

*Appendix B*

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*Unsignalized Intersection  
Level of Service (LOS) Calculations*

## CHAPTER 17 - TWSC - UNSIGNALIZED INTERSECTIONS WORKSHEET

### Analysis Summary

#### General Information

#### Site Information

Analyst <u>WY</u>	Jurisdiction/Date <u>12/10/2010</u>
Agency or Company <u>AECOM</u>	Major Street <u>CONNECTOR RD</u>
Analysis Period/Year <u>PM CURR NLT 2020</u>	Minor Street <u>LINDSEY RD</u>
Comment <u>2020 PM W/CURR ZON NLT</u>	

#### Input Data

Lane Configuration	EB			WB			NB			SB		
Lane 1 (curb)	T			TR						R		
Lane 2	L									L		
Lane 3												
Movement	1 (LT)	2 (TH)	3 (RT)	4 (LT)	5 (TH)	6 (RT)	7 (LT)	8 (TH)	9 (RT)	10 (LT)	11 (TH)	12 (RT)
Volume (veh/h)	325	280			235	75				5		35
PHF	.9	.9			.9	.9				.9		.9
Proportion of heavy vehicles, HV	3	3			3	3				3		3
Flow rate	361	311			261	83				6		39
Flare storage (# of vehs)												0
Median storage (# of vehs)										0		
Signal upstream of Movement 2 _____ ft      Movement 5 _____ ft												
Length of study period (h) <u>.25</u>												

#### Output Data

	Lane	Movement	Flow Rate (veh/h)	Capacity (veh/h)	v/c	Queue Length (veh)	Control Delay (s)	LOS	Approach Delay and LOS
NB	1		16						
	2								
	3								
SB	1	R	39	735	.053	<1	10.2	B	15.9
	2	L	10	118	.085	<1	38.3	E	
	3							C	
		①	361	1209	.299	I	9.2	A	
		④							

## CHAPTER 17 - TWSC - UNSIGNALIZED INTERSECTIONS WORKSHEET

### Analysis Summary

#### General Information

Analyst WY  
 Agency or Company AECOM  
 Analysis Period/Year PM SCEN1 NLT 2020  
 Comment 2020 PM W/SCEN 1 REZONING NLT

#### Site Information

Jurisdiction/Date 12/10/201  
 Major Street CONNECTOR RD  
 Minor Street LINDSEY RD

#### Input Data

Lane Configuration	EB			WB			NB			SB		
Lane 1 (curb)	T			TR						R		
Lane 2	L									L		
Lane 3												
Movement	1 (LT)	2 (TH)	3 (RT)	4 (LT)	5 (TH)	6 (RT)	7 (LT)	8 (TH)	9 (RT)	10 (LT)	11 (TH)	12 (RT)
Volume (veh/h)	330	300			230	75				5		35
PHF	.9	.9			.9	.9				.9		.9
Proportion of heavy vehicles, HV	3	3			3	3				3		3
Flow rate	367	333			256	83				6		39
Flare storage (# of vehs)												0
Median storage (# of vehs)										0		

Signal upstream of Movement 2 \_\_\_\_\_ ft      Movement 5 \_\_\_\_\_ ft

Length of study period (h) .25

#### Output Data

	Lane	Movement	Flow Rate (veh/h)	Capacity (veh/h)	v/c	Queue Length (veh)	Control Delay (s)	LOS	Approach Delay and LOS
NB	1		16						
	2								
	3								
SB	1	R	39	740	.053	<1	10.1	B	17.8
	2	L	13	113	.115	<1	40.9	E	
	3								C
		①	367	1215	.302	1	9.2	A	
		④							

## CHAPTER 17 - TWSC - UNSIGNALIZED INTERSECTIONS WORKSHEET

### Analysis Summary

#### General Information

#### Site Information

Analyst WY Jurisdiction/Date 12/10/201  
 Agency or Company AECOM Major Street CONNECTOR RD  
 Analysis Period/Year PM SCEN2 NLT 2020 Minor Street LINDSEY RD  
 Comment 2020 PM W/SCEN 2 REZONING NLT

#### Input Data

Lane Configuration	EB			WB			NB			SB		
Lane 1 (curb)	T			TR						R		
Lane 2	L									L		
Lane 3												
Movement	1 (LT)	2 (TH)	3 (RT)	4 (LT)	5 (TH)	6 (RT)	7 (LT)	8 (TH)	9 (RT)	10 (LT)	11 (TH)	12 (RT)
Volume (veh/h)	325	290			220	85				5		35
PHF	.9	.9			.9	.9				.9		.9
Proportion of heavy vehicles, HV	3	3			3	3				3		3
Flow rate	361	322			244	94				6		39
Flare storage (# of vehs)												0
Median storage (# of vehs)										0		

Signal upstream of Movement 2 \_\_\_\_\_ ft      Movement 5 \_\_\_\_\_ ft

Length of study period (h) .25

#### Output Data

	Lane	Movement	Flow Rate (veh/h)	Capacity (veh/h)	v/c	Queue Length (veh)	Control Delay (s)	LOS	Approach Delay and LOS
NB	1		16						
	2								
	3								
SB	1	R	39	745	.052	<1	10.1	B	15.3
	2	L	9	118	.076	<1	37.9	E	
	3								
		①	361	1215	.297	1	9.2	A	
		④							

## CHAPTER 17 - TWSC - UNSIGNALIZED INTERSECTIONS WORKSHEET

### Analysis Summary

General Information		Site Information	
Analyst	<u>WY</u>	Jurisdiction/Date	<u>12/10/201</u>
Agency or Company	<u>AECOM</u>	Major Street	<u>CONNECTOR RD</u>
Analysis Period/Year	<u>PM CURR NLT 2030</u>	Minor Street	<u>LINDSEY RD</u>
Comment	<u>2030 PM W/CURR ZON NLT</u>		

### Input Data

Lane Configuration	EB			WB			NB			SB		
Lane 1 (curb)	T			TR						R		
Lane 2	L									L		
Lane 3												
Movement	1 (LT)	2 (TH)	3 (RT)	4 (LT)	5 (TH)	6 (RT)	7 (LT)	8 (TH)	9 (RT)	10 (LT)	11 (TH)	12 (RT)
Volume (veh/h)	395	480			355	150				65		55
PHF	.9	.9			.9	.9				.9		.9
Proportion of heavy vehicles, HV	3	3			3	3				3		3
Flow rate	439	533			394	167				72		61
Flare storage (# of vehs)												0
Median storage (# of vehs)										0		

Signal upstream of Movement 2 \_\_\_\_\_ ft      Movement 5 \_\_\_\_\_ ft

Length of study period (h) .25

### Output Data

	Lane	Movement	Flow Rate (veh/h)	Capacity (veh/h)	v/c	Queue Length (veh)	Control Delay (s)	LOS	Approach Delay and LOS
NB	1		16						
	2								
	3								
SB	1	R	61	585	.104	<1	11.9	B	291.7
	2	L	72	43	1.665	7	528.8	F	
	3								F
		①	439	1005	.437	2	11.3	B	
		④							

## CHAPTER 17 - TWSC - UNSIGNALIZED INTERSECTIONS WORKSHEET

### Analysis Summary

#### General Information

#### Site Information

Analyst <u>WY</u>	Jurisdiction/Date <u>12/10/201</u>
Agency or Company <u>AECOM</u>	Major Street <u>CONNECTOR RD</u>
Analysis Period/Year <u>PM SCEN1 NLT 2030</u>	Minor Street <u>LINDSEY RD</u>
Comment <u>2030 PM W/SCEN 1 REZONING NLT</u>	

#### Input Data

Lane Configuration	EB			WB			NB			SB		
Lane 1 (curb)	T			TR						R		
Lane 2	L									L		
Lane 3												
Movement	1 (LT)	2 (TH)	3 (RT)	4 (LT)	5 (TH)	6 (RT)	7 (LT)	8 (TH)	9 (RT)	10 (LT)	11 (TH)	12 (RT)
Volume (veh/h)	400	500			330	145				65		60
PHF	.9	.9			.9	.9				.9		.9
Proportion of heavy vehicles, HV	3	3			3	3				3		3
Flow rate	444	556			367	161				72		67
Flare storage (# of vehs)												0
Median storage (# of vehs)										0		

Signal upstream of Movement 2 \_\_\_\_\_ ft      Movement 5 \_\_\_\_\_ ft

Length of study period (h) .25

#### Output Data

	Lane	Movement	Flow Rate (veh/h)	Capacity (veh/h)	v/c	Queue Length (veh)	Control Delay (s)	LOS	Approach Delay and LOS
NB	1		16						
	2								
	3								
SB	1	R	67	609	.11	<1	11.6	B	275.9
	2	L	72	44	1.651	7	521.8	F	
	3								F
		①	444	1034	.43	2	11.1	B	
		④							

**CHAPTER 17 - TWSC - UNSIGNALIZED INTERSECTIONS WORKSHEET**

**Analysis Summary**

General Information		Site Information	
Analyst	WY	Jurisdiction/Date	12/10/201
Agency or Company	AECOM	Major Street	CONNECTOR RD
Analysis Period/Year	PM SCEN2 NLT 2030	Minor Street	LINDSEY RD
Comment	2030 PM W/SCEN 2 REZONING NLT		

Input Data												
Lane Configuration	EB			WB			NB			SB		
Lane 1 (curb)	T			TR						R		
Lane 2	L									L		
Lane 3												
Movement	1 (LT)	2 (TH)	3 (RT)	4 (LT)	5 (TH)	6 (RT)	7 (LT)	8 (TH)	9 (RT)	10 (LT)	11 (TH)	12 (RT)
Volume (veh/h)	395	440			330	140				65		50
PHF	.9	.9			.9	.9				.9		.9
Proportion of heavy vehicles, HV	3	3			3	3				3		3
Flow rate	439	489			367	156				72		56
Flare storage (# of vehs)												0
Median storage (# of vehs)										0		
Signal upstream of Movement 2	_____ ft			Movement 5			_____ ft					
Length of study period (h)	.25											

Output Data									
	Lane	Movement	Flow Rate (veh/h)	Capacity (veh/h)	v/c	Queue Length (veh)	Control Delay (s)	LOS	Approach Delay and LOS
NB	1		16						
	2								
	3								
SB	1	R	56	611	.092	<1	11.5	B	241
	2	L	72	50	1.452	7	419.6	F	
	3								F
		①	439	1039	.422	2	11	B	
		④							