## **APPENDICES**

## C-663A Pre-Construction Traffic Study for the Scudder Falls Bridge Replacement Project

## **APPENDIX K**

CAPACITY ANALYSIS WORKSHEETS

(URBAN STREETS)



	HCS 2010 Urban Street Segment Report												
<u></u>				×									
General Information				Streets Information									
Agency	Pennoni			Number of Intersections	5								
Analyst	MTD	Analysis Date	Oct 26, 2015	Number of Segments	4								
Jurisdiction	PennDOT	Time Period	AM	Number of Iterations	15								
File Name	31 & 33 & 41 & 39 & 29 AM.xus	Analysis Year	2015	System Cycle Length, s	80								
Intersections	Edgewood Road & Yardley Morr	Afton Avenue & Ya	ardley Morrisville Road	Analysis Period	1> 7:00								
Project Description	Pre-Construction Traffic Study												

2764 ft	$\bigcirc$	4483 ft		8375 ft	
35 mph	$\neg$	35 mph	<i>+</i>	25 mph	

Basic Segm	Basic Segment Information													
Segment	Speed	d Limit	Throug	h Lanes	Segment Length		Intersection Wid		Length of RM		Percent Curb		Other Delay	
	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
4	25	35	1	1	8375	8375	46	38	0	0	0	0	0.0	0.0

		Northboun	ound Southbound					
Segment C	Output Data	NBL	NBT	NBR	SBL	SBT	SBR	
Segment	Movement	5	2	12	1	6	16	
4	Bay/Lane Spillback Time, h		never			never		
4	Shared Lane Spillback Time, h	never						
4	Base Free-Flow Speed, mph		36.46			41.16		
4	Running Time, s		159.51			141.67		
4	Running Speed, mph		35.80			40.31		
4	Through Delay, s/veh		15.82		14.30			
4	Travel Time, s		175.34			155.97		
4	Travel Speed, mph		32.57			36.61		
4	Stop Rate, stops/veh		0.44			0.49		
4	Spatial Stop Rate, stops/mi		0.28			0.31		
4	Through vol/cap Ratio		0.28			0.43		
4	Percent of Base FFS		89.32			88.95		
4	Level of Service		Α			А		
4	Auto Traveler Perception Score		2.18			2.19		
Multimoda	Results (Segment)							
4	Pedestrian Segment LOS Score / LOS	3.43 C			3.35	5	С	
4	Bicycle Segment LOS Score / LOS	3.43 C			3.44		С	
4	Transit Segment LOS Score / LOS	0.53		А	0.34		Α	

Facility Output Data	Northbound	Southbound
Facility Travel Time, s	382.65	347.44
Facility Travel Speed, mph	29.82	32.85
Facility Base Free Flow Speed, mph	38.88	41.77
Facility Percent of Base FFS	76.72	78.64
Facility Level of Service	В	В
Facility Auto Traveler Perception Score	2.34	2.29

Multimodal Results (Facility)												
Pedestrian Facility LOS Score / LOS	3.42	С	3.18	С								
Bicycle Facility LOS Score / LOS	3.43	С	3.44	С								
Transit Facility LOS Score / LOS	0.43	А	0.46	А								

	HCS 2010 Urban Street Segment Report												
General Information Streets Information													
Agency	Pennoni			Number of Intersections	5								
Analyst	MTD	Analysis Date	Oct 26, 2015	Number of Segments	4								
Jurisdiction	PennDOT	Time Period	PM	Number of Iterations	15								
File Name	31 & 33 & 41 & 39 & 29 PM.xus	Analysis Year	2015	System Cycle Length, s	80								
Intersections	Edgewood Road & Yardley Morr	Afton Avenue & Ya	ardley Morrisville Road	Analysis Period	1> 7:00								
Project Description	Pre-Construction Traffic Study												

2764 ft	$\bigcirc$	4483 ft	8375 ft	
40 mph	$\neg$	35 mph	 25 mph	$ ^{\circ}$

NB

Segment Length

SB

Through Lanes

SB

NB

Pedestrian Segment LOS Score / LOS

Bicycle Segment LOS Score / LOS

4	25	35	1	1	8375	8375	46	38	0	0	0	0	0.0	0.0
							N	orthbound				Southbo	ound	
Segment C	output Dat	ta				NBL	-	NBT	NBF	₹	SBL	SBT	-	SBR
Segment	Moveme	ent				5		2	12		1	6		16
4	Bay/Lar	ne Spillba	ck Time,	h				never				neve	r	
4	Shared	Lane Spi	Ilback Tin	ne, h		neve	r							
4	Base Fr	ee-Flow	Speed, m	ph				36.46				41.10	6	
4	Running	g Time, s						160.06				142.6	6	
4	Running	Speed,	mph					35.68				40.0	3	
4	Through	n Delay, s	/veh			6.43					15.40	6		
4	Travel T	īme, s				166.48				158.11				
4	Travel S	Speed, m	ph				34.30					36.1 <sup>-</sup>	1	
4	Stop Ra	ite, stops	/veh					0.29				0.50	)	
4	Spatial	Stop Rate	e, stops/n	ni		0.19						0.32	)	
4	Through	n vol/cap	Ratio					0.24				0.52	<u>.</u>	
4	Percent	of Base	FFS				94.07				87.74			
4	Level of	Service				A A								
4	Auto Tra	aveler Pe	rception S	Score				2.17				2.19	)	

Intersection Wid

SB

NB

Length of RM

SB

NB

С

С

Percent Curb

SB

NB

2.74

3.46

Other Delay

B C SB

NB

4	Transit Segment LOS Score / LOS	0.55	А	0.39	А		
Facility Out	put Data	Northbo	und	Southbo	ound		
Facility Trav	el Time, s	362.5	4	342.9	1		
Facility Trav	el Speed, mph	31.48		33.28			
Facility Base	e Free Flow Speed, mph	39.20		42.39			
Facility Perc	ent of Base FFS	80.30		78.51			
Facility Leve	el of Service	В		В			
Facility Auto	Traveler Perception Score	2.33		2.29			
Multimodal	Results (Facility)						

3.47

3.43

**Basic Segment Information** 

NB

**Multimodal Results (Segment)** 

4

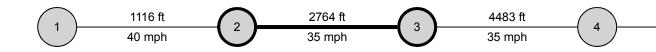
4

Speed Limit

SB

Segment

HCS 2010 Urban Street Segment Report												
General Information Streets Information												
Agency	Pennoni			Number of Intersections	5							
Analyst	MTD	Analysis Date	Oct 26, 2015	Number of Segments	4							
Jurisdiction	PennDOT	Time Period	AM	Number of Iterations	15							
File Name	31 & 33 & 41 & 39 & 29 AM.xus	Analysis Year	2015	System Cycle Length, s	80							
Intersections	Big Oak Rd & Pine Grove Rd	Yardley Morrisville	Rd & Pine Grove Rd	Analysis Period	1> 7:00							
Project Description	Pre-Construction Traffic Study											



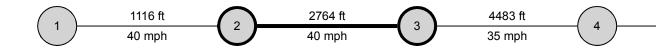
Basic Segment Information															
Segment	Speed	d Limit	Throug	h Lanes	Segmen	Segment Length		Intersection Wid		Length of RM		Percent Curb		Other Delay	
	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	
2	35	40	1	1	2764	2764	44	44	0	0	0	0	0.0	0.0	

			Northbound	<u> </u>	Southbound					
Segment C	Output Data	NBL	NBT	NBR	SBL	SBT	SBR			
Segment	Movement		2	12	1	6	ĺ			
2	Bay/Lane Spillback Time, h		never			never				
2	Shared Lane Spillback Time, h									
2	Base Free-Flow Speed, mph		41.44			43.79				
2	Running Time, s		47.59			45.03				
2	Running Speed, mph		39.60			41.85				
2	Through Delay, s/veh		20.56			26.30				
2	Travel Time, s		68.15		71.33					
2	Travel Speed, mph		27.65			26.42				
2	Stop Rate, stops/veh		0.60			0.73				
2	Spatial Stop Rate, stops/mi		1.14			1.40				
2	Through vol/cap Ratio		0.41			0.58				
2	Percent of Base FFS		66.72			60.33				
2	Level of Service		С			С				
2	Auto Traveler Perception Score		2.53			2.35				
Multimoda	l Results (Segment)									
2	Pedestrian Segment LOS Score / LOS	3.51		D	3.48	3	С			
2	Bicycle Segment LOS Score / LOS	3.41	С		C 3.41		С			
2	Transit Segment LOS Score / LOS	0.31		Α	0.20		Α			

Facility Output Data	Northbound	Southbound
Facility Travel Time, s	382.65	347.44
Facility Travel Speed, mph	29.82	32.85
Facility Base Free Flow Speed, mph	38.88	41.77
Facility Percent of Base FFS	76.72	78.64
Facility Level of Service	В	В
Facility Auto Traveler Perception Score	2.34	2.29

Multimodal Results (Facility)				
Pedestrian Facility LOS Score / LOS	3.42	С	3.18	С
Bicycle Facility LOS Score / LOS	3.43	С	3.44	С
Transit Facility LOS Score / LOS	0.43	А	0.46	А

	HCS 2010 Urban Street Segment Report												
General Information				Streets Information									
Agency	Pennoni			Number of Intersections	5								
Analyst	MTD	Analysis Date	Oct 26, 2015	Number of Segments	4								
Jurisdiction	PennDOT	Time Period	PM	Number of Iterations	15								
File Name	31 & 33 & 41 & 39 & 29 PM.xus	Analysis Year	2015	System Cycle Length, s	80								
Intersections	Big Oak Rd & Pine Grove Rd	Yardley Morrisville	Rd & Pine Grove Rd	Analysis Period	1> 7:00								
Project Description	Pre-Construction Traffic Study												



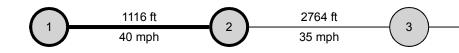
Basic Segm	Basic Segment Information													
Segment	Speed	d Limit	Throug	h Lanes	Segmen	Segment Length		Intersection Wid		Length of RM		nt Curb	Other Delay	
	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
2	40	40	1	1	2764	2764	44	44	0	0	0	0	0.0	0.0

·			Northbound	<u> </u>	Southbound					
Segment C	Output Data	NBL	NBT	NBR	SBL	SBT	SBR			
Segment	Movement		2	12	1	6				
2	Bay/Lane Spillback Time, h		never			never				
2	Shared Lane Spillback Time, h									
2	Base Free-Flow Speed, mph		43.79			43.79				
2	Running Time, s		45.36			45.51				
2	Running Speed, mph		41.55			41.41				
2	Through Delay, s/veh		19.94			13.10				
2	Travel Time, s		65.29		58.61					
2	Travel Speed, mph		28.86			32.15				
2	Stop Rate, stops/veh		0.48			0.57				
2	Spatial Stop Rate, stops/mi		0.92			1.08				
2	Through vol/cap Ratio		0.46			0.54				
2	Percent of Base FFS	65.91				73.42				
2	Level of Service		С			В				
2	Auto Traveler Perception Score		2.49			2.30				
Multimoda	Results (Segment)									
2	Pedestrian Segment LOS Score / LOS	2.42		В	3.64		D			
2	Bicycle Segment LOS Score / LOS	3.45	3.45 C 3.46			С				
2	Transit Segment LOS Score / LOS	0.26		Α	0.29		Α			

Facility Output Data	Northbound	Southbound
Facility Travel Time, s	362.54	342.91
Facility Travel Speed, mph	31.48	33.28
Facility Base Free Flow Speed, mph	39.20	42.39
Facility Percent of Base FFS	80.30	78.51
Facility Level of Service	В	В
Facility Auto Traveler Perception Score	2.33	2.29
	<del>.</del>	•

Multimodal Results (Facility)				
Pedestrian Facility LOS Score / LOS	3.29	С	2.92	С
Bicycle Facility LOS Score / LOS	3.45	С	3.47	С
Transit Facility LOS Score / LOS	0.46	А	0.51	А

	HCS 2010 Urban Street Segment Report												
General Information				Streets Information									
Agency	Pennoni			Number of Intersections	5								
Analyst	MTD	Analysis Date	Oct 26, 2015	Number of Segments	4								
Jurisdiction	PennDOT	Time Period	AM	Number of Iterations	15								
File Name	31 & 33 & 41 & 39 & 29 AM.xus	Analysis Year	2015	System Cycle Length, s	80								
Intersections	Pine Grove Rd & Trenton Ave	Big Oak Rd & Pir	e Grove Rd	Analysis Period	1> 7:00								
Project Description	Pre-Construction Traffic Study												

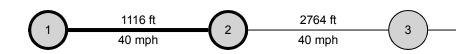


Segment	Speed	d Limit	Throug	h Lanes	Segmen	t Length	Interse	ction Wid	Length	of RM	Percei	nt Curb	Oth	er Delay		
	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB		
1	40	40	1	1	1116	1116	37	44	0	0	0	0	0.0	0.0		
							No	rthbound				Southbo	nund			
Segment C	Output Dat	ta				NBL		NBT	NBF	2	<del></del>		BT SBR			
Segment	Moveme					5		2	12		1	6		16		
1			ick Time,	h		never			, <u> </u>		<u> </u>	neve	r			
1			Ilback Tir								never			never		
1		<u> </u>	Speed, m					44.40				44.40	)			
1		Time, s	, ,					20.28				20.66	3			
1		Speed,	mph					37.53				36.84	4			
1		n Delay, s						28.21				20.09	9			
1	Travel T	īme, s						48.48			40.74					
1	Travel S	Speed, m	ph					15.69				18.67	7			
1	Stop Rate, stops/veh						0.78					0.60				
1	Spatial	3.69					2.83									
1	Through	vol/cap	Ratio					0.73				0.37	•			
1	Percent	of Base	FFS			35.35						42.06	3			
1	Level of	Service				E						D				
1	Auto Tra	aveler Pe	rception	Score		2.97						2.82				
Multimoda	I Results	(Segmer	ıt)													
1	Pedestr	ian Segn	nent LOS	Score / L	os	2.52 B				2.71			В			
1				ore / LOS		3.42 C				3.42			С			
1	Transit 9	Segment	LOS Sco	re / LOS		0.35 A					1.81			Α		
- ""								41.1				2 411				
Facility Ou								rthbound				Southbo				
Facility Trav								382.65				347.4				
Facility Trav		<u> </u>	l					29.82		_		32.85				
Facility Bas			ı, mpn					38.88				41.77				
Facility Lev								76.72				78.64	+			
Facility Level of Service Facility Auto Traveler Perception Score						B						B 2.29				
r acility Auto	Jilaveler	rerception	on score					2.34				2.29				
Multimoda	I Results	(Facility)														
Pedestrian							3.42		С		3.18	3		С		
Bicycle Fac	-						3.43	Î	С		3.44			С		
	1 00 0		20				0.40		_		0.40			•		

**Basic Segment Information** 

0.43

	HCS 2010 Urban Street Segment Report												
General Information				Streets Information									
Agency	Pennoni			Number of Intersections	5								
Analyst	MTD	Analysis Date	Oct 26, 2015	Number of Segments	4								
Jurisdiction	PennDOT	Time Period	PM	Number of Iterations	15								
File Name	31 & 33 & 41 & 39 & 29 PM.xus	Analysis Year	2015	System Cycle Length, s	80								
Intersections	Pine Grove Rd & Trenton Ave	Big Oak Rd & Pin	ne Grove Rd	Analysis Period	1> 7:00								
Project Description	Pre-Construction Traffic Study												



Percent Curb

0.60

34.27

Other Delay

	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
1	40	40	1	1	1116	1116   37   44   0   0   0   0   0					0.0	0.0		
	<u> </u>							<u> </u>						
								orthbound				Southbo	ound	
Segment O	utput Dat	ta				NBL		NBT	NBR	₹	SBL	SBT		SBR
Segment	Moveme	ent				5 2 12 1 6							16	
1	Bay/Lar	ie Spillba	ck Time,	h		never					never r		r	
1	Shared	Lane Spi	llback Tin	ne, h							never			never
1	Base Fr	ee-Flow	Speed, m	ıph		44.40						44.40	)	
1	Running	Time, s				20.48				20.50				
1	Running	Speed,	mph				37.15				37.12			
1	Through	n Delay, s	/veh					14.58				29.5°	1	
1	Travel T	ïme, s						35.06				50.0°	1	
1	Travel S	Speed, m	ph					21.70				15.2°	1	
1	Stop Ra	ite, stops	/veh				0.65			0.78				
1	Spatial	Stop Rate	e, stops/n	ni				3.06				3.67	'	

Through Lanes | Segment Length | Intersection Wid

1	Level of Service	D		E			
1	Auto Traveler Perception Score	2.86		2.97			
Multimoda	l Results (Segment)						
1	Pedestrian Segment LOS Score / LOS	2.49	В	2.57	В		
1	Bicycle Segment LOS Score / LOS	3.46	С	3.46	С		
1	Transit Segment LOS Score / LOS	0.44	Α	2.23	В		

0.65

48.88

Facility Output Data	Northbound	Southbound
Facility Travel Time, s	362.54	342.91
Facility Travel Speed, mph	31.48	33.28
Facility Base Free Flow Speed, mph	39.20	42.39
Facility Percent of Base FFS	80.30	78.51
Facility Level of Service	В	В
Facility Auto Traveler Perception Score	2.33	2.29

Multimodal Results (Facility)													
Pedestrian Facility LOS Score / LOS	3.29	С	2.92	С									
Bicycle Facility LOS Score / LOS	3.45	С	3.47	С									
Transit Facility LOS Score / LOS	0.46	А	0.51	А									

**Basic Segment Information** 

Speed Limit

Through vol/cap Ratio

Percent of Base FFS

Segment

1

1

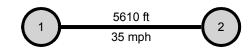
				HCS	2010 U	rban S	Stree	t Seg	mer	nt Repo	ort					
General Inf	ormation	1_										Streets In				
Agency			ennoni			1		T -				Number of			5	
Analyst		M				Analys				2015	-	Number of			4	
Jurisdiction		_	ennDOT			Time F		AN				Number of			15	
File Name					29 AM.xus				15			System Cy		h, s	80	
Intersection					d & Pine G	r Edgew	ood R	oad & Ya	ardle	y Morrisv	ille Ro	Analysis P	eriod		1>	7:00
Project Des	cription	Pro	e-Constru	ction Tra	ffic Study											
1116	S ft		\	2764 ft				4483 ff	t			8375	i ft			
40 m	ph	2	)——	35 mph		3		35 mph	ı			25 m	ph		5	
Basic Segn	nent Inforn	nation														
Segment	Speed	Limit	Through	n Lanes	Segment	Length	Inter	section \	Wid	Length	of RM	Percei	ent Curb C		ther	Delay
	NB	SB	NB	SB	NB	SB	NB	S	В	NB	SB	NB	SB	NI	3	SB
3	35	35	1	1	4483	4483	40	4	6	0	0	0	0	0.	0	0.0
	Somment Output Data					North							Southbound			
	Segment Output Data					NBL	-	NBT		NBR		SBL	SBT			SBR
Segment						5 2				12		1 6				16
3	Bay/Lane Spillback Time, h					never					neve	r				
3	Shared La	ane Spi	illback Tim	ne, h						never						
3	Base Free			ph		41.12						41.12	2			
3	Running <sup>-</sup>					76.34						77.12				
3	Running					40.04							39.6			
3	Through I		s/veh					14.34				2.27				
3	Travel Tin	ne, s						90.68	3			79.39				
3	Travel Sp		•					33.71					38.50			
3	Stop Rate	e, stops	/veh					0.49					0.02	2		
3	Spatial St	top Rate	e, stops/m	ni				0.58					0.02	2		
3	Through	vol/cap	Ratio					0.46					0.17	,		
3	Percent o	f Base	FFS					81.97	7				93.6	3		
3	Level of S	Service						В					Α			
3	Auto Trav	eler Pe	erception S	Score				2.44					2.35	5		
Multimodal	1										ı,					
3	Pedestria						3.55		<u> </u>	D		2.78			C	
3			t LOS Sco				3.45			С		3.48			С	
3	Transit Se	egment	LOS Sco	re / LOS			0.34			Α		0.50			А	١
Facility Out	tput Data						١	Northbo	und				Southbo	ound		
Facility Trav	el Time, s							382.6	5				347.4	4		
Facility Trav	Facility Travel Speed, mph							29.82	2				32.8	5		
Facility Base Free Flow Speed, mph					Ì			38.88	3				41.7	7		
Facility Percent of Base FFS					ĺ			76.72	2				78.6	4		
Facility Level of Service								В					В			
Facility Auto Traveler Perception Score						2.34					2.29					
Multimodal Results (Facility)																
	-		-			3.42 C		3.18		C	:					
	edestrian Facility LOS Score / LOS						3.43			C		3.18		C		
	cycle Facility LOS Score / LOS					3.43				C		0.46				

0.43

				HCS	2010 U	rban S	Stree	et Seç	gmer	nt Repo	ort					
General Inf	ormation											Streets In	formatior	1		
Agency		Pe	ennoni									Number of	Intersecti	ions	5	
Analyst		M	TD			Analys	sis Da	te (	Oct 26,	2015		Number of	Segment	:S	4	
Jurisdiction		Pe	ennDOT			Time F	Period	F	PM			Number of	Iterations	3	15	
File Name		31	& 33 & 4	1 & 39 &	29 PM.xus	Analys	sis Yea	ar 2	2015			System Cy	cle Lengt	h, s	80	
Intersections	S	Ya	ardley Mor	risville Ro	d & Pine G	r Edgew	ood R	Road &	Yardle	y Morrisv	ille Ro	Analysis P	eriod		1>	7:00
Project Desc	cription	Pr	e-Constru	ction Tra	ffic Study											
1116 40 m		2	)—	2764 ft 40 mph	(	3		4483 35 mp		_(4	)	8375 25 m		_(	5	
Basic Segn	ont Infor	mation														
Segment	1	d Limit	Through	h Lanes	Soamont	ment Length Intersection Wid Length of				of DM	RM Percent Curb			thor	Delay	
Segment	NB	SB	NB	SB	NB			NB	SB	NB	SB	NI	10	SB		
3	3 35 40 1 1 4483					4483	40	_	46	0	0	0	0	0.	-	0.0
	00	70		'	7700	4400			70	U				0.		0.0
							Northbound				Southb		ound			
Segment O	Segment Output Data						- 1	NE		NBR		SBL	SBT		SBR	
Segment	Moveme					NBL NBT 5 2				12		1	6	3 16		16
3	Bay/Lan	e Spillba	ack Time,	h		never				never						
3			illback Tin							never						
3	-		Speed, m			41.12						43.47	7			
3		Time, s	•			77.02						73.20				
3		Speed,				39.69						41.7				
3		Delay, s				18.69							2.97			
3	Travel T							95.7				76.17				
3	-	peed, m	nh					31.9				40.13				
3		te, stops	•					0.6					0.02			
3	1		e, stops/m	ni				0.7					0.02			
3	-	vol/cap						0.6					0.30			
3		of Base						77.6					92.30			
3	Level of							В					A			
3			erception S	Score				2.4					2.35			
Multimodal				300.0									2.00	<u> </u>		
3	V		nent LOS	Score / L	OS		3.68		Т	D		2.88	<u> </u>		C	:
3			t LOS Sco				3.47			C		3.49			C	
3	1		LOS Sco				0.41			A		0.44			A	
											1					
Facility Out								Northb					Southbo			
	Facility Travel Time, s							362.			_		342.9			
_	Facility Travel Speed, mph  Facility Base Free Flow Speed, mph							31.4					33.28			
			d, mph					39.2					42.39			
Facility Pero								80.3					78.5	1		
Facility Auto Traveler Percention Score								В					B			
Facility Auto Traveler Perception Score								2.3	3				2.29			
Multimodal Deculto (Facility)																
Multimodal Results (Facility)					2.20		2.92		C							
	Pedestrian Facility LOS Score / LOS					3.29			C							
	cycle Facility LOS Score / LOS					3.45				C		3.47			C	

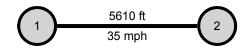
0.46

HCS 2010 Urban Street Segment Report												
General Information				Streets Information								
Agency	Pennoni			Number of Intersections	2							
Analyst	MTD	Analysis Date	10/12/2015	Number of Segments	1							
Jurisdiction	PennDOT	Time Period	AM	Number of Iterations	15							
File Name	42-Edgewood Rd-Oxford Valley	Analysis Year	2015	System Cycle Length, s	120							
Intersections	Edgewood Rd & Oxford Valley R	Edgewood Rd. &	Makefield Rd.	Analysis Period	1> 7:00							
Project Description	Pre-Construction Traffic Study											



Basic Segn	nent Info	mation													
Segment		d Limit	Throug	h Lanes	Seamer	it Length	Interse	ction Wid	Length	of RM	Percei	nt Curb	Other	Delay	
	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	
1	35	25	1	1	5610	5610	40	32	0	0	0	0	0.0	0.0	
		1			l .		1				-1		1		
							Ea	stbound				Westbo	und		
Segment O	utput Dat	ta				EBL		EBT	EBR		WBL	WB1	WBR		
Segment	Moveme	ent				5 2 12				1 6			16		
1	Bay/Lar	ie Spillba	ck Time,	h		never						neve	r		
1	Shared	Lane Spi	llback Tin	ne, h											
1	Base Fr	ee-Flow	Speed, m	ph		41.31						36.6	1		
1		Time, s				94.55						106.0			
1		Speed,				40.45						36.0			
1		n Delay, s	/veh			81.69						4.08	<u> </u>		
1	Travel T					176.24						110.1			
1		Speed, m						21.70				34.72			
1							1.09					0.29			
1	Spatial Stop Rate, stops/mi					1.02					0.27				
1	Through vol/cap Ratio							0.91				0.22			
1	_	of Base	FFS					52.54				94.82	2		
1	Level of					C 2.54						Α			
1			rception S	Score		2.51						2.39			
Multimodal	V .					1						Γ			
1			ent LOS		OS		3.55		D		2.87			0	
1	-		LOS Sco				3.43		C		3.39			2	
1	Transit	Segment	LOS Sco	re / LOS			0.32		A		0.49			Α	
Facility Out	tput Data						Ea	stbound				Westbo	und		
Facility Trav	-							176.24				110.1			
Facility Trav								21.70				34.72			
Facility Base	-		, mph					41.31				36.6			
Facility Perc								52.54				94.82			
Facility Leve								С				Α			
Facility Auto Traveler Perception Score						2.51						2.39			
Multimodal	Multimodal Results (Facility)														
						3.55 D				2.87		,			
	Pedestrian Facility LOS Score / LOS Bicycle Facility LOS Score / LOS					3.43 C				3.39			<u> </u>		
	Transit Facility LOS Score / LOS				0.32 A				0.49 A						

HCS 2010 Urban Street Segment Report												
General Information				Streets Information								
Agency	Pennoni			Number of Intersections	2							
Analyst	MTD	Analysis Date	10/12/2015	Number of Segments	1							
Jurisdiction	PennDOT	Time Period	PM	Number of Iterations	15							
File Name	42-Edgewood Rd-Oxford Valley	Analysis Year	2015	System Cycle Length, s	120							
Intersections	Edgewood Rd & Oxford Valley R	Edgewood Rd. 8	Makefield Rd.	Analysis Period	1> 7:00							
Project Description	Pre-Construction Traffic Study											



Basic Segr	1						T								
Segment		d Limit		h Lanes	_	t Length		ection Wid	Length		-	nt Curb		er Delay	
	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WE	
1	35	25	1	1	5610	5610	40	32	0	0	0	0	0.0	0.0	
							F	astbound				Westbo	und		
Segment C	utput Dat	ta				EBL	-	EBT	EBR		WBL	WBT		WBR	
Segment	Moveme					5 2			12		1	6		16	
1		ne Spillba	ck Time,	h		6.26					never				
1		Lane Spi													
1	Base Fr	ee-Flow	Speed, m	ıph		41.31						36.6	1		
1	Running	Time, s				94.97						106.1	7		
1	Running	Speed,	mph			40.28						36.03	3		
1	Through	n Delay, s	/veh			121.58						4.19			
1	Travel T	īme, s				216.55						110.3	6		
1	Travel S	Speed, mp	oh			17.66						34.66	3		
1	Stop Ra	ite, stops/	/veh					1.38				0.28			
1	Spatial Stop Rate, stops/mi					1.30					0.27				
1	Through vol/cap Ratio							1.07			0.23				
1	Percent of Base FFS							42.76				94.6	7		
1		Service						F				Α			
1		aveler Pe		Score		2.55						2.39	1		
Multimoda															
1		ian Segm			os		3.62		D		2.87			С	
1		Segment					3.45		С		3.40			С	
1	Transit	Segment	LOS Sco	re / LOS			0.35		Α		0.49			Α	
Facility Ou	tnut Data						_	astbound				Westbo	und		
Facility Trav								216.55				110.3			
Facility Trav								17.66				34.60			
Facility Bas			mph					41.31				36.6			
Facility Per			,թ					42.76				94.67			
Facility Lev								D				A			
Facility Auto Traveler Perception Score								2.55				2.39			
Multimodal Results (Facility)															
						200						1			
Pedestrian Facility LOS Score / LOS						3.62 D				2.87			С		
Bicycle Facility LOS Score / LOS					3.45 C					3.40			C		
Transit Fac	Transit Facility LOS Score / LOS						0.35		Α		0.49 A				

HCS 2010 Urban Street Segment Report												
Conoral Information				Streets Information								
General Information	T.											
Agency	Pennoni			Number of Intersections	4							
Analyst	MTD	Analysis Date	Oct 26, 2015	Number of Segments	3							
Jurisdiction	PennDOT	Time Period	AM	Number of Iterations	15							
File Name	45 47 & 49 AM.xus	Analysis Year	2015	System Cycle Length, s	100							
Intersections	Trenton Ave & Pennsylvania Ave	Yardley Morrisville	Rd & Pine Grove Rd	Analysis Period	1> 7:00							
Project Description	Pre-Construction Traffic Study											

1948 ft	$\bigcirc$	3700 ft	$\bigcirc$	6524 ft	
25 mph		25 mph		40 mph	

Basic Segm	Basic Segment Information														
Segment	Speed Limit Through Lanes				Segmen	t Length	Intersec	tion Wid	Length	of RM	Percer	nt Curb	Other Delay		
	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	
3	40	25	1	1	6524	6524	83	49	0	0	0	0	0.0	0.0	

			Northbound	1		Southboun	d
Segment C	Output Data	NBL	NBT	NBR	SBL	SBT	SBR
Segment	Movement		2	12	1	6	
3	Bay/Lane Spillback Time, h		never			never	
3	Shared Lane Spillback Time, h						
3	Base Free-Flow Speed, mph		43.50	·		36.46	
3	Running Time, s		104.52			124.15	
3	Running Speed, mph		42.56			35.83	
3	Through Delay, s/veh		25.31		17.67		
3	Travel Time, s		129.83		141.82		
3	Travel Speed, mph		34.26			31.37	
3	Stop Rate, stops/veh		0.72		0.70		
3	Spatial Stop Rate, stops/mi		0.58		0.56		
3	Through vol/cap Ratio		0.61		0.40		
3	Percent of Base FFS		78.75			86.03	
3	Level of Service		В			А	
3	Auto Traveler Perception Score		2.44			2.22	
Multimoda	Results (Segment)						
3	Pedestrian Segment LOS Score / LOS	2.44	2.44		3.46	;	С
3	Bicycle Segment LOS Score / LOS	3.45	5 C		3.40		С
3	Transit Segment LOS Score / LOS	0.25	Ì	Α	0.51		Α

Facility Output Data	Northbound	Southbound
Facility Travel Time, s	262.28	274.66
Facility Travel Speed, mph	31.64	30.22
Facility Base Free Flow Speed, mph	39.90	36.79
Facility Percent of Base FFS	79.30	82.14
Facility Level of Service	В	В
Facility Auto Traveler Perception Score	2.36	2.30

Multimodal Results (Facility)											
Pedestrian Facility LOS Score / LOS	2.45	С	2.96	С							
Bicycle Facility LOS Score / LOS	3.28	С	3.41	С							
Transit Facility LOS Score / LOS	0.33	А	0.52	А							

HCS 2010 Urban Street Segment Report											
General Information				Streets Information							
Agency	Pennoni			Number of Intersections	4						
Analyst	MTD	Analysis Date	Oct 26, 2015	Number of Segments	3						
Jurisdiction	PennDOT	Time Period	PM	Number of Iterations	15						
File Name	45 47 & 49 PM.xus	Analysis Year	2015	System Cycle Length, s	90						
Intersections	Trenton Ave & Pennsylvania A	Trenton Ave & Pennsylvania Ave Yardley Morrisville Rd & Pine Grove Rd									
Project Description	Pre-Construction Traffic Study										

1945 ft	3700 ft	$\bigcirc$	6524 ft	
25 mph	25 mph		40 mph	

Basic Segment Information														
Segment	Speed	d Limit	Throug	Through Lanes   Segment Lengt		t Length	Intersec	tion Wid	Length of RM		Percent Curb		Other Delay	
	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
2	40	25	1	1	6524	6524	63	40	0	0	0	0	0.0	0.0

			Northbound	1		Southboun	d	
Segment C	Output Data	NBL	NBT	NBR	SBL	SBT	SBR	
Segment	Movement		2	12	1	6		
3	Bay/Lane Spillback Time, h		never			never		
3	Shared Lane Spillback Time, h							
3	Base Free-Flow Speed, mph		43.50			36.46		
3	Running Time, s		102.98			125.33		
3	Running Speed, mph		43.19			35.49		
3	Through Delay, s/veh		15.70		21.55			
3	Travel Time, s	118.68 146.88						
3	Travel Speed, mph		37.48			30.28		
3	Stop Rate, stops/veh		0.41		0.81			
3	Spatial Stop Rate, stops/mi		0.33		0.66			
3	Through vol/cap Ratio		0.13		0.61			
3	Percent of Base FFS		86.15			83.06		
3	Level of Service		Α			В		
3	Auto Traveler Perception Score		2.40			2.24		
Multimoda	l Results (Segment)							
3	Pedestrian Segment LOS Score / LOS	2.22	2.22		3.58	3	D	
3	Bicycle Segment LOS Score / LOS	3.13	3.13 C		3.43		С	
3	Transit Segment LOS Score / LOS	0.09	Ì	Α	0.58	3	Α	

Facility Output Data	Northbound	Southbound
Facility Travel Time, s	249.07	291.57
Facility Travel Speed, mph	33.31	28.46
Facility Base Free Flow Speed, mph	39.90	36.79
Facility Percent of Base FFS	83.48	77.36
Facility Level of Service	В	В
Facility Auto Traveler Perception Score	2.33	2.33
		*

Multimodal Results (Facility)				
Pedestrian Facility LOS Score / LOS	2.31	С	3.08	С
Bicycle Facility LOS Score / LOS	3.11	С	3.44	С
Transit Facility LOS Score / LOS	0.25	А	0.59	Α

HCS 2010 Urban Street Segment Report											
General Information				Streets Information							
Agency	Pennoni	Number of Intersections	4								
Analyst	MTD	Analysis Date	Oct 26, 2015	Number of Segments	3						
Jurisdiction	PennDOT	Time Period	AM	Number of Iterations	15						
File Name	45 47 & 49 AM.xus	Analysis Year	2015	System Cycle Length, s	100						
Intersections	Bridge St & Pennsylvania Ave	Trenton Ave & P	ennsylvania Ave	Analysis Period	1> 7:00						
Project Description	Pre-Construction Traffic Study										

1948 ft		3700 ft	$\bigcirc$	6524 ft	
25 mph	(L)	25 mph	U)	40 mph	4

Basic Segm	Basic Segment Information													
Segment	Speed	d Limit	Throug	h Lanes	Segmen	nt Length Intersection Wid Length		of RM	RM Percent Curb		Other Delay			
	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB SB
2	25	25	1	1	3700	3700	60	55	0	0	0	0	0.0	0.0
						No	rthbound				Southbo	ound		
Segment O	utput Dat	ta				NBL		NBT	NBF	2	SBL	SBT		SBR
Segment	Moveme	ent				5		2	12		1	6		16
2	Bay/Lar	ne Spillba	ck Time,	h				never				neve	r	
2	Shared	Lane Spi	llback Tin	ne, h		neve	r				never			
	Dana Fran Flaw On and work			00.44				00.44						

- 11										
	2	Shared Lane Spillback Time, h	never			never				
	2	Base Free-Flow Speed, mph	36.11			36.11 36.11				
	2	Running Time, s	70.89			71.41				
	2	Running Speed, mph		35.58			35.33			
	2	Through Delay, s/veh	15.51			15.51 17.57			17.57	
ſ	2	Travel Time, s	86.40			88.98				

2	Travel Speed, mph	29.20	28.35
2	Stop Rate, stops/veh	0.64	0.54
2	Spatial Stop Rate, stops/mi	0.91	0.77
2	Through vol/cap Ratio	0.22	0.29

_	I modgii voiroap mado	0.22	0.20
2	Percent of Base FFS	80.87	78.52
2	Level of Service	В	В
2	Auto Traveler Percention Score	2 28	2 47

	Auto Traveler Perception Score	2.28		2.41					
Multimodal	Multimodal Results (Segment)								
2	Pedestrian Segment LOS Score / LOS	2.36	В	2.35	В				
2	Bicycle Segment LOS Score / LOS	3.24	С	3.41	С				

0.45

Facility Output Data	Northbound	Southbound
Facility Travel Time, s	260.16	274.66
Facility Travel Speed, mph	31.90	30.22
Facility Base Free Flow Speed, mph	39.90	36.79
Facility Percent of Base FFS	79.95	82.14
Facility Level of Service	В	В
Facility Auto Traveler Perception Score	2.35	2.30

Multimodal Results (Facility)							
Pedestrian Facility LOS Score / LOS	2.45	С	2.96	С			
Bicycle Facility LOS Score / LOS	3.28	С	3.41	С			
Transit Facility LOS Score / LOS	0.33	Α	0.52	Α			

Transit Segment LOS Score / LOS

2

Α

Α

HCS 2010 Urban Street Segment Report										
General Information	General Information Streets Information									
Agency	Pennoni			Number of Intersections	4					
Analyst	MTD	Analysis Date	Oct 26, 2015	Number of Segments	3					
Jurisdiction	PennDOT	Time Period	PM	Number of Iterations	15					
File Name	45 47 & 49 PM.xus	Analysis Year	2015	System Cycle Length, s	90					
Intersections	Bridge St & Pennsylvania Ave	Trenton Ave & P	ennsylvania Ave	Analysis Period	1> 7:00					
Project Description	Pre-Construction Traffic Study									

1945 ft	$\bigcirc$	3700 ft	$\bigcirc$	6524 ft	
25 mph		25 mph	Ů	40 mph	4

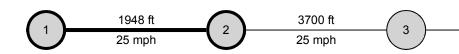
Basic Segment Information														
Segment	Speed	d Limit	Throug	h Lanes	Segmer	t Length	Inters	section Wid	Length	of RM	Percei	nt Curb	Othe	r Delay
	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
2	25	25	1	1	3700	3700	60	55	0	0	0	0	0.0	0.0
	Northbound Southbound													
Segment Output Data				NBL		NBT	NBF	1	SBL	SBT		SBR		
0						_			40			_		40

			Northboun	ıd	Southbound			
Segment O	utput Data	NBL	NBT	NBR	SBL	SBT	SBR	
Segment	Movement	5	2	12	1	6	16	
2	Bay/Lane Spillback Time, h		never			never		
2	Shared Lane Spillback Time, h	never			never			
2	Base Free-Flow Speed, mph		36.11 36.11					
2	Running Time, s	70.87 72.42						
2	Running Speed, mph	35.60 34.83						
2	Through Delay, s/veh	14.21			12.48			
2	Travel Time, s	85.08			84.90			
2	Travel Speed, mph		29.65			29.71		
2	Stop Rate, stops/veh		0.59			0.47	0.47	
2	Spatial Stop Rate, stops/mi		0.84			0.67		
2	Through vol/cap Ratio		0.10			0.45		
2	Percent of Base FFS		82.13			82.29		
2	Level of Service	В В						
2	Auto Traveler Perception Score	2.26 2.45						
Multimodal	Results (Segment)							
2	Pedestrian Segment LOS Score / LOS	2.53		В	2.45	5	В	
2	Bicycle Segment LOS Score / LOS	3.21		С	3.45	5	С	
2	Transit Segment LOS Score / LOS	0.45		Α	0.62	2	Α	

Facility Output Data	Northbound	Southbound
Facility Travel Time, s	249.07	291.57
Facility Travel Speed, mph	33.31	28.46
Facility Base Free Flow Speed, mph	39.90	36.79
Facility Percent of Base FFS	83.48	77.36
Facility Level of Service	В	В
Facility Auto Traveler Perception Score	2.33	2.33

Multimodal Results (Facility)				
Pedestrian Facility LOS Score / LOS	2.31	С	3.08	С
Bicycle Facility LOS Score / LOS	3.11	С	3.44	С
Transit Facility LOS Score / LOS	0.25	Α	0.59	А

	HCS 2010 Urban Street Segment Report						
General Information				Streets Information			
Agency	Pennoni			Number of Intersections	4		
Analyst	MTD	Analysis Date	Oct 26, 2015	Number of Segments	3		
Jurisdiction	PennDOT	Time Period	AM	Number of Iterations	15		
File Name	45 47 & 49 AM.xus	Analysis Year	2015	System Cycle Length, s	100		
Intersections	S Philadelphia Ave & W Pl	niladel Bridge St & Peni	nsylvania Ave	Analysis Period	1> 7:00		
Project Description	Pre-Construction Traffic St	udv		**			



Percent Curb

3.44

0.52

Other Delay

С

		<u> </u>							3-					
	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
1	25	30	1	1	1948	948 1948 50 50 0 0				0	70	70	0.0	0.0
							No	rthbound				Southbo	ound	
Segment O	t Output Data				NBL		NBT	NBF	2	SBL	SBT	-	SBR	
Segment	Moveme	ent				5		2	12		1	6		16
1	Bay/Lan	e Spillba	ck Time,	h				never				neve	r	
1	Shared	Lane Spi	llback Tin	ne, h		neve	r							
1	Base Fr	ee-Flow	Speed, m	ph		37.02				39.37				
1	Running	Time, s						37.50				36.40	0	
1	Running	Speed,	mph					35.42				36.49	9	
1	Through	Delay, s	/veh					8.55				7.46	;	
1	Travel T	īme, s						46.05			43.86			
1	Travel S	peed, m	oh			28.84				30.28				
1	Stop Ra	te, stops	/veh					0.28				0.26	;	
1	Spatial S	Stop Rate	e, stops/m	ni			0.77					0.71		
1	Through	vol/cap	Ratio					0.04				0.46	;	
1	Percent	of Base	FFS					77.91				76.92	2	
1	Level of	Service						В				В		
1	Auto Tra	veler Pe	rception S	Score				2.25				2.25	j	
Multimodal	Results	(Segmen	ıt)											
1	Pedestr	ian Segm	ent LOS	Score / L	os		2.66		В		2.42	2		В

Through Lanes | Segment Length | Intersection Wid | Length of RM |

1	Transit Segment LOS Score / LOS	0.38	Α	0.51	Α	
Facility Ou	itput Data	Northbo	und	Southbo	ound	
Facility Tra	vel Time, s	260.16 274.66			66	
Facility Tra	vel Speed, mph	31.90		30.2	2	
Facility Bas	e Free Flow Speed, mph	39.90	)	36.79	9	
Facility Per	cent of Base FFS	79.95	5	82.1	4	
Facility Lev	el of Service	В		В		
Facility Aut	o Traveler Perception Score	2.35		2.30	)	
Multimoda	I Results (Facility)					
Pedestrian	Facility LOS Score / LOS	2.45	С	2.96	С	
Bicycle Fac	cility LOS Score / LOS	3.28	С	3.41	С	

0.33

2.82

Transit Facility LOS Score / LOS

Bicycle Segment LOS Score / LOS

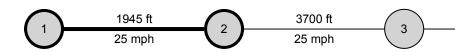
**Basic Segment Information** 

Segment

Speed Limit

С

	HCS 2010 Urban Street Segment Report						
General Information				Streets Information			
Agency	Pennoni			Number of Intersections	4		
Analyst	MTD	Analysis Date	Oct 26, 2015	Number of Segments	3		
Jurisdiction	PennDOT	Time Period	PM	Number of Iterations	15		
File Name	45 & 47 PM.xus	Analysis Year	2015	System Cycle Length, s	90		
Intersections	S Philadelphia Ave & W Phi	ladel Bridge St & Peni	nsylvania Ave	Analysis Period	1> 7:00		
Project Description	Pre-Construction Traffic Stu	dv					



Basic Segm	ent Info	rmation												
Segment	Speed	d Limit	Throug	h Lanes	Segmen	t Length	Intersec	tion Wid	Length	of RM	Percer	nt Curb	Other	Delay
	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
1	25	30	1	1	1945	1945	50	50	0	0	70	70	0.0	0.0

			Northbound	l		Southboun	d
Segment C	Output Data	NBL	NBT	NBR	SBL	SBT	SBR
Segment	Movement	5	2	12	1	6	16
1	Bay/Lane Spillback Time, h		never			never	
1	Shared Lane Spillback Time, h	never					
1	Base Free-Flow Speed, mph		37.02			39.37	
1	Running Time, s	37.47 36.41					
1	Running Speed, mph		35.39			36.42	
1	Through Delay, s/veh		8.80			20.06	
1	Travel Time, s		46.27			56.47	
1	Travel Speed, mph	28.66 23.48			23.48		
1	Stop Rate, stops/veh		0.36			0.63	
1	Spatial Stop Rate, stops/mi	0.97			1.71		
1	Through vol/cap Ratio	0.04			0.59		
1	Percent of Base FFS	77.42 59.65					
1	Level of Service		В С				
1	Auto Traveler Perception Score		2.28			2.40	
Multimoda	Results (Segment)						
1	Pedestrian Segment LOS Score / LOS	2.25		В	2.63	3	В
1	Bicycle Segment LOS Score / LOS	2.88		С	3.45		С
1	Transit Segment LOS Score / LOS	0.38		A	0.58	0.58	

Facility Output Data	Northbound	Southbound
Facility Travel Time, s	250.02	288.26
Facility Travel Speed, mph	33.19	28.78
Facility Base Free Flow Speed, mph	39.90	36.79
Facility Percent of Base FFS		
Facility Level of Service		
Facility Auto Traveler Perception Score		

## Multimodal Results (Facility) Pedestrian Facility LOS Score / LOS Bicycle Facility LOS Score / LOS Transit Facility LOS Score / LOS

	HCS 2010	OUrban Street S	Segment Repo	rt	
General Information				Streets Information	
Agency	Pennoni			Number of Intersections	4
Analyst	MTD	Analysis Date	Oct 28, 2015	Number of Segments	3
Jurisdiction	PennDOT	Time Period	AM	Number of Iterations	15
File Name	50 & 51 & 53 AM.xus	Analysis Year	2015	System Cycle Length, s	80
Intersections	Pennsylvania Ave & Trentor	n Ave Rt. 32 & Trenton	Ave	Analysis Period	1> 7:00
Project Description	Pre-Construction Traffic Stu	ıdy			

1400 ft	$\bigcirc$	4344 ft	$\bigcirc$	1440 ft	
40 mph		35 mph		35 mph	

Basic Segm	ent Infor	mation												
Segment	Speed	l Limit	Throug	h Lanes	Segmen	t Length	Intersec	tion Wid	Length	of RM	Percer	nt Curb	Other	Delay
	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
3	35	35	1	1	1440	1440	69	70	0	0	0	0	0.0	0.0

			Eastbound	1	Westbound			
Segment O	Output Data	EBL	EBT	EBR	WBL	WBT	WBR	
Segment	Movement	5	2	12	1	6	16	
3	Bay/Lane Spillback Time, h		never			never		
3	Shared Lane Spillback Time, h	never			never			
3	Base Free-Flow Speed, mph	41.45				41.45		
3	Running Time, s		27.32			26.38		
3	Running Speed, mph		35.94		37.22			
3	Through Delay, s/veh		17.48			9.61		
3	Travel Time, s		44.80			35.99		
3	Travel Speed, mph	21.91				27.28		
3	Stop Rate, stops/veh	0.45				0.45		
3	Spatial Stop Rate, stops/mi	1.66				1.64		
3	Through vol/cap Ratio		0.90		0.25			
3	Percent of Base FFS	52.87			65.82			
3	Level of Service	С			С			
3	Auto Traveler Perception Score		2.62			2.61		
Multimoda	Results (Segment)							
3	Pedestrian Segment LOS Score / LOS	2.61		В	2.34		В	
3	Bicycle Segment LOS Score / LOS	3.55		D	3.42	2	С	
3	Transit Segment LOS Score / LOS	0.65		Α	0.40	)	Α	

Facility Output Data	Eastbound	Westbound
Facility Travel Time, s	300.32	150.09
Facility Travel Speed, mph	16.31	32.64
Facility Base Free Flow Speed, mph	41.69	43.18
Facility Percent of Base FFS	39.12	75.58
Facility Level of Service	E	В
Facility Auto Traveler Perception Score	2.55	2.35

Multimodal Results (Facility)							
Pedestrian Facility LOS Score / LOS	2.67	С	2.38	С			
Bicycle Facility LOS Score / LOS	3.52	D	3.41	С			
Transit Facility LOS Score / LOS	0.55	А	0.46	А			

HCS 2010 Urban Street Segment Report									
General Information				Streets Information					
Agency	Pennoni	Pennoni							
Analyst	MTD	Analysis Date	Oct 28, 2015	Number of Segments	3				
Jurisdiction	PennDOT	Time Period	PM	Number of Iterations	15				
File Name	50 & 51 & 53 PM.xus	Analysis Year	2015	System Cycle Length, s	80				
Intersections	Trenton Ave & Pennsylvania	Analysis Period	1> 7:00						
Project Description	Pre-Construction Traffic Stu	ıdv							

1400 ft	4344 ft	$\bigcirc$	1440 ft	
40 mph	35 mph		35 mph	

Through Lanes

						3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		5							
	EB	WB	EB	WB	EB	WB	EB	3	WB	EB	WB	EB	WB	EB	WB
3	35	35	1	1	1440	1440	69	9	70	0	0	0	0	0.0	0.0
					· 							· 			
							East	bound				Westbo	und		
Segment O	gment Output Data			EBL		E	EBT	EBR	2	WBL	WBT	Г	WBR		
Segment	nent Movement			5			2	12		1	6		16		
3	Bay/Lar	ne Spillba	oillback Time, h					ne	ever			never	neve	r	
3	Shared	Lane Spi	llback Tin	ne, h						neve	r	never			
3	Base Fr	ee-Flow	Speed, m	ph			41.45				41.45				
3	Running	g Time, s				26.67				27.19					
3	Running	g Speed,	mph			36.81				36.11					
3	Through	n Delay, s	/veh					6	.37			15.41			
3	3 Travel Time, s			33.04				42.60							
3 Travel Speed, mph				29.72				23.05							

0.42

1.54

0.48

71.70

Segment Length Intersection Wid

Length of RM

Percent Curb

0.63

2.32

0.75

55.61

Other Delay

3 Level of Service		В		С					
	3	Auto Traveler Perception Score	2.59		2.73				
	Multimodal Results (Segment)								
	3	Pedestrian Segment LOS Score / LOS	2.41	В	2.57	В			
	3	Bicycle Segment LOS Score / LOS	3.46	С	3.51	D			
	3	Transit Segment LOS Score / LOS	0.48	A	0.62	A			

Facility Output Data	Eastbound	Westbound
Facility Travel Time, s	333.82	173.52
Facility Travel Speed, mph	14.67	28.23
Facility Base Free Flow Speed, mph	41.69	43.18
Facility Percent of Base FFS	35.19	65.37
Facility Level of Service	E	С
Facility Auto Traveler Perception Score	2.58	2.40

Multimodal Results (Facility)							
Pedestrian Facility LOS Score / LOS	2.63	С	2.65	С			
Bicycle Facility LOS Score / LOS	3.50	С	3.53	D			
Transit Facility LOS Score / LOS	0.52	А	0.78	А			

**Basic Segment Information** 

Speed Limit

Stop Rate, stops/veh

Through vol/cap Ratio

Percent of Base FFS

Spatial Stop Rate, stops/mi

Segment

3

3

3

3

HCS 2010 Urban Street Segment Report										
General Information				Streets Information						
Agency	Pennoni	Pennoni								
Analyst	MTD	Analysis Date	Oct 28, 2015	Number of Segments	3					
Jurisdiction	PennDOT	Time Period	AM	Number of Iterations	15					
File Name	50 & 51 & 53 AM.xus	Analysis Year	2015	System Cycle Length, s	80					
Intersections	Trenton Ave & Big Oak Rd	Pennsylvania Av	e & Trenton Ave	Analysis Period	1> 7:00					
Project Description	Pre-Construction Traffic Study									

1400 ft	$\bigcirc$	4344 ft		1440 ft	
40 mph	Ú	35 mph	J.	35 mph	4

Percent Curb

3.43

0.21

3.41

0.46

Other Delay

С

Α

С

Ocginent	Opeci	u =111111	Tilloug	Lancs	Cognici	it Echigan	Length microcolon wid		Longa	I OI I VIVI	tivi i crociit ourb		Other Belay	
	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
2	35	40	1	1	4344	4344	38	67	0	0	0	0	0.0	0.0
					· 									
							E	astbound				Westbo	und	
Segment O	Segment Output Data					EBL		EBT	EBF	₹	WBL	WB	Γ	WBR
Segment						5		2	12		1	6		16
2	Bay/Lane Spillback Time, h					neve	r	1.16				neve	r	
2	Shared Lane Spillback Time, h					neve	r							
2	Base Free-Flow Speed, mph					41.00				43.34				
2	Running Time, s				76.33				70.06					
2	Running Speed, mph				38.80				42.27					
2	Through	n Delay, s	/veh				148.07				4.67			
2	Travel T	īme, s					224.40				74.73			
2	Travel S	Speed, m	ph			13.20					39.63			
2	Stop Ra	ite, stops	/veh			1.99				0.33				
2	Spatial	Stop Rate	e, stops/n	ni			2.42				0.40			
2	Through	n vol/cap	Ratio					1.26				0.26	3	
2	Percent	of Base	FFS					32.19				91.4	5	
2	Level of Service					F					Α			
2	2 Auto Traveler Perception Score					2.52				2.20				
Multimodal	Results	(Segmer	nt)	·	·									
2	Pedestrian Segment LOS Score / LOS						2.64		В		2.37	,		В

Segment Length Intersection Wid

Facility Output Data	Eastbou	und	Westbound					
Facility Travel Time, s	300.3	2	150.09					
Facility Travel Speed, mph	16.31		32.64					
Facility Base Free Flow Speed, mph	41.69	)	43.18					
Facility Percent of Base FFS	39.12		75.58					
Facility Level of Service	E		В					
Facility Auto Traveler Perception Score	2.55		2.35					
Multimodal Results (Facility)								
Pedestrian Facility LOS Score / LOS	2.67 C 2.38			С				

3.52

0.55

3.51

0.54

Bicycle Facility LOS Score / LOS

Transit Facility LOS Score / LOS

Bicycle Segment LOS Score / LOS

Transit Segment LOS Score / LOS

**Basic Segment Information** 

Speed Limit

Through Lanes

Segment

2

2

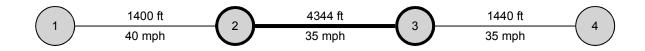
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Α

D

Α

HCS 2010 Urban Street Segment Report										
General Information				Streets Information						
Agency	Pennoni	Pennoni								
Analyst	MTD	Analysis Date	Oct 28, 2015	Number of Segments	3					
Jurisdiction	PennDOT	Time Period	PM	Number of Iterations	15					
File Name	50 & 51 & 53 PM.xus	Analysis Year	2015	System Cycle Length, s	80					
Intersections	Trenton Ave & Big Oak Rd	Trenton Ave & P	ennsylvania Ave	Analysis Period	1> 7:00					
Project Description	Pre-Construction Traffic Study									



Percent Curb

3.55

0.49

3.53

0.78

Other Delay

D

Α

D

Α

	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
2	35	40	1	1	4344	4344	38	67	0	0	0	0	0.0	0.0
						Eastbound						Westbo	und	
Segment O	utput Dat	ta				EBL		EBT	EBF	2	WBL	WBT		WBR
Segment						5		2	12		1	6		16
2	Bay/Lane Spillback Time, h				neve	r	1.07				neve	r		
2	Shared	Lane Spi	llback Tin	ne, h		neve	r							
2	Base Fr	ee-Flow	Speed, m	ıph				41.00				43.34	1	
2	Running	g Time, s				76.34					72.73			
2	Running	g Speed,	mph			38.80					40.73			
2	Through Delay, s/veh							193.60				7.30		
2	Travel T	īme, s				269.94					80.02			
2	Travel S	Speed, m	oh			10.97					37.01			
2	Stop Ra	ate, stops	/veh			2.32					0.41			
2	Spatial	Stop Rate	e, stops/n	ni				2.82				0.50		
2	Through	n vol/cap	Ratio					1.36				0.75		
2	Percent	of Base	FFS	·			·	26.76	·		·	85.40	)	
2	Level of	Service						F				Α		
2	Auto Tra	aveler Pe	rception	Score				2.58				2.21		
Multimodal	Multimodal Results (Segment)													
2	Pedestrian Segment LOS Score / LOS				.OS		2.65		В		2.71			В

Segment Length Intersection Wid

	*				
Facility Output Data		Eastbou	ınd	Westbo	ound
Facility Travel Time, s		333.82	2	173.5	52
Facility Travel Speed, mph		14.67		28.2	3
Facility Base Free Flow Speed, mph		41.69		43.1	8
Facility Percent of Base FFS		35.19		65.3	7
Facility Level of Service		E		С	
Facility Auto Traveler Perception Score		2.58		2.40	)
Multimodal Results (Facility)					
Pedestrian Facility LOS Score / LOS		2.63	С	2.65	С

3.50

0.52

3.51

0.54

Bicycle Facility LOS Score / LOS

Transit Facility LOS Score / LOS

Bicycle Segment LOS Score / LOS

Transit Segment LOS Score / LOS

**Basic Segment Information** 

Speed Limit

Through Lanes

Segment

2

2

D

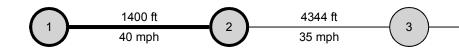
Α

С

Α

HCS 2010 Urban Street Segment Report												
General Information				Streets Information								
Agency	Pennoni			Number of Intersections	4							
Analyst	MTD	Analysis Date	Oct 28, 2015	Number of Segments	3							
Jurisdiction	PennDOT	Time Period	AM	Number of Iterations	15							
File Name	50 & 51 & 53 AM.xus	Analysis Year	2015	System Cycle Length, s	80							
Intersections	Trenton Ave & Pine Grove Rd	Trenton Ave & B	ig Oak Rd	Analysis Period	1> 7:00							
Project Description	Pre-Construction Traffic Study											

Through Lanes | Segment Length | Intersection Wid



Length of RM

Percent Curb

Other Delay

5			- 3												
	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	
1	40	40	1	2	1400	1400	77	37	450	450	0	0	0.0	0.0	
							Ea	stbound				Westbo	und		
Segment O	utput Dat	ta				EBL EBT EBR			2	WBL	WBT	-	WBR		
Segment	Moveme	ent				1		6	16		5	2		12	
1	Bay/Lane Spillback Time, h							never							
1	Shared Lane Spillback Time, h					neve	r								
1	Base Free-Flow Speed, mph							44.29				44.59	9		
1	Running Time, s							24.89				24.03	3		
1	Running Speed, mph							38.35				39.7	1		
1	Through	nrough Delay, s/veh					6.22					15.34			
1	Travel Time, s					31.11					39.37				
1	Travel Speed, mph							30.68				24.24	4		
1	Stop Ra	ite, stops	/veh			0.39						0.50			
1	Spatial	Stop Rate	e, stops/n	ni		1.45					1.89				
1	Through	n vol/cap	Ratio			0.57					0.23				
1	Percent	of Base	FFS			69.28						54.37	7		
1	Level of	Service						В				С			
1	Auto Tra	aveler Pe	rception S	Score				2.58				2.65			
Multimodal	Results	(Segmer	nt)												
1	Pedestr	ian Segm	nent LOS	Score / L	os		2.83		С		2.45			В	
1	Bicycle	Segment	LOS Sco	re / LOS			3.50		D		3.35			С	
1	Transit 9	Segment	LOS Sco	re / LOS			0.46		Α		1.28			A	
										<u> </u>					
Facility Output Data				Eastbound				Westbound							
Facility Tray	Facility Travel Time s 300.32 150.09														

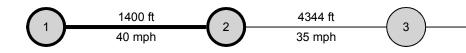
	****					
Facility Output Data	Eastbo	und	Westbound			
Facility Travel Time, s	300.3	2	150.0	9		
Facility Travel Speed, mph	16.31		32.6	4		
Facility Base Free Flow Speed, mph	41.69	)	43.1	8		
Facility Percent of Base FFS	39.12	2	75.58			
Facility Level of Service	E		В			
Facility Auto Traveler Perception Score	2.55		2.35			
			,			
Multimodal Results (Facility)						
Pedestrian Facility LOS Score / LOS	2.67	С	2.38	С		
Bicycle Facility LOS Score / LOS	3.52 D		3.41	С		
Transit Facility LOS Score / LOS	0.55	А	0.46	Α		

**Basic Segment Information** 

Speed Limit

Segment

HCS 2010 Urban Street Segment Report												
General Information				Streets Information								
Agency	Pennoni			Number of Intersections	4							
Analyst	MTD	Analysis Date	Oct 28, 2015	Number of Segments	3							
Jurisdiction	PennDOT	Time Period	PM	Number of Iterations	15							
File Name	50 & 51 & 53 PM.xus	Analysis Year	2015	System Cycle Length, s	80							
Intersections	Trenton Ave & Pine Grove Rd	Trenton Ave & B	ig Oak Rd	Analysis Period	1> 7:00							
Project Description	Pre-Construction Traffic Study											



EB WB

Percent Curb

EB WB

Other Delay

EB WB

		1110		1110		110		110		***		110		1110	
1	40	40	1	2	1400	1400	77	37	450	450	0	0	0.0	0.0	
						Eastbound						Westbo	und		
Segment C	utput Dat	ta				EBL EBT EBR				WBL	L WBT W		WBR		
Segment	Segment Movement					1		6	16		5	2		12	
1	Bay/Lane Spillback Time, h					nevei	r	never							
1	Shared	Lane Spi	llback Tin	ne, h		nevei	r								
1	Base Free-Flow Speed, mph					44.29					44.59				
1	Running Time, s				24.95						24.39	9			
1	Running	g Speed,	mph			38.26						39.13	3		
1	Through	n Delay, s	/veh			5.89					26.50				
1	Travel T	īme, s				30.84					50.90				
1	Travel S	Speed, m	oh					30.95				18.75	5		
1	Stop Ra	ite, stops	/veh					0.38				0.73	1		
1	Spatial	Stop Rate	e, stops/n	ni				1.41				2.76	i		
1	Through vol/cap Ratio					0.61					0.74				
1	Percent of Base FFS					69.88						42.06	3		
1	Level of Service					В				D					

Segment Length Intersection Wid

EB WB

1	Transit Segment LOS Score / LOS	0.48	Α	1.85	A		
Facility Out	tput Data	Eastbou	und	Westbo	und		
Facility Trav	vel Time, s	333.82	2	173.5	52		
Facility Trav	rel Speed, mph	14.67	•	28.23	3		
Facility Bas	e Free Flow Speed, mph	41.69	)	43.18			
Facility Perd	cent of Base FFS	35.19		65.37			
Facility Leve	el of Service	E		С			
Facility Auto	Traveler Perception Score	2.58		2.40			
Multimodal	Results (Facility)						
Pedestrian I	Facility LOS Score / LOS	2.63	С	2.65	С		
Bicycle Fac	ility LOS Score / LOS	3.50	С	3.53 D			

0.52

2.81

3.51

Transit Facility LOS Score / LOS

Auto Traveler Perception Score

Pedestrian Segment LOS Score / LOS

Bicycle Segment LOS Score / LOS

**Basic Segment Information** 

Speed Limit

EB WB

Through Lanes

Segment

1

1

**Multimodal Results (Segment)** 

2.57

С

D

2.81

В

С

2.56

3.45

				HCS	2010 L	Irban S	Street	Segme	nt Rep	ort					
General Inf	formation										Streets In	formation	1		
Agency		Pen	noni								Number of	Intersect	ions	9	
Analyst		MTE	D			Analys	sis Date	Oct 28	, 2015		Number of	Segment	s	8	
Jurisdiction		Pen	ndDOT			Time F	Period	AM			Number of	3	15		
File Name		65 8	& 68 & 69	9 AM.xus		Analys	sis Year	2015			System Cy	cle Lengt	h, s	105	
Intersection		_		y & Rt. 1		Oxford	Valley 8	Rt. 1 SB			Analysis P	eriod		1> 7	<u>′:00</u>
Project Des	cription	Pre-	-Constru	ction Tra	ffic Study										
946 40 m		6	)——	872 ft 55 mph		7		650 ft 55 mph	_(8		1526 40 m		_(	9	
Basic Segr	ment Informat	ion													
Segment	Speed Lir		Through	n Lanes	Segmen	t Lenath	Interse	ection Wid	Lenath	of RM	Percei	nt Curb	0	her D	)elav
J	<del>-</del>	SB B	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NE	11	SB
7		55	2	2	650	650	80	81	606	606	0	0	0.0	_	0.0
					"				"		1				
Segment O	output Data					NBL	-	orthbound NBT	NBF		SBL	Southbe SBT			BR
	Movement					1NDL	-	2	INDF		SBL	6	-		16
Segment 7		aillhac	sk Timo I	h		5		never				neve	r		10
7		/Lane Spillback Time, h red Lane Spillback Time, h				Hevel						11646	'		
7		red Lane Spillback Time, h e Free-Flow Speed, mph				53.04						53.0	5		
7	Running Tin		рсса, п	рп		13.18						13.0			
7	Running Sp		nph			33.62						33.9			
7	Through De					6.43						8.25			
7	Travel Time					19.61					21.31				
7	Travel Spee		h					22.60			20.80				
7	Stop Rate, s							0.21			0.26				
7	Spatial Stop			ni				1.69				2.15			
7	Through vol	/cap R	Ratio					0.45				0.20			
7	Percent of E	ase F	FS					42.61				39.2	1		
7	Level of Ser	vice						D				Е			
7	Auto Travele	er Pero	ception S	Score				2.40				2.70	)		
Multimoda	Results (Seg	gment	t)												
7	Pedestrian S	Segme	ent LOS	Score / L	.OS		3.51		D		3.35	,		С	
7	Bicycle Seg						3.48		С		3.41			С	
7	Transit Seg	ment L	_OS Sco	re / LOS	_		1.50		Α		1.59			Α	
Facility Ou	tput Data						No	orthbound		Т		Southbe	ound		
Facility Trav	/el Time, s							300.54				266.5	54		
Facility Trav	el Speed, mp	h						22.69				25.5	8		
Facility Bas	e Free Flow S	peed,	mph					46.24				45.6	1		
	cent of Base F	FS						49.07				56.1	0		
	el of Service							D				С			
Facility Auto	Traveler Per	ception	n Score					2.44				2.35	5		
Multimodal	I Results (Fac	ilityA													
	Facility LOS S		LOS				3.20		С		3.31			С	
	ility LOS Scor						3.43		С		3.44			C	
	ility LOS Scor						1.40				1.00				

1.40

			HCS	3 2010 L	Jrban S	Street	Segmei	nt Repo	ort					
General Inf	formation									Streets In	formation	1		
Agency		Pennoni								Number of	Intersect	ions	9	
Analyst		MTD			Analys	sis Date	Oct 28	, 2015		Number of	Segment	:S	8	
Jurisdiction		PenndDo	ОТ		Time F	Period	PM			Number of Iterations				
File Name		65 & 68	& 69 PM.xu	s	Analys	sis Year	2015			System Cy	cle Lengt	h, s	110	
Intersection	S		/alley & Rt.			Valley &	Rt. 1 SB			Analysis P	eriod		1> 7:0	)0
Project Des	cription	Pre-Cons	struction Tra	affic Study										
946 40 m		6	872 ft 55 mpl		7		550 ft 5 mph	_(8		1526 40 m			9	
Basic Segr	ment Informat	ion												
Segment	Speed Lin		ough Lanes	Seamen	nt Length	Interse	ction Wid	Length	of RM	Percei	nt Curb	Of	ther Del	lav
Cogmon		B NE	· ·	NB	SB	NB	SB	NB	SB	NB	SB	NE	- Ir	SB
7	-	5 2		650	650	80	81	606	606	0	0	0.0		0.0
		*	· ·		1	No	rthbound	,			Southbe	ound		
Segment C	outnut Data				NBL		NBT	NBF		SBL	SBT	1	SBI	R
Segment	Movement				5	-	2	INDI		JDL	6	-	16	
7		nillhack Tim	ne h		neve	ır	never				neve	r	10	,
7		ne Spillback Time, h d Lane Spillback Time, h			never					Heve	'			
7		d Lane Spillback Time, h Free-Flow Speed, mph			11646	1	53.04	<u> </u>			53.0	5		
7	Running Tim	•	2, 111p11		13.30						13.2			
7	Running Spe				33.31						33.50			
7	Through Del				11.99						20.09			
7	Travel Time,				25.30					33.29				
7	Travel Spee						17.52			13.31				
7	Stop Rate, s	<u> </u>					0.38			0.58				
7	Spatial Stop	•	os/mi				3.12			4.71				
7	Through vol						0.72				0.88			
7	Percent of B						33.03				25.09			
7	Level of Ser	vice					E				F			
7	Auto Travele	r Perception	on Score				2.63				3.17	•		
Multimoda	Results (Seg	ment)			,				,					
7	Pedestrian S	Segment Lo	OS Score /	LOS		3.66		D		3.55	i		D	
7	Bicycle Segr	ment LOS	Score / LOS	3		3.57		D		3.48	1		С	
7	Transit Segr	nent LOS	Score / LOS			2.03		В		2.44			В	
Facility Ou	tput Data					No	rthbound		Т		Southbo	ound		
Facility Trav	/el Time, s				Î		471.04				394.9	)1		
Facility Trav	el Speed, mpl	า					14.48				17.2	7		
Facility Bas	e Free Flow S	peed, mph					45.36				45.30	6		
Facility Per	cent of Base F	FS					31.92				38.0	7		
	el of Service						E				E			
Facility Auto	Traveler Pero	eption Sco	ore				2.52				2.51			
Multimoda	l Results (Fac	ilitv)												
	Facility LOS S		3			3.25		С		3.53	}			
	ility LOS Score					3.46		С		3.53			D	
	ility LOS Score					1 01				1.60				

1.81

HCS 2010 Urban Street Segment Report											
General Information				Streets Information							
Agency	Pennoni			Number of Intersections	9						
Analyst	MTD	Analysis Date	Oct 28, 2015	Number of Segments	8						
Jurisdiction	PenndDOT	Time Period	AM	Number of Iterations	15						
File Name	65 & 68 & 69 AM.xus	Analysis Year	2015	System Cycle Length, s	105						
Intersections	Oxford Valley & Rt. 1 SB	Oxford Valley & I	Big Oak	Analysis Period	1> 7:00						
Project Description	Pre-Construction Traffic Stud	У		**							

872 ft	7	650 ft		1526 ft	
55 mph		55 mph	Ů	40 mph	

	Basic Segm	Basic Segment Information													
	Segment	Speed Limit		Throug	Through Lanes Segment Ler		t Length	Intersection Wid		Length of RM		Percent Curb		Other Delay	
		NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
ı	8	40	55	1	3	1526	1526	81	75	1526	1526	0	0	0.0	0.0

Segment Ou			Northbound	ı	Southbound			
	ıtput Data	NBL	NBT	NBR	SBL	SBT	SBR	
Segment	Movement	5	2	12	1	6	16	
8	Bay/Lane Spillback Time, h	0.41	never			never		
8	Shared Lane Spillback Time, h	0.54		never			never	
8	Base Free-Flow Speed, mph		45.98			53.03		
8	Running Time, s		26.19			22.52		
8	Running Speed, mph		39.73			46.21		
8	Through Delay, s/veh		24.80		12.65			
8	Travel Time, s		50.99			35.16		
8	Travel Speed, mph		20.41			29.59		
8	Stop Rate, stops/veh		0.63		0.38			
8	Spatial Stop Rate, stops/mi	2.19			1.31			
8	Through vol/cap Ratio		0.53		0.32			
8	Percent of Base FFS		44.38		55.80			
8	Level of Service		D		С			
8	Auto Traveler Perception Score		2.48		2.34			
Multimodal I	Results (Segment)							
8	Pedestrian Segment LOS Score / LOS	4.18		D	3.04		С	
8	Bicycle Segment LOS Score / LOS	3.56		D	3.41		С	
8	Transit Segment LOS Score / LOS	1.84 A			0.99 A			

Facility Output Data	Northbound	Southbound
Facility Travel Time, s	300.54	266.54
Facility Travel Speed, mph	22.69	25.58
Facility Base Free Flow Speed, mph	46.24	45.61
Facility Percent of Base FFS	49.07	56.10
Facility Level of Service	D	С
Facility Auto Traveler Perception Score	2.44	2.35

Multimodal Results (Facility)				
Pedestrian Facility LOS Score / LOS	3.20	С	3.31	С
Bicycle Facility LOS Score / LOS	3.43	С	3.44	С
Transit Facility LOS Score / LOS	1.40	А	1.00	Α

	HCS 2010 Urban Street Segment Report												
General Information				Streets Information									
Agency	Pennoni			Number of Intersections	9								
Analyst	MTD	Analysis Date	Oct 28, 2015	Number of Segments	8								
Jurisdiction	PenndDOT	Time Period	PM	Number of Iterations	15								
File Name	65 & 68 & 69 PM.xus	Analysis Year	2015	System Cycle Length, s	110								
Intersections	Oxford Valley & Rt. 1 SB	Oxford Valley & E	Big Oak	Analysis Period	1> 7:00								
Project Description	Pre-Construction Traffic Study				*								

872 ft	7	650 ft		1526 ft	
55 mph		55 mph	Ů	40 mph	

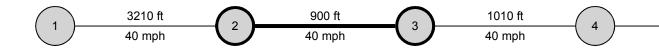
Basic Segm	Basic Segment Information													
Segment	Speed Limit		Throug	h Lanes	Segment Length		Intersection Wid		Length of RM		Percent Curb		Other Delay	
	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
8	40	55	1	3	1526	1526	81	75	1526	1526	0	n	0.0	0.0

			Northbound	d		Southboun	d	
Segment C	Output Data	NBL	NBT	NBR	SBL	SBT	SBR	
Segment	Movement	5	2	12	1	6	16	
8	Bay/Lane Spillback Time, h	never	never	never		never	Ì	
8	Shared Lane Spillback Time, h	never		never			never	
8	Base Free-Flow Speed, mph		45.98			53.03		
8	Running Time, s		26.91			22.61		
8	Running Speed, mph		38.66			46.01		
8	Through Delay, s/veh		21.49		27.52			
8	Travel Time, s		48.40			50.13		
8	Travel Speed, mph		21.50			20.75		
8	Stop Rate, stops/veh		0.64			0.67		
8	Spatial Stop Rate, stops/mi		2.20		2.33			
8	Through vol/cap Ratio		0.65		0.81			
8	Percent of Base FFS		46.75		39.14			
8	Level of Service		D		E			
8	Auto Traveler Perception Score		2.48			2.50		
Multimoda	Results (Segment)							
8	Pedestrian Segment LOS Score / LOS	4.47		E	3.30	)	С	
8	Bicycle Segment LOS Score / LOS	3.58		D	3.44	l e	С	
8	Transit Segment LOS Score / LOS	1.86	1.86 A			)	Α	

Facility Travel Time, s Facility Travel Speed, mph	471.04	394.91
Facility Travel Speed, mph		
	14.48	17.27
Facility Base Free Flow Speed, mph	45.36	45.36
Facility Percent of Base FFS	31.92	38.07
Facility Level of Service	E	E
Facility Auto Traveler Perception Score	2.52	2.51

Multimodal Results (Facility)										
Pedestrian Facility LOS Score / LOS	3.25	С	3.53	D						
Bicycle Facility LOS Score / LOS	3.46	С	3.53	D						
Transit Facility LOS Score / LOS	1.81	A	1.69	A						

	HCS 2010 Urban Street Segment Report											
General Information				Streets Information								
Agency	Pennoni			Number of Intersections	9							
Analyst	MTD	Analysis Date	Oct 28, 2015	Number of Segments	8							
Jurisdiction	PenndDOT	Time Period	AM	Number of Iterations	15							
File Name	65 & 68 & 69 AM.xus	Analysis Year	2015	System Cycle Length, s	105							
Intersections	Bristol Oxford Valley & Lincoln	Oxford Valley Rd	& S. Bucks Town Dr	Analysis Period	1> 7:00							
Project Description	Pre-Construction Traffic Study											



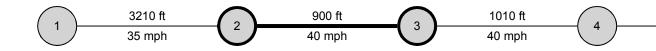
Basic Segm	Basic Segment Information													
Segment	Speed Limit		Throug	h Lanes	Segment Length		Intersection Wid		Length of RM		Percent Curb		Other Delay	
	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
2	40	40	2	2	900	900	80	70	900	900	0	0	0.0	0.0

			Northboun	d	Southbound				
Segment O	utput Data	NBL	NBT	NBR	SBL	SBT	SBR		
Segment	Movement	5	2	12	1	6	16		
2	Bay/Lane Spillback Time, h		never			never			
2	Shared Lane Spillback Time, h	never		never	never				
2	Base Free-Flow Speed, mph		46.05		46.03				
2	Running Time, s		16.89		16.86				
2	Running Speed, mph		36.32			36.40			
2	Through Delay, s/veh		9.71		14.00				
2	Travel Time, s		26.60		30.86				
2	Travel Speed, mph		23.07			19.88			
2	Stop Rate, stops/veh		0.43			0.40			
2	Spatial Stop Rate, stops/mi		2.54		2.32				
2	Through vol/cap Ratio		0.41			0.20			
2	Percent of Base FFS		50.09			43.20			
2	Level of Service		С			D			
2	Auto Traveler Perception Score		2.54			2.50			
Multimodal	Results (Segment)								
2	Pedestrian Segment LOS Score / LOS	3.10		С	3.60	)	D		
2	Bicycle Segment LOS Score / LOS	3.41		С	3.41		С		
2	Transit Segment LOS Score / LOS	1.40		Α	1.66	3	А		

Facility Output Data	Northbound	Southbound
Facility Travel Time, s	300.54	266.54
Facility Travel Speed, mph	22.69	25.58
Facility Base Free Flow Speed, mph	46.24	45.61
Facility Percent of Base FFS	49.07	56.10
Facility Level of Service	D	С
Facility Auto Traveler Perception Score	2.44	2.35

Multimodal Results (Facility)													
Pedestrian Facility LOS Score / LOS	3.20	С	3.31	С									
Bicycle Facility LOS Score / LOS	3.43	С	3.44	С									
Transit Facility LOS Score / LOS	1.40	A	1.00	A									

HCS 2010 Urban Street Segment Report												
General Information				Streets Information								
Agency	Pennoni			Number of Intersections	9							
Analyst	MTD	Analysis Date	Oct 28, 2015	Number of Segments	8							
Jurisdiction	PenndDOT	Time Period	PM	Number of Iterations	15							
File Name	65 & 68 & 69 PM.xus	Analysis Year	2015	System Cycle Length, s	110							
Intersections	Bristol Oxford Valley & Lincoln	Oxford Valley Rd	& S. Bucks Town Dr	Analysis Period	1> 7:00							
Project Description	Pre-Construction Traffic Study											



Basic Segm	ent Infor	mation												
Segment	Speed	d Limit	Throug	Through Lanes		t Length	Intersec	tion Wid	Length	of RM	Percer	nt Curb	Other Delay	
	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
2	40	35	2	2	900	900	80	70	900	900	0	0	0.0	0.0

			Northbound	l		Southboun	d		
Segment C	Output Data	NBL	NBT	NBR	SBL	SBT	SBR		
Segment	Movement	5	2	12	1	6	16		
2	Bay/Lane Spillback Time, h		never		never	10.58			
2	Shared Lane Spillback Time, h	never		never	never				
2	Base Free-Flow Speed, mph		46.05		43.68				
2	Running Time, s		16.90		17.93				
2	Running Speed, mph		36.31		34.23				
2	Through Delay, s/veh		23.60		53.26				
2	Travel Time, s		40.51		71.18				
2	Travel Speed, mph		15.15			8.62			
2	Stop Rate, stops/veh		0.58			0.99			
2	Spatial Stop Rate, stops/mi		3.42		5.82				
2	Through vol/cap Ratio		0.50			1.01			
2	Percent of Base FFS		32.90			19.74			
2	Level of Service		Е			F			
2	Auto Traveler Perception Score		2.68			3.12			
Multimoda	Results (Segment)								
2	Pedestrian Segment LOS Score / LOS	3.24		С	2.84		С		
2	Bicycle Segment LOS Score / LOS	3.42		С	3.50		D		
2	Transit Segment LOS Score / LOS	2.16		В	3.12		С		

Facility Output Data	Northbound	Southbound
Facility Travel Time, s	471.04	394.91
Facility Travel Speed, mph	14.48	17.27
Facility Base Free Flow Speed, mph	45.36	45.36
Facility Percent of Base FFS	31.92	38.07
Facility Level of Service	E	E
Facility Auto Traveler Perception Score	2.52	2.51

Multimodal Results (Facility)				
Pedestrian Facility LOS Score / LOS	3.25	С	3.53	D
Bicycle Facility LOS Score / LOS	3.46	С	3.53	D
Transit Facility LOS Score / LOS	1.81	А	1.69	А

				HCS	2010 U	Irhan S	Stree	et Se	amer	nt Reno	ort							
			_		2010	T Dair C	) (i ) (i	J. UU,	9	it itopt	,,,	_	_					
General Inf	formation											Streets In	formation	1				
Agency		Pe	nnoni								1	Number of	Intersect	ions	9			
Analyst		М	TD			Analys	sis Da	ate (	Oct 28,	2015	1	Number of	Segment	:S	8			
Jurisdiction		Pe	enndDOT			Time F	Period	d h	AM		1	Number of	Iterations	5	15			
File Name		65	& 68 & 6	9 AM.xus		Analys	sis Ye	ar 2	2015			System Cy	cle Lengt	h, s	10	5		
Intersection	s	Ох	ford Valle	y Rd & S	. Bucks To	ov Oxford	Valle	y Rd &	N. Buc	ks Town	Dr A	Analysis P	eriod		1>	7:00		
Project Des	cription	Pro	e-Constru	ction Tra	ffic Study													
3210 40 m		2	)——	900 ft 40 mph	(	3)-		1010 40 m		(A	)—	887 40 m		-(	5	<del> </del>		
	nent Inform		T		0		1			1 11	. ( D) (		10 1		0	Dul		
Segment	Speed L		Through	ır		nt Length Inte		rsection		Length			nt Curb	1		Delay		
3	NB 40	SB 40	NB 2	SB 2	NB 1010	1010 1		_	SB 65	NB 1010	SB 1010	NB 0	SB 0	NI		SB 0.0		
3						1010	10		03	1010	1010	0	0 0		0.0 0.0			
								Northb	oound				Southbo	ound				
Segment O	utput Data					NBL	_	NE	3Т	NBR		SBL	SBT	- [		SBR		
Segment	Movement	t				5		2	2	12		1	6			16		
3	Bay/Lane	Spillba	ck Time,	h		nev			/er				neve	r				
3	Shared La	ne Spi	illback Tin	ne, h		never				neve	-	never			r	never		
3	Base Free	-Flow	Speed, m	ph		46.06							46.00	0				
3	Running T	īme, s				18.29							18.2°	7				
3	Running S	speed,	mph					37.6	65				37.69	9				
3	Through D	elay, s	s/veh					19.	14			7.97						
3	Travel Tim	ie, s						37.4	43			26.24						
3	Travel Spe	eed, m	ph					18.4	40				26.2	4				
3	Stop Rate	, stops	/veh					0.6	64				0.32	2				
3	Spatial Sto	op Rate	e, stops/m	ni				3.3	37				1.66	;				
3	Through v							0.4					0.15					
3	Percent of		FFS					39.9					57.0	5				
3	Level of S							E					С					
3	Auto Trave		<u> </u>	Score				2.6	88				2.39	)				
	Results (S			0 /1	00		0.50							ı				
3	Pedestriar						3.53			D		3.43						
3	Bicycle Se Transit Se						3.42 1.83			C A		3.40 1.14		<u>                                       </u>	C			
Encility Ou	tnut Data							Northb	a und				Southbe					
Facility Ou Facility Trav	-							300.					266.5					
		nh						22.6					25.5					
	Facility Travel Speed, mph  Facility Base Free Flow Speed, mph							46.2					45.6					
	Facility Percent of Base FFS												56.10					
	Facility Level of Service						49.07 D						C					
	Traveler Pe		on Score			2.44						2.35						
Multimodal	l Results (Fa	acility	)															
	Facility LOS					3.20 C				3.31			;					
	ility LOS Sco						3.43			С		3.44			С			
									_							C		

1.40

				HCS	2010 U	rhan S	Stree	et Se	amer	nt Reno	ort						
	_		_		2010 0	- Dair C	,		giiioi	it itop	,,,	_	_				
General Inf	formation											Streets In	formation	1			
Agency		Pe	nnoni								1	Number of	Intersecti	ions	9		
Analyst		M				Analys	sis Da	ate	Oct 28,	2015	1	Number of	Segment	:S	8		
Jurisdiction		Pe	nndDOT			Time F		_	PM			Number of			15		
File Name		65	& 68 & 6	9 PM.xus		Analys	sis Ye	ar	2015		9	System Cy	cle Lengt	h, s	110	0	
Intersection	s	Ох	ford Valle	y Rd & S	. Bucks To	ov Oxford	Valle	y Rd &	N. Buc	kstown E	r A	Analysis P	eriod		1>	7:00	
Project Des	cription	Pro	e-Constru	ction Tra	ffic Study												
3210 35 m		2	)——	900 ft 40 mph	(	3		1010 40 m				887 40 m		_(	5	}	
	ment Informa		I														
Segment	Speed Li		Through	ır				rsectio		Length			nt Curb	1		Delay	
2	NB 40	SB 40	NB	SB	NB 1010	SB	NI	_	SB	NB	SB	NB	SB	NI		SB	
3	3   40   40   2   2   101					1010	10	00	65	1010	1010	0	0	0 0.0		0.0	
						Nort			bound				Southbo	ound			
Segment O	output Data					NBL	11		BT	NBR		SBL	SBT	-		SBR	
Segment	Movement							2	2	12		1	6	<u> </u>		16	
3	Bay/Lane S	Spillba	ick Time,	h		0.44 neve			ver			never	neve	_		never	
3	Shared Lar					3.00				never		never				never	
3	Base Free-					46.06							46.00	0			
3	Running Ti		, ,	•		18.51							18.6	7			
3	Running S <sub>I</sub>	peed,	mph		i	37.20							36.88	8			
3	Through D	elay, s	s/veh		ĺ			23.	15				35.26	6			
3	Travel Time	e, s						41.	67			53.94					
3	Travel Spe	ed, m	ph		Ì			16.	53				12.7	7			
3	Stop Rate,	stops	/veh		İ			0.5	59				0.79	)			
3	Spatial Sto			ni				3.0	07				4.12	2			
3	Through vo	ol/cap	Ratio					0.6	62				0.98	3			
3	Percent of	Base	FFS					35.	88				27.7	5			
3	Level of Se	rvice						Е					F				
3	Auto Trave	ler Pe	rception S	Score				2.6	32				2.81				
Multimodal	l Results (Se	gmer	nt)														
3	Pedestrian	Segn	nent LOS	Score / L	os		2.72			В		3.52				)	
3	Bicycle Seg	gment	LOS Sco	re / LOS			3.48			С		3.50				)	
3	Transit Seg	gment	LOS Sco	re / LOS		_	2.09	-	_	В		2.56			E	3	
Facility Ou	-								bound				Southbo	ound			
Facility Trav								471					394.9				
Facility Travel Speed, mph								14.					17.2				
Facility Base Free Flow Speed, mph						45.36							45.36				
	Facility Percent of Base FFS Facility Level of Service						31.92						38.07	7			
	el of Service  Traveler Pe	rception	on Score					2.5					E 2.51				
	Results (Fa					2.25				2.50							
	Facility LOS						3.25			С		3.53			D D		
Bicycle Fac	Bicycle Facility LOS Score / LOS							3.46			С		3.53			,	

1.81

				HCS	2010 U	rban S	Stree	et Sec	ımer	nt Rend	ort						
				1.00				,	J	it itop							
General Inf	formation										:	Streets In	formation	1			
Agency		Pe	ennoni									Number of	Intersect	ions	9		
Analyst		М	TD			Analys	sis Da	te C	Oct 28,	2015		Number of	Segment	:S	8		
Jurisdiction		Pe	enndDOT			Time F	Period	Α	λM			Number of	Iterations	 S	15		
File Name		65	& 68 & 6	9 AM.xus		Analys	sis Yea	ar 2	2015		:	System Cy	cle Lengt	h, s	10	5	
Intersection	S	Ох	rford Valle	y Rd & N	. Bucks To	Oxford	Valley	y Rd &	Comm	erce Blv	ı t	Analysis P	eriod		1>	7:00	
Project Des	cription	Pro	e-Constru	ction Tra	ffic Study												
900 40 m		3	)——	1010 ft 40 mph		4		887 f 40 mp		_(5		946 40 m		-(	6		
	41.6																
	nent Inform		Theresses	h L on a s	Common	t I on oth	lete:	rsection	\ \ \ /: ~l	المصمدا-	of DN4	Davas	ot Cumb		be-	Dolov	
Segment	Speed L		_	h Lanes				ı		Length			nt Curb	1	10	Delay	
4	NB 40	SB 40	NB 2	SB 2	NB 887	SB N 887 6			SB 65	NB 887	SB 887	NB 0	SB 0	0.	$\rightarrow$	SB 0.0	
														0.0 0.0			
Segment O	Lutnut Data					NBL NBL			ound	NBR		SBL	Southbe SBT			SBR	
	Movemen	4				1NDL	-	NB 2				1	6	1		16	
Segment 4			ok Timo	h					never		12			ar l		10	
	Bay/Lane					2010	r	nev	eı			novor	neve	I I		201401	
4	Shared La					never 46.02						never	40.0	2	1	never	
4	Base Free			pn									46.02 16.7				
4	Running T Running S					16.72 36.18							36.19				
4	Through D							0.89					9.96				
4	Travel Tim		5/ VEII					17.6				26.67					
4	Travel Spe		nh					34.3				26.67					
4	Stop Rate		-					0.0					0.35				
4	Spatial Sto			ni				0.0					2.09				
4	Through v			11				0.13					0.37				
4	Percent of							74.6					49.2				
4	Level of S		113					74.0 B	) <del>-1</del>				49.2 D	1			
4	Auto Trave		ercention S	Score				2.1	7				2.46	`			
	Results (S		<u> </u>	30010				۷. ۱	'				2.40				
4	Pedestriar			Score / L	os		3.42			С		3.69	)			)	
4	Bicycle Se						3.41			C		3.40			C		
4	Transit Se						0.61			A		1.42			А		
Facility Ou	tput Data							Northb	ound				Southbo	ound			
Facility Trav	-							300.					266.5				
	/el Speed, m	nph						22.6	69				25.58	8			
-	Facility Base Free Flow Speed, mph							46.2					45.6				
	cent of Base					49.07							56.10	0			
Facility Leve	el of Service	:				D							С				
Facility Auto	Traveler Pe	erception	on Score			2.44							2.35	5			
Multimoda	Results (F	acility	)														
	Facility LOS		-			3.20 C				3.31		C	;				
	ility LOS Sco						3.43			С		3.44		Ì	С		
						3.43 C											

1.40

				HCS	2010 U	rban S	Stree	et Sec	amer	nt Repo	ort					
									,							
General Inf	formation											Streets In	formation	1		
Agency		Pe	nnoni									Number of	Intersect	ions	9	
Analyst		М	TD			Analys	sis Da	te C	Oct 28,	2015		Number of	Segment	S	8	
Jurisdiction		Pe	nndDOT			Time F	Period	F	PM		Ì	Number of	Iterations	3	15	
File Name		65	& 68 & 6	9 PM.xus	;	Analys	sis Yea	ar 2	2015			System Cy	cle Lengt	h, s	11	0
Intersection	S	Ох	ford Valle	y Rd & N	l. Bucksto	w Oxford	Valley	y Rd &	Comm	erce Blv	. t	Analysis P	eriod		1>	7:00
Project Des	cription	Pro	e-Constru	ction Tra	ffic Study											
900 40 m		3	)——	1010 ft 40 mph		4		887 t		<u> </u>		946 40 m		_(	6	)——
	ment Inform		T													
Segment	Speed L		1	h Lanes				rsection		Length			nt Curb	-		Delay
4	NB 40	SB 40	NB 2	SB 2	NB 887	SB N			SB 65	NB	SB 887	NB	SB 0	NI	_	SB
4	4 40 40 2 2 007					887	65	)	05	887	887	0	U	0.0 0.0		0.0
							l n						Southb	ound		
Segment O	utput Data					NBL		NB		NBR		SBL	SBT	-		SBR
Segment	Movement	t				5		2		12		1	6			16
4	Bay/Lane	Spillba	ck Time,	h		n			er			never	never		never	
4	Shared La					never						never		never		never
4	Base Free					46.02							46.0	2		
4	Running T			•		16.97							16.9	8		
4	Running S					35.63							35.6	1		
4	Through D	elay, s	s/veh					10.8	37			45.63				
4	Travel Tim	ne, s						27.8	35			62.61				
4	Travel Spe	eed, m	ph					21.7	72				9.66	3		
4	Stop Rate	, stops	/veh					0.2	3				0.91			
4	Spatial Sto			ni				1.3	8				5.44			
4	Through v							0.8					0.92	2		
4	Percent of	Base	FFS					47.1	19				20.9	9		
4	Level of S	ervice						D					F			
4	Auto Trave	eler Pe	rception S	Score				2.3	5				3.05	5		
Multimodal	l Results (S	egmer	nt)													
4	Pedestriar	n Segn	nent LOS	Score / L	.OS		3.57			D		3.78	3			)
4	Bicycle Se	gment	t LOS Sco	re / LOS			3.48			С		3.49				C
4	Transit Se	gment	LOS Sco	re / LOS		-	1.60	-		Α		2.94				C
Facility Ou	-							Northb					Southb	ound		
Facility Trav								471.					394.9			
	Facility Travel Speed, mph							14.4					17.2			
	Facility Base Free Flow Speed, mph							45.3					45.3			
	Facility Percent of Base FFS						31.92						38.0	7		
	Facility Level of Service Facility Auto Traveler Perception Score						E 2.52					E 2.51				
Multimodal	l Resulte /F	acility'	)													
	Multimodal Results (Facility) Pedestrian Facility LOS Score / LOS							3.25 C				3.53		Г		
	•											3.53		D		
Dicycle Fac	cycle Facility LOS Score / LOS							3.46		С		3.53			,	

1.81

				HCS	2010 U	rhan <sup>Q</sup>	Stro	ot So	amar	nt Rane	nrt .					
				1100	2010 0	i Daii C	Jue	et Se	giiiei	it itepi	Jιι					
General Inf	ormation											Streets In	formation			
Agency	Officiation	Pe	ennoni									Number of			9	
Analyst			TD			Analys	sis Da	ate (	Oct 28,	2015	_	Number of			8	
Jurisdiction			enndDOT			Time F			AM	2010		Number of			15	
File Name			5 & 68 & 6	9 AM xus		Analys			2015			System Cy			105	
Intersections	 S				ommerce					Blvd		Analysis P		, •		7:00
Project Des			e-Constru					7 . 10. 01					J. 10 G			
1010 40 m	) ft	4	)—	887 ft 40 mph	(	5		946 40 m		—(E		872 55 m		_(	7	
Racio Sogn	ont Infor	mation														
Basic Segn Segment	Speed		Throug	h Lanes	Segmen	t I enath	Into	ersection	n Wid	Length	of RM	Perco	nt Curb		ther I	Delay
Segment	NB	SB	NB	SB	NB	SB	N	T T	SB	NB	SB	NB	SB	NI	10	SB
5	40	40	2	2	946	946	6		85	946	946	0	0	0.	_	0.0
	40	40			340	340			00	946 94				0.		0.0
								North	oound	d			Southbo	ound		
Segment O	utput Dat	a				NBL		NE	ЗТ	NBR		SBL	SBT		SBR	
Segment	Moveme					5		2	2	12		1	6			16
5					never						neve	r				
5					never				never							
5	Base Fr	ee-Flow	Speed, m	ıph		46.01						46.0	5			
5	Running					17.51							17.5°	1		
5	Running					36.83							36.84			
5	Through	-				19.22						0.39				
5	Travel T							36.				17.90				
5	Travel S		nph					17.					36.04			
5	Stop Ra	-	-					0.5					0.01			
5	1		e, stops/n	ni				2.9					0.06			
5	Through							0.4					0.28			
5	Percent							38.					78.2			
5	Level of							E					В			
5			erception	Score				2.6					2.15			
Multimodal																
5	V		nent LOS	Score / L	.os		3.45			С		3.14			С	;
5							3.43			С		3.43			С	;
5						1.94			Α		0.54			Α		
Facility Out	ility Output Data							North	oound				Southbo	ound		
	acility Travel Time, s							300					266.5			
	acility Travel Speed, mph							22.	69				25.58	3		
Facility Base			d, mph					46.					45.6			
Facility Perc			<u> </u>			49.07						56.10				
Facility Leve						D					C C					
	Facility Auto Traveler Perception Score					2.44					2.35					
Multimodal Results (Facility)																
Pedestrian Facility LOS Score / LOS				3.20 C 3.3			3 31	3.31 C								
	•									3.31		C				
Dioyole i aci	icycle Facility LOS Score / LOS				3.43				3.		J. <del>4</del> 4			U		

1.40

				HCS	2010 U	rhan <sup>Q</sup>	Stro	ot Soc	mor	nt Rane	nrt .					
				1103	2010 0	i Daii C	) LI E	er oet	Jillei	it Kep	JI L					
General Inf	ormation											Streets In	formation	`		
Agency	omation	Pe	ennoni									Number of			9	
Analyst			TD			Analys	sis Da	ate C	Oct 28	2015	_	Number of			8	
Jurisdiction			enndDOT			Time F			PM			Number of			15	
File Name			8 68 & 6	9 PM.xus	<b>.</b>	Analys			2015			System Cy			110	)
Intersections	 S				ommerce					Blvd		Analysis P		, -	_	7:00
Project Des	cription		e-Constru	-				J								
1010 40 m		4	)—	887 ft 40 mph		5		946 f 40 mp		—(e		872 55 m		_(	7	
Basic Segn			T =:						\ A ("		(5)(					
Segment	Speed		_	h Lanes	Segmen		_	rsection		Length			nt Curb	1	10	Delay
	NB	SB	NB	SB	NB	SB	NI		SB	NB	SB 946	NB	SB	N	_	SB
5	40	40	2	2	946	946	6	5	85	5 946 9		0	0	0.	U	0.0
							Northbound		d			Southbo	ound			
Segment O	utput Dat	а				NBL			T	NBF		SBL	SBT		SBR	
Segment	Moveme					5		2		12		1	6			16
_	5 Bay/Lane Spillback Time, h					never						•	neve	r		
	5 Bay/Lane Spillback Time, h 5 Shared Lane Spillback Time, h				never				never							
5	<del></del>		Speed, m			46.01					46.05					
5	Running			ipii		17.83							17.9			
5	Running					36.17							35.9			
5	Through					11.24						0.68				
5	Travel T		3, 7011					29.0				18.64				
5	Travel S		nh					22.1					34.60			
5	Stop Ra		-					0.20					0.00			
5	1		e, stops/n	ni				1.4					0.02			
5	Through		<u> </u>	· · ·				0.70					0.39			
5	Percent							48.2					75.1			
5	Level of							D					В			
5			erception	Score				2.30					2.14			
Multimodal																
5	1		nent LOS	Score / L	.os		3.73		Т	D		3.51			D	,
5							3.50			С		3.56	<b>i</b>		D	,
5						1.74			Α		0.77	•		А		
Facility Out	ity Output Data							Northb	ound				Southbo	ound		
	cility Travel Time, s							471.0					394.9			
	acility Travel Speed, mph							14.4	18				17.2	7		
Facility Base			d, mph					45.3	36				45.30	6		
Facility Perc	ent of Bas	se FFS						31.9	92				38.0	7		
Facility Leve	of Service	ce				E					E					
Facility Auto	Traveler	Percepti	on Score			2.52					2.51					
Multimodal Results (Facility)																
Pedestrian Facility LOS Score / LOS							3.53 D		)							
·				3.25 C 3.46 C				3.53								
-,	Bicycle Facility LOS Score / LOS											3.53				

1.81

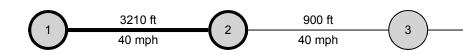
				HCS	2010 U	rhan S	Stre	et Se	amer	nt Rene	ort					
	_		_		2010 0	- Dair C	) (i ) (i		gilloi	it itop		_	_			
General Inf	ormation										:	Streets In	formation	1		
Agency		Pe	ennoni									Number of	Intersecti	ions	9	
Analyst		M	TD			Analys	sis Da	ate	Oct 28,	2015	1	Number of	Segment	:S	8	
Jurisdiction		Pe	enndDOT			Time F	Period	d	AM			Number of	Iterations	 S	15	
File Name		65	& 68 & 6	9 AM.xus		Analys	sis Ye	ar	2015		:	System Cy	cle Lengt	h, s	105	5
Intersection	s	Ох	kford Valle	y Rd & C	abot Blvd	Oxford	Valle	y & Rt	t. 1 NB			Analysis P	eriod		1>	7:00
Project Des	cription	Pro	e-Constru	ction Tra	ffic Study											
887 40 m		5	)—	946 ft 40 mph	(	6		872 55 n		<b>—</b> (7	)	650 55 m		-(	8	
	nent Inform		T		0		1		100	1			10 1			D. I.
Segment	Speed L		_	h Lanes	Segmen		_	1	on Wid	_	of RM		nt Curb	1	10	Delay
6	NB 55	SB 40	NB 3	SB 2	NB 872	SB 872	N 6		SB 70	NB 0	SB 0	NB 0	SB 0	0.	-	SB 0.0
	- 00	70			072	072			70	U						0.0
						Northbound					Southbo	-				
Segment O	utput Data					NBL		N	IBT	NBF	2	SBL	SBT	-	;	SBR
Segment	Bay/Lane Spillback Time, h								2	12		1	6			
6							ne	ever			neve					
6	Shared Lane Spillback Time, h								neve	r _	never					
6	Base Free-Flow Speed, mph							.45				44.40				
6						15.40							17.06			
6		•				38.61							34.8			
6	Through D		s/veh			21.56						19.32				
6	Travel Tim	· ·							.96			36.38				
6	Travel Spe		-						.09				16.34			
6	Stop Rate								.57				0.55			
6	Spatial Sto	•		ni					42				3.32			
6	Through v								63				0.55			
6	Percent of		FFS						.27				36.8	1		
6	Level of So Auto Trave		roontion	Cooro					.93				E 2.67	,		
	Results (Se			Score				۷.	.93				2.07			
6	Pedestriar			Score / L	OS		3.38			С		3.52	<u> </u>	Ι	D	1
6	Bicycle Se						3.41			С		3.46			C	
6	Transit Se						2.06			В		2.08			В	
Facility Ou	y Output Data						North	bound				Southbo	ound			
	cility Travel Time, s							300	0.54				266.5	 54		
Facility Trav	cility Travel Speed, mph						22	69				25.58	8			
Facility Bas	ility Base Free Flow Speed, mph							46	.24				45.6°	1		
Facility Perd	cent of Base	FFS						49	.07				56.10	0		
Facility Leve	Facility Level of Service					D						С				
Facility Auto Traveler Perception Score					2.44					2.35						
Multimodal Results (Facility)			<u> </u>													
Pedestrian Facility LOS Score / LOS			3.20 C				3.31		С	;						
							3.43			С		3.44		Ì	С	
	Bicycle Facility LOS Score / LOS							_								

1.40

				HCS	2010 U	rhan S	Stree	et Se	amer	nt Rene	ort					
		-		1100	2010 0	ı bull c	) (i C (		gillei	птор						
General Inf	formation											Streets In	formation	1		
Agency		Pe	ennoni								Ī	Number of	Intersect	ions	9	
Analyst		M	TD			Analys	sis Da	ate	Oct 28,	2015		Number of	Segment	s	8	
Jurisdiction		Pe	enndDOT			Time F	Period	t	PM		Ī	Number of	Iterations	3	15	
File Name		65	& 68 & 6	9 PM.xus		Analys	sis Ye	ar	2015			System Cy	cle Lengt	h, s	110	)
Intersection	s	Ох	rford Valle	y Rd & C	abot Blvd	Oxford	Valle	y & Rt	. 1 NB		1	Analysis P	eriod		1>	7:00
Project Des	cription	Pro	e-Constru	ction Tra	ffic Study											
887 40 m		5	)——	946 ft 40 mph	(	6		872 55 m		<b>—</b> (7		650 55 m		-(	8	
Basic Segr			1		_							1 -				
Segment	Speed I		_	h Lanes	Segment			rsectio		_	of RM		nt Curb	1	11	Delay
	NB	SB	NB	SB	NB	SB	N		SB	NB	SB	NB	SB	NI	-	SB
6	55	40	3	2	872	872	50	0	50	0	0	70	70 0.0		U	0.0
						Northboun			bound				Southbe	ound		
Segment O	output Data					NBL NBT NBR				SBL	Southbound SBT			SBR		
Segment	Movemen	t							2	12		1	6			
6	Bay/Lane Spillback Time, h								42	· <del>-</del>		neve				
-	6 Bay/Lane Spillback Time, h 6 Shared Lane Spillback Time, h								never							
6							51	.12			110 1 01	44.0	7			
6	Running 1			рп		15.63							17.40			
6	Running S					38.04							34.00			
6	Through [					161.91						11.45				
6	Travel Tim								7.54			28.91				
6	Travel Sp		ph						35				20.5			
6	Stop Rate		•						68				0.41			
6	Spatial St			ni					.20				2.47			
6	Through v								29				0.67			
6	Percent of								55				46.6			
6	Level of S								F				D			
6	Auto Trav		erception S	Score					25				2.52	2		
Multimodal																
6	Pedestria			Score / L	os		3.34			С		3.75	;		D	1
6							3.47			С		3.54			D	
6	Bicycle Segment LOS Score / LOS Transit Segment LOS Score / LOS					3.95			D		1.77	•		A		
Facility Ou	ty Output Data						North	bound				Southbo	ound			
Facility Trav	cility Travel Time, s							471	1.04				394.9	)1		
Facility Trav	acility Travel Speed, mph acility Base Free Flow Speed, mph							14.	.48				17.2	7		
Facility Bas	e Free Flow	Speed	d, mph			45.36							45.30	6		
Facility Per	cent of Base	FFS				31.92					38.07					
Facility Level of Service					E						E					
Facility Auto Traveler Perception Score				2.52				2.51								
Multimodal Results (Facility)																
Pedestrian Facility LOS Score / LOS			3.25 C				3.53		D							
							3.46			С		3.53			D	
	Bicycle Facility LOS Score / LOS															

1.81

HCS 2010 Urban Street Segment Report											
·											
General Information				Streets Information							
Agency	Pennoni			Number of Intersections	9						
Analyst	MTD	Analysis Date	Oct 28, 2015	Number of Segments	8						
Jurisdiction	PenndDOT	Time Period	AM	Number of Iterations	15						
File Name	65 & 68 & 69 AM.xus	Analysis Year	2015	System Cycle Length, s	105						
Intersections	Bristol Oxford Valley & Trer	nton F Bristol Oxford Va	alley & Lincoln	Analysis Period	1> 7:00						
Project Description	Pre-Construction Traffic Stu	udv									



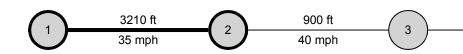
Basic Segm	nent Info	rmation												
Segment	Speed	d Limit	Throug	h Lanes	Segmen	t Length	Intersec	tion Wid	Length	of RM	Percer	nt Curb	Other	Delay
	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
1	40	35	2	1	3210	3210	83	78	286	286	0	0	0.0	0.0

			Northbound			Southbound	1	
Segment C	Output Data	NBL	NBT	NBR	SBL	SBT	SBR	
Segment	Movement	5	2	12	1	6	16	
1	Bay/Lane Spillback Time, h		never			never	0.14	
1	Shared Lane Spillback Time, h			never	never		2.46	
1	Base Free-Flow Speed, mph		44.21			41.53		
1	Running Time, s		51.13			55.22		
1	Running Speed, mph		42.80			39.64		
1	Through Delay, s/veh		23.47		16.80			
1	Travel Time, s		74.60		72.02			
1	Travel Speed, mph		29.34			30.39		
1	Stop Rate, stops/veh		0.59			0.34		
1	Spatial Stop Rate, stops/mi		0.97		0.56			
1	Through vol/cap Ratio		0.26		0.09			
1	Percent of Base FFS		66.36			73.18		
1	Level of Service		С			В		
1	Auto Traveler Perception Score		2.29			2.22		
Multimoda	l Results (Segment)							
1	Pedestrian Segment LOS Score / LOS	2.42		В	3.21		С	
1	Bicycle Segment LOS Score / LOS	3.38		С	3.49	)	С	
1	Transit Segment LOS Score / LOS	0.92		Α	0.38	3	Α	

<u> </u>			4	
Facility Output Data	Northbo	und	Southbo	ound
Facility Travel Time, s	300.54	-	266.5	54
Facility Travel Speed, mph	22.69		25.58	8
Facility Base Free Flow Speed, mph	46.24		45.6	1
Facility Percent of Base FFS	49.07		56.10	0
Facility Level of Service	D		С	
Facility Auto Traveler Perception Score	2.44		2.35	5
				·
Multimodal Results (Facility)				
Dedectrics Facility LOO Coope / LOO	2.00	0	2.24	

Multimodal Results (Facility)				
Pedestrian Facility LOS Score / LOS	3.20	С	3.31	С
Bicycle Facility LOS Score / LOS	3.43	С	3.44	С
Transit Facility LOS Score / LOS	1.40	А	1.00	Α

HCS 2010 Urban Street Segment Report											
General Information				Streets Information							
Agency	Pennoni			Number of Intersections	9						
Analyst	MTD	Analysis Date	Oct 28, 2015	Number of Segments	8						
Jurisdiction	PenndDOT	Time Period	PM	Number of Iterations	15						
File Name	65 & 68 & 69 PM.xus	Analysis Year	2015	System Cycle Length, s	110						
Intersections	Bristol Oxford Valley & Trer	nton F Bristol Oxford Va	alley & Lincoln	Analysis Period	1> 7:00						
Project Description	Pre-Construction Traffic Stu	vbı		*							



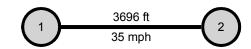
Basic Segm	ent Info	rmation												
Segment	Speed	d Limit	Throug	h Lanes	Segmen	t Length	Intersec	tion Wid	Length	of RM	Percer	nt Curb	Other	Delay
	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
1	35	35	2	1	3210	3210	83	78	286	286	0	0	0.0	0.0

			Northbound	t		Southboun	d	
Segment C	Output Data	NBL	NBT	NBR	SBL	SBT	SBR	
Segment	Movement	5	2	12	1	6	16	
1	Bay/Lane Spillback Time, h		never			never	0.01	
1	Shared Lane Spillback Time, h			never	never		0.24	
1	Base Free-Flow Speed, mph		41.86			41.53		
1	Running Time, s		53.77			58.66		
1	Running Speed, mph		40.70		37.31			
1	Through Delay, s/veh		26.94		17.55			
1	Travel Time, s		80.71		76.21			
1	Travel Speed, mph		27.12			28.72		
1	Stop Rate, stops/veh		0.62			0.35		
1	Spatial Stop Rate, stops/mi		1.02		0.58			
1	Through vol/cap Ratio		0.19		0.25			
1	Percent of Base FFS		64.79			69.15		
1	Level of Service		С			В		
1	Auto Traveler Perception Score		2.29			2.23		
Multimoda	Results (Segment)							
1	Pedestrian Segment LOS Score / LOS	2.50		В	3.70	)	D	
1	Bicycle Segment LOS Score / LOS	3.37		C 3.60		)	D	
1	Transit Segment LOS Score / LOS	1.06		Α	0.76	3	Α	

Facility Output Data	Northbound	Southbound
Facility Travel Time, s	471.04	394.91
Facility Travel Speed, mph	14.48	17.27
Facility Base Free Flow Speed, mph	45.36	45.36
Facility Percent of Base FFS	31.92	38.07
Facility Level of Service	E	E
Facility Auto Traveler Perception Score	2.52	2.51
	*	

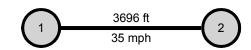
Multimodal Results (Facility)				
Pedestrian Facility LOS Score / LOS	3.25	С	3.53	D
Bicycle Facility LOS Score / LOS	3.46	С	3.53	D
Transit Facility LOS Score / LOS	1.81	A	1.69	Α

	HCS 2010 Ur	ban Street S	Segment Repo	rt	
General Information				Streets Information	
Agency	Pennoni			Number of Intersections	2
Analyst	MTD	Analysis Date	Nov 2, 2015	Number of Segments	1
Jurisdiction	NJDOT	Time Period	AM	Number of Iterations	15
File Name	72-Upper Ferry Rd-Lower Ferry	Analysis Year	2015	System Cycle Length, s	120
Intersections	Upper Ferry Rd & Lower Ferry R	Upper Ferry Rd	& Rt. 31	Analysis Period	1> 7:00
Project Description	Pre-Construction Traffic Study				



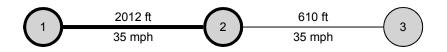
Segment	Speed	rmation d Limit	Throug	h Lanes	Seamer	t Length	Inters	section Wid	Length	of RM	Perce	nt Curb	Other	Delay
Cogmon	EB	WB	EB	WB	EB	WB	EB	Tr.	EB	WB	EB	WB	EB	WB
1	35	35	1	1	3696	3696	69	70	0	0	0	0	0.0	0.0
							1	Eastbound				Westbo	und	
Segment C	Output Dat	ta				EBL	-	EBT	EBF	2	WBL WB1		Г	WBR
Segment	Moveme	ent				5		2	12		1 6			16
1	Bay/Lar	ne Spillba	ck Time,	h				never				neve	r	
1	Shared	Lane Spi	llback Tin	ne, h		neve	r		neve	r	never			never
1	Base Fr	ee-Flow	Speed, m	ph		41.60						41.60	)	
1	Running	g Time, s				62.45						62.98	3	
1	Running	g Speed,	mph					40.35				40.01	1	
1	2.0							29.40				17.06	3	
1	Travel Time, s							91.86				80.04	4	
1	Travel Speed, mph					27.43					31.48			
1	Stop Rate, stops/veh							0.72				0.73	1	
1	Spatial Stop Rate, stops/mi							1.04				1.04		
1	Through vol/cap Ratio							0.39				0.39	1	
11	Percent of Base FFS							65.95				75.69	9	
1		Service						С				В		
1		aveler Pe		Score				2.29				2.30		
Multimoda	V.					,								
1		ian Segm			os		2.45		В		2.45			В
11		Segment					3.43		С		3.46	3		C
1	Transit	Segment	LOS Sco	re / LOS			1.10		Α		0.87	7		A
Facility C	4m.u4 D=4											\A/a = 41		
Facility Ou								Eastbound				Westbo		
Facility Trav								91.86				80.0 <sup>4</sup> 31.48		
Facility Bas		•	mnh					41.60				41.60		
Facility Per		-	, шрп					65.95				75.69		
Facility Lev								C C				75.68 B	9	
Facility Auto			n Score					2.29				2.30		
acility Auto	o mavelel	i erceptic	JII SCOILE					2.29				2.30		
Multimoda	I Results	(Facility)												
	edestrian Facility LOS Score / LOS					2.45			С		2.45			C
							3.43		С		3.46			C
	cycle Facility LOS Score / LOS ansit Facility LOS Score / LOS													

	HCS 2010 Ur	ban Street S	Segment Report		
General Information				Streets Information	
Agency	Pennoni			Number of Intersections	2
Analyst	MTD	Analysis Date	Nov 2, 2015	Number of Segments	1
Jurisdiction	NJDOT	Time Period	PM	Number of Iterations	15
File Name	72-Upper Ferry Rd-Lower Ferry	Analysis Year	2015	System Cycle Length, s	120
Intersections	Upper Ferry Rd & Lower Ferry R	Upper Ferry & R	t. 31	Analysis Period	1> 7:00
Project Description	Pre-Construction Traffic Study				



Basic Segr							1								
Segment	Speed	Limit		h Lanes	_	t Length	Inte	rsection \	Wid	Length	of RM	_	nt Curb		Delay
	EB	WB	EB	WB	EB	WB	E	B W	/B	EB	WB	EB	WB	EB	WB
1	35	35	1	1	3696	3696	69	9 7	0	0	0	0	0	0.0	0.0
								Eastbo					Westbo	und	
Segment O	utnut Dat	· 2				EBL		Eastbol	- 1	EBR		WBL	WB	-	
Segment	Moveme					5	-	2		12		1 6			16
1	<del></del>		ck Time,	h		neve			12		never	neve	r	never	
1			Ilback Tin			neve		1.010	•	neve		never	11010		never
1		<u>.</u>	Speed, m			11010		41.60	 )	11010		110101	41.60	0	110101
1		Time, s	- <b>-</b>	<b>P</b> · ·				63.63					64.3		
1	<u> </u>	Speed,	mph					39.60					39.18		
1		Through Delay, s/veh						34.06					26.99		
1	Travel T	ime, s	97.69							91.3	1				
1	Travel S	peed, m	ph					25.79	)				27.60	0	
1	Stop Ra	Rate, stops/veh				0.86						0.81			
1								1.22					1.15	,	
1	1 Through vol/cap Ratio						0.83					0.81			
1	Percent	of Base	FFS					62.01					66.3	5	
1	Level of	Service						С					С		
1	Auto Tra	veler Pe	rception (	Score				2.32					2.31		
Multimoda	T .		-								N N				
1			nent LOS		os	2.62			В		2.64			В	
1			LOS Sco			3.50			D		3.50			С	
1	Transit S	Segment	LOS Sco	re / LOS		1.32 A						1.24			A
Facility Ou	tnut Data							Eastbo	und				Westbo	und	
Facility Trav	-							97.69					91.3		
Facility Trav								25.79					27.6		
Facility Bas			l. mph					41.60					41.60		
Facility Per			7 : : :   - : :					62.01					66.3		
Facility Leve								С					С		
Facility Auto			on Score					2.32					2.31		
Multimoda						Ì					ı				
Pedestrian							2.62			С		2.64			С
Bicycle Fac						3.50		D		3.50			С		
Transit Faci	lity LOS S	core / LC	)S				1.32			Α		1.24			Α

	HCS 2010 Ur	ban Street Se	egment Report		
General Information				Streets Information	
Agency	Pennoni			Number of Intersections	3
Analyst	MTD	Analysis Date	Nov 2, 2015	Number of Segments	2
Jurisdiction	NJDOT	Time Period	AM	Number of Iterations	15
File Name	74-W State St-Calhoun St to Wa	Analysis Year	2015	System Cycle Length, s	60
Intersections	W State St & Calhoun St	W State St & Willo	ow St	Analysis Period	1> 7:00
Project Description	Pre-Construction Traffic Study				



EB WB

В

С

Percent Curb

EB WB

2.34

3.39

1.10

Other Delay

EB WB

В

С

		***		***		***		***		***		****		***
1	35	35	1	1	2012	2012	65	38	0	0	70	70	0.0	0.0
						v.								
								Eastbound			Westbound			
Segment O	utput Dat	ta				EBL		EBT	EBR		WBL	WBT		WBR
Segment	Moveme	ent				5		2	12		1	6		16
1	Bay/Lar	ne Spillba	ck Time,	h				never				neve	r	
1	Shared	Lane Spi	llback Tin	ne, h		nevei	r				never			never
1	Base Fr	ee-Flow	Speed, m	ph		41.30					41.30			
1	Running	Time, s						35.86			35.40			
1	Running	Speed,	mph					38.26				38.75	5	
1	Through	n Delay, s	/veh			13.10					17.79	9		
1	Travel T	īme, s						48.96			53.20			
1	Travel S	Speed, m	oh					28.02				25.79	9	
1	Stop Ra	ite, stops	/veh					0.46				0.70		
1	Spatial	Stop Rate	e, stops/n	ni				1.19				1.83		
1	Through	n vol/cap	Ratio					0.66				0.28		
1	Percent	of Base	FFS	·				67.84	·		·	62.43	3	·
1	Level of	Service				В				С				
1	Auto Tra	aveler Pe	rception	Score				2.32			2.42			

Segment Length Intersection Wid

ΕB

EB WB

1	Transit Segment LOS Score / LOS	0.42	Α	1.19	Α			
Facility Ou	itput Data	Eastbo	und	Westbound				
Facility Tra	vel Time, s	79.74		82.67				
Facility Tra	vel Speed, mph	22.42	2	21.6	2			
Facility Bas	Base Free Flow Speed, mph 41.06 41.06							
Facility Per	cent of Base FFS	54.61		52.67				
Facility Lev	el of Service	С		С				
Facility Aut	o Traveler Perception Score	2.50		2.50	)			
Multimoda	l Results (Facility)							
Pedestrian	Facility LOS Score / LOS	2.40	С	2.53	С			
Bicycle Fac	cility LOS Score / LOS	3.45	С	3.39 C				

0.87

2.40

3.46

Transit Facility LOS Score / LOS

**Basic Segment Information** 

**Multimodal Results (Segment)** 

1

1

Pedestrian Segment LOS Score / LOS

Bicycle Segment LOS Score / LOS

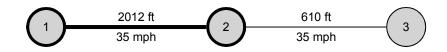
Speed Limit

EB WB

Through Lanes

Segment

	HCS 2010 Ur	ban Street S	egment Repo	rt	
General Information				Streets Information	
Agency	Pennoni			Number of Intersections	3
Analyst	MTD	Analysis Date	Nov 2, 2015	Number of Segments	2
Jurisdiction	NJDOT	Time Period	PM	Number of Iterations	15
File Name	74-W State St-Calhoun St to Wa	Analysis Year	2015	System Cycle Length, s	60
Intersections	W State St & Calhoun St	W State St & Willo	ow St	Analysis Period	1> 7:00
Project Description	Pre-Construction Traffic Study				



Basic Segm	ent Info	rmation												
Segment	ment Speed Limit Through Lanes Segr				Segmen	egment Length Intersection Wid			Length	of RM	Percent Curb		Other Delay	
	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
1	35	35	1	1	2012	2012	65	38	0	0	70	70	0.0	0.0
						Eastbound						Westbo	und	

			Eastbound			Westbound			
Segment C	Output Data	EBL	EBT	EBR	WBL	WBT	WBR		
Segment	Movement	5	2	12	1	6	16		
1	Bay/Lane Spillback Time, h	never	never			never			
1	Shared Lane Spillback Time, h	never			never		never		
1	Base Free-Flow Speed, mph		41.30	·		41.30			
1	Running Time, s		35.44			35.45			
1	Running Speed, mph		38.71			38.70			
1	Through Delay, s/veh		16.68		16.23				
1	Travel Time, s		52.12		51.67				
1	Travel Speed, mph		26.32			26.55			
1	Stop Rate, stops/veh		0.61			0.64			
1	Spatial Stop Rate, stops/mi		1.61			1.69			
1	Through vol/cap Ratio		0.42			0.18			
1	Percent of Base FFS		63.73			64.28			
1	Level of Service		С			С			
1	Auto Traveler Perception Score		2.38			2.40			
Multimoda	Results (Segment)				1				
1	Pedestrian Segment LOS Score / LOS	2.29		В	2.35	5	В		
1	Bicycle Segment LOS Score / LOS	3.41		С	3.41	3.41			
1	Transit Segment LOS Score / LOS	0.33		Α	1.14	ı.	Α		

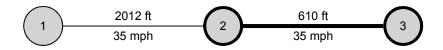
80.19 22.29 41.06	76.84 23.27 41.06
41.06	41.06
54.30	56.67
С	С
2.53	2.45
2.00	2.40
	С

2.29	С	2.53	С
3.41	С	3.40	С
0.76	А	1.07	Α
	3.41	3.41 C	3.41 C 3.40

HCS 2010 Urban Street Segment Report										
General Information Streets Information										
Agency	Number of Intersections	3								
Analyst	MTD	Analysis Date	Nov 2, 2015	Number of Segments	2					
Jurisdiction	NJDOT	Time Period	AM	Number of Iterations	15					
File Name	74-W State St-Calhoun St to Wa	Analysis Year	2015	System Cycle Length, s	60					
Intersections	W State St & Willow St	W State St & War	ren St	Analysis Period	1> 7:00					
Project Description	Pre-Construction Traffic Study									

Percent Curb

Other Delay



Segment Length Intersection Wid

	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB		
2	35	35	1	1	610	610	38	41	0	0	70	70	0.0	0.0		
						1										
							Eastbound					Westbound				
Segment C	Segment Output Data				EBL	EBL EBT EBR			2	WBL	WB1	-	WBR			
Segment	Movement					2	12		1	6						
2	Bay/Lar	ne Spillba	ck Time,	h				never				neve	r			
2	Shared	Lane Spi	llback Tin	ne, h					neve	r	never					
2	Base Fr	ee-Flow	Speed, m	ıph				40.28			40.27					
2	Running	g Time, s						14.64			14.53					
2	Running Speed, mph				28.41					28.62						
2	Through Delay, s/veh				16.14					14.94						
2	Travel Time, s				30.78					29.48						
2	Travel Speed, mph				13.51				14.11							
2	Stop Ra	ate, stops	/veh			0.64				0.50						
2	Spatial	Stop Rate	e, stops/n	ni		5.54					4.29					
2	Through	n vol/cap	Ratio			0.47				0.57						
2	Percent	of Base	FFS					33.55				35.03	3			
2	Level of	Service					Е				E					
2	2 Auto Traveler Perception Score				3.33					2.84						
Multimodal Results (Segment)																
2	Pedestrian Segment LOS Score / LOS				2.37 B			3.15	5		С					
2	Bicycle	Segment	LOS Sco	ore / LOS			3.42		С		3.39			С		
2	Transit	Segment	LOS Sco	re / LOS			2.37		В		0.82	2		Α		
Facility O	Facility Output Data								Weethound							

Facility Output Data	Eastbo	und	Westbound					
Facility Travel Time, s	79.74		82.67					
Facility Travel Speed, mph	22.42 21.62							
Facility Base Free Flow Speed, mph	41.06 41.06							
Facility Percent of Base FFS	54.61	7						
Facility Level of Service	C							
Facility Auto Traveler Perception Score	2.50	2.50 2.50						
Multimodal Results (Facility)								
Pedestrian Facility LOS Score / LOS	2.40	С	2.53	С				

3.45

0.87

Bicycle Facility LOS Score / LOS

Transit Facility LOS Score / LOS

**Basic Segment Information** 

Speed Limit

Through Lanes

Segment

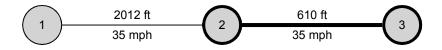
С

Α

С

3.39

HCS 2010 Urban Street Segment Report										
General Information Streets Information										
Agency		Number of Intersections	3							
Analyst	MTD	Analysis Date	Nov 2, 2015	Number of Segments	2					
Jurisdiction	NJDOT	Time Period	PM	Number of Iterations	15					
File Name	74-W State St-Calhoun St to Wa	Analysis Year	2015	System Cycle Length, s	60					
Intersections	W State St & Willow St	W State St & Warren St Analysis Period 1> 7								
Project Description	Pre-Construction Traffic Study									



Segment Length Intersection Wid

Length of RM

Percent Curb

Other Delay

ocginent	Opece	<i>i</i> =	Tilloug	Lancs	ocgilicii	it Echigui	IIIICISC	Clion vvia	Longin	OI I (IVI	1 01001	it Cuib	Otrici	DCIay
	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
2	35	35	1	1	610	610	38	41	0	0	70	70	0.0	0.0
					<u> </u>	,		<u> </u>			<u> </u>			<u> </u>
						Ea	stbound			Westbound				
Segment Output Data				EBL		EBT	EBR		WBL WBT			WBR		
Segment	egment Movement					2	12		1	6				
2			ck Time,					never	never	·	never	neve	r	
2			Ilback Tin						never	-	never			
2	Base Free-Flow Speed, mph						40.28			40.27				
2	Running Time, s					14.53			14.83					
2	Running Speed, mph			28.62					28.05					
2	Through Delay, s/veh			13.54					10.33					
2	Travel Time, s			28.07					25.16					
2	Travel Speed, mph			14.82					16.53	3				
2		te, stops				0.54					0.38			
2			e, stops/m	ni		4.68				3.29				
2		vol/cap				0.32				0.41				
2	Percent	of Base	FFS			36.78				41.04				
2	Level of					E				D				
2			rception S	Score		3.16					2.66			
Multimodal	1					V				· ·				
2			nent LOS				2.30		В		3.13	3		C
2	-		LOS Sco				3.39		С		3.38	3		C
2	Transit S	ansit Segment LOS Score / LOS					2.18		В		0.85	5		A
						1								
Facility Out	put Data						Ea	stbound				Westbo	und	

Facility Level of Service	С		С				
Facility Auto Traveler Perception Score	2.53	2.45	2.45				
Multimodal Results (Facility)							
Pedestrian Facility LOS Score / LOS	2.29	С	2.53	С			
Bicycle Facility LOS Score / LOS	3.41	С	3.40	С			
Transit Facility LOS Score / LOS	0.76	Α	1.07	Α			
Converight © 2016 University of Florida, All Rights Reserved HCS 2010™ Streets Version 6.70 Generated: 1/6/2016 6:28:01							

Facility Travel Time, s

Facility Travel Speed, mph

Facility Percent of Base FFS

Facility Base Free Flow Speed, mph

**Basic Segment Information** 

Speed Limit

Through Lanes

Segment

80.19

22.29

41.06

54.30

76.84

23.27

41.06