume	0	273	6	10	295	0		
Peak-Hour Factor, PHF	1.00	0.79	0.79	0.96	0.96	1.00		
Hourly Flow Rate, HFR	0	345	7	10	307	0		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration			TR	LT				
Upstream Signal		0			0			
Minor Street	Westbound			Eastbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume	4	0	9	0	0	0		
Peak-Hour Factor, PHF	0.55	1.00	0.55	1.00	1.00	1.00		
Hourly Flow Rate, HFR	7	0	16	0	0	0		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)	-5			0				
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	0	0	0	0	0		
Configuration		LR						
Delay, Queue Length, and Level of Service								
Approach	NB	SB	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration		LT		LR				
v (vph)		10		23				
C (m) (vph)		1218		582				
v/c		0.01		0.04				
95% queue length		0.02		0.12				
Control Delay		8.0		11.4				
LOS		A		B				
Approach Delay	--	--	11.4					
Approach LOS	--	--	B					

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	JAG			Intersection	Gomer Street/Curry Street			
Agency/Co.	TMA			Jurisdiction	Town of Yorktown			
Date Performed	9/09/04			Analysis Year	Build Condition			
Analysis Time Period	PM Peak Hour							
Project Description Yorktown Farms								
East/West Street: Gomer Street				North/South Street: Curry Street				
Intersection Orientation: North-South				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street		Northbound			Southbound			
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume	7	151	0	0	171	118		
Peak-Hour Factor, PHF	0.73	0.73	1.00	1.00	0.94	0.94		
Hourly Flow Rate, HFR	9	206	0	0	181	125		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration	LT					TR		
Upstream Signal		0			0			
Minor Street		Westbound			Eastbound			
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume	0	0	0	128	0	8		
Peak-Hour Factor, PHF	1.00	1.00	1.00	0.78	1.00	0.78		
Hourly Flow Rate, HFR	0	0	0	164	0	10		
Percent Heavy Vehicles	0	0	0	4	0	4		
Percent Grade (%)	0			0				
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	0	0	0	0	0		
Configuration					LR			
Delay, Queue Length, and Level of Service								
Approach	NB	SB	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	LT						LR	
v (vph)	9						174	
C (m) (vph)	1266						556	
v/c	0.01						0.31	
95% queue length	0.02						1.33	
Control Delay	7.9						14.4	
LOS	A						B	
Approach Delay	--	--				14.4		
Approach LOS	--	--				B		

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TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	JAG			Intersection	Jefferson Court/Curry Street			
Agency/Co.	TMA			Jurisdiction	Town of Yorktown			
Date Performed	9/9/04			Analysis Year	Build Condition			
Analysis Time Period	PM Peak Hour							
Project Description Yorktown Farms								
East/West Street: Jefferson Court				North/South Street: Curry Street				
Intersection Orientation: North-South				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Northbound			Southbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume	0	111	7	7	139	0		
Peak-Hour Factor, PHF	1.00	0.62	0.62	0.94	0.94	1.00		
Hourly Flow Rate, HFR	0	179	11	7	147	0		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration			TR	LT				
Upstream Signal		0			0			
Minor Street	Westbound			Eastbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume	1	0	10	0	0	0		
Peak-Hour Factor, PHF	0.63	1.00	0.63	1.00	1.00	1.00		
Hourly Flow Rate, HFR	1	0	15	0	0	0		
Percent Heavy Vehicles	20	0	20	0	0	0		
Percent Grade (%)	-6			0				
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	0	0	0	0	0		
Configuration		LR						
Delay, Queue Length, and Level of Service								
Approach	NB	SB	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration		LT		LR				
v (vph)		7		16				
C (m) (vph)		1396		798				
v/c		0.01		0.02				
95% queue length		0.02		0.06				
Control Delay		7.6		9.6				
LOS		A		A				
Approach Delay	--	--	9.6					
Approach LOS	--	--	A					

HCS2000™ DETAILED REPORT												
General Information						Site Information						
Analyst	JAG					Intersection	US Route 6/Curry Street					
Agency or Co.	TMA					Area Type	All other areas					
Date Performed	9/9/04					Jurisdiction	Town of Yorktown					
Time Period	PM Peak Hour					Analysis Year	Build Condition					
						Project ID	Yorktown Farms					
Volume and Timing Input												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Number of lanes, N_i	1	2	0	1	2	0	0	1	0	0	1	0
Lane group	L	TR		L	TR			LTR			LTR	
Volume, V (vph)	25	866	129	118	842	130	87	64	94	73	63	11
% Heavy vehicles, %HV	2	2	2	1	1	1	3	3	3	3	3	3
Peak-hour factor, PHF	0.92	0.92	0.92	0.94	0.94	0.94	0.88	0.88	0.88	0.65	0.65	0.65
Pretimed (P) or actuated (A)	A	A	A	A	A	A	A	A	A	A	A	A
Start-up lost time, l_i	2.0	2.0		2.0	2.0			2.0			2.0	
Extension of effective green, e	2.0	2.0		2.0	2.0			2.0			2.0	
Arrival type, AT	3	3		3	3			3			3	
Unit extension, UE	3.0	3.0		3.0	3.0			3.0			3.0	
Filtering/metering, I	1.000	1.000		1.000	1.000			1.000			1.000	
Initial unmet demand, Q_b	0.0	0.0		0.0	0.0			0.0			0.0	
Ped / Bike / RTOR volumes	0		0	0		0	0		0	0		0
Lane width	12.0	12.0		12.0	12.0			16.0			14.0	
Parking / Grade / Parking	N	7	N	N	-4	N	N	-3	N	N	6	N
Parking maneuvers, N_m												
Buses stopping, N_B	0	0		0	0			0			0	
Min. time for pedestrians, G_p	3.2			3.2			3.2			3.2		
Phasing	EW Perm	WB Only	03	04	NS Perm	06	07	08				
Timing	G = 32.0	G = 5.0	G =	G =	G = 18.0	G =	G =	G =				
	Y = 5	Y = 5	Y =	Y =	Y = 5	Y =	Y =	Y =				
Duration of Analysis, T = 0.25						Cycle Length, C = 70.0						
Lane Group Capacity, Control Delay, and LOS Determination												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Adjusted flow rate, v	27	1081		126	1034			279			226	
Lane group capacity, c	177	1531		401	2144			408			320	
v/c ratio, X	0.15	0.71		0.31	0.48			0.68			0.71	
Total green ratio, g/C	0.46	0.46		0.60	0.60			0.26			0.26	
Uniform delay, d_1	11.1	15.2		15.6	7.9			23.4			23.6	
Progression factor, PF	1.000	1.000		1.000	1.000			1.000			1.000	
Delay calibration, k	0.11	0.27		0.11	0.11			0.25			0.27	
Incremental delay, d_2	0.4	1.5		0.5	0.2			4.7			7.0	
Initial queue delay, d_3												
Control delay	11.5	16.7		16.1	8.1			28.1			30.6	
Lane group LOS	B	B		B	A			C			C	
Approach delay	16.6			8.9			28.1			30.6		
Approach LOS	B			A			C			C		
Intersection delay	15.7			$X_c = 0.00$			Intersection LOS			B		

TWO-WAY STOP CONTROL SUMMARY							
General Information				Site Information			
Analyst	JAG			Intersection	US Route 6/Site Access		
Agency/Co.	TMA			Jurisdiction	Town of Yorktown		
Date Performed	9/9/04			Analysis Year	Build Condition		
Analysis Time Period	AM Peak Hour						
Project Description Yorktown Farms							
East/West Street: US Route 6				North/South Street: Site Access			
Intersection Orientation: East-West				Study Period (hrs): 0.25			
Vehicle Volumes and Adjustments							
Major Street	Eastbound			Westbound			
Movement	1	2	3	4	5	6	
	L	T	R	L	T	R	
Volume (veh/h)	0	899	4	3	751	0	
Peak-hour factor, PHF	1.00	0.90	0.90	0.91	0.91	1.00	
Hourly Flow Rate (veh/h)	0	998	4	3	825	0	
Proportion of heavy vehicles, P _{HV}	0	--	--	0	--	--	
Median type	Undivided						
RT Channelized?			0				0
Lanes	0	1	0	0	1	0	
Configuration			TR	LT			
Upstream Signal		0			0		
Minor Street	Northbound			Southbound			
Movement	7	8	9	10	11	12	
	L	T	R	L	T	R	
Volume (veh/h)	13	0	10	0	0	0	
Peak-hour factor, PHF	0.95	1.00	0.95	1.00	1.00	1.00	
Hourly Flow Rate (veh/h)	13	0	10	0	0	0	
Proportion of heavy vehicles, P _{HV}	0	0	0	0	0	0	
Percent grade (%)	-6			0			
Flared approach		N			N		
Storage		0			0		
RT Channelized?			0				0
Lanes	0	0	0	0	0	0	
Configuration		LR					
Control Delay, Queue Length, Level of Service							
Approach	EB	WB	Northbound			Southbound	
Movement	1	4	7	8	9	10	11
Lane Configuration		LT		LR			
Volume, v (vph)		3		23			
Capacity, c _m (vph)		699		123			
v/c ratio		0.00		0.19			
Queue length (95%)		0.01		0.66			
Control Delay (s/veh)		10.2		40.9			
LOS		B		E			
Approach delay (s/veh)	--	--		40.9			
Approach LOS	--	--		E			

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	JAG			Intersection	US Route 6/Site Access			
Agency/Co.	TMA			Jurisdiction	Town of Yorktown			
Date Performed	9/9/04			Analysis Year	Build Condition			
Analysis Time Period	PM Peak Hour							
Project Description Yorktown Farms								
East/West Street: US Route 6				North/South Street: Site Access				
Intersection Orientation: East-West				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Eastbound			Westbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)	0	987	13	10	966	0		
Peak-hour factor, PHF	1.00	0.95	0.95	0.90	0.90	1.00		
Hourly Flow Rate (veh/h)	0	1038	13	11	1073	0		
Proportion of heavy vehicles, P _{HV}	0	--	--	0	--	--		
Median type	Undivided							
RT Channelized?			0				0	
Lanes	0	1	0	0	1	0		
Configuration			TR	LT				
Upstream Signal		0			0			
Minor Street	Northbound			Southbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)	8	0	6	0	0	0		
Peak-hour factor, PHF	0.95	1.00	0.95	1.00	1.00	1.00		
Hourly Flow Rate (veh/h)	8	0	6	0	0	0		
Proportion of heavy vehicles, P _{HV}	0	0	0	0	0	0		
Percent grade (%)		-6			0			
Flared approach		N			N			
Storage		0			0			
RT Channelized?			0			0		
Lanes	0	0	0	0	0	0		
Configuration		LR						
Control Delay, Queue Length, Level of Service								
Approach	EB	WB	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration		LT		LR				
Volume, v (vph)		11		14				
Capacity, c _m (vph)		670		83				
v/c ratio		0.02		0.17				
Queue length (95%)		0.05		0.57				
Control Delay (s/veh)		10.5		57.0				
LOS		B		F				
Approach delay (s/veh)	--	--	57.0					
Approach LOS	--	--	F					

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	JAG			Intersection	US Route 6/Windsor Road			
Agency/Co.	TMA			Jurisdiction	Town of Southeast			
Date Performed	9/09/04			Analysis Year	Build Condition Peaking			
Analysis Time Period	PM Peak Hour							
Project Description Yorktown Farms								
East/West Street: US Route 6				North/South Street: Windsor Road				
Intersection Orientation: East-West				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Eastbound			Westbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)	19	974	0	0	959	2		
Peak-hour factor, PHF	0.95	0.95	1.00	1.00	0.90	0.90		
Hourly Flow Rate (veh/h)	20	1025	0	0	1065	2		
Proportion of heavy vehicles, P _{HV}	0	--	--	0	--	--		
Median type	Undivided							
RT Channelized?			0			0		
Lanes	0	1	0	0	1	0		
Configuration	LT					TR		
Upstream Signal		0			0			
Minor Street	Northbound			Southbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)	0	0	0	7	0	17		
Peak-hour factor, PHF	1.00	1.00	1.00	0.75	1.00	0.75		
Hourly Flow Rate (veh/h)	0	0	0	9	0	22		
Proportion of heavy vehicles, P _{HV}	0	0	0	0	0	0		
Percent grade (%)	0			5				
Flared approach		N			N			
Storage		0			0			
RT Channelized?			0			0		
Lanes	0	0	0	0	0	0		
Configuration					LR			
Control Delay, Queue Length, Level of Service								
Approach	EB	WB	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	LT						LR	
Volume, v (vph)	20						31	
Capacity, c _m (vph)	661						124	
v/c ratio	0.03						0.25	
Queue length (95%)	0.09						0.93	
Control Delay (s/veh)	10.6						43.4	
LOS	B						E	
Approach delay (s/veh)	--	--					43.4	
Approach LOS	--	--					E	

TWO-WAY STOP CONTROL SUMMARY							
General Information				Site Information			
Analyst	JAG			Intersection	US Route 6/Site Access		
Agency/Co.	TMA			Jurisdiction	Town of Yorktown		
Date Performed	9/9/04			Analysis Year	Build Condition no left exit		
Analysis Time Period	AM Peak Hour						
Project Description Yorktown Farms							
East/West Street: US Route 6				North/South Street: Site Access			
Intersection Orientation: East-West				Study Period (hrs): 0.25			
Vehicle Volumes and Adjustments							
Major Street	Eastbound			Westbound			
Movement	1	2	3	4	5	6	
	L	T	R	L	T	R	
Volume (veh/h)	0	899	4	3	751	0	
Peak-hour factor, PHF	1.00	0.90	0.90	0.91	0.91	1.00	
Hourly Flow Rate (veh/h)	0	998	4	3	825	0	
Proportion of heavy vehicles, P _{HV}	0	--	--	0	--	--	
Median type	Undivided						
RT Channelized?			0				0
Lanes	0	1	0	0	1	0	
Configuration			TR	LT			
Upstream Signal		0			0		
Minor Street	Northbound			Southbound			
Movement	7	8	9	10	11	12	
	L	T	R	L	T	R	
Volume (veh/h)	0	0	10	0	0	0	
Peak-hour factor, PHF	0.95	1.00	0.95	1.00	1.00	1.00	
Hourly Flow Rate (veh/h)	0	0	10	0	0	0	
Proportion of heavy vehicles, P _{HV}	0	0	0	0	0	0	
Percent grade (%)	-6			0			
Flared approach		N			N		
Storage		0			0		
RT Channelized?			0				0
Lanes	0	0	0	0	0	0	
Configuration		LR					
Control Delay, Queue Length, Level of Service							
Approach	EB	WB	Northbound			Southbound	
Movement	1	4	7	8	9	10	11
Lane Configuration		LT		LR			
Volume, v (vph)		3		10			
Capacity, c _m (vph)		699		298			
v/c ratio		0.00		0.03			
Queue length (95%)		0.01		0.10			
Control Delay (s/veh)		10.2		17.5			
LOS		B		C			
Approach delay (s/veh)	--	--	17.5				
Approach LOS	--	--	C				

TWO-WAY STOP CONTROL SUMMARY							
General Information				Site Information			
Analyst	JAG			Intersection	US Route 6/Site Access		
Agency/Co.	TMA			Jurisdiction	Town of Yorktown		
Date Performed	9/9/04			Analysis Year	Build Condition no left exit		
Analysis Time Period	PM Peak Hour						
Project Description Yorktown Farms							
East/West Street: US Route 6				North/South Street: Site Access			
Intersection Orientation: East-West				Study Period (hrs): 0.25			
Vehicle Volumes and Adjustments							
Major Street	Eastbound			Westbound			
Movement	1	2	3	4	5	6	
	L	T	R	L	T	R	
Volume (veh/h)	0	987	13	10	966	0	
Peak-hour factor, PHF	1.00	0.95	0.95	0.90	0.90	1.00	
Hourly Flow Rate (veh/h)	0	1038	13	11	1073	0	
Proportion of heavy vehicles, P _{HV}	0	--	--	0	--	--	
Median type	Undivided						
RT Channelized?			0			0	
Lanes	0	1	0	0	1	0	
Configuration			TR	LT			
Upstream Signal		0			0		
Minor Street	Northbound			Southbound			
Movement	7	8	9	10	11	12	
	L	T	R	L	T	R	
Volume (veh/h)	0	0	6	0	0	0	
Peak-hour factor, PHF	0.95	1.00	0.95	1.00	1.00	1.00	
Hourly Flow Rate (veh/h)	0	0	6	0	0	0	
Proportion of heavy vehicles, P _{HV}	0	0	0	0	0	0	
Percent grade (%)	-6			0			
Flared approach		N			N		
Storage		0			0		
RT Channelized?			0			0	
Lanes	0	0	0	0	0	0	
Configuration		LR					
Control Delay, Queue Length, Level of Service							
Approach	EB	WB	Northbound			Southbound	
Movement	1	4	7	8	9	10	11
Lane Configuration		LT		LR			
Volume, v (vph)		11		6			
Capacity, c _m (vph)		670		281			
v/c ratio		0.02		0.02			
Queue length (95%)		0.05		0.07			
Control Delay (s/veh)		10.5		18.1			
LOS		B		C			
Approach delay (s/veh)	--	--		18.1			
Approach LOS	--	--		C			