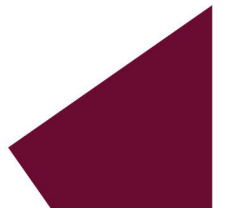




INTERSECTION COUNT DATA





Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 1
 Job Number: R006524.0426
 Date: 10/25/2016
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

All Vehicles

Start Time	N/A Eastbound					Route 0039 Westbound					Front St (SR3009) Northbound					Front St (SR 3009) Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:30 AM	0	0	0	0	0	168	0	4	0	172	0	45	75	0	120	17	295	0	0	312	604
7:45 AM	0	0	0	0	0	176	0	9	0	185	0	40	83	0	123	34	246	0	0	280	588
Total	0	0	0	0	0	344	0	13	0	357	0	85	158	0	243	51	541	0	0	592	1192
8:00 AM	0	0	0	0	0	151	0	11	0	162	0	73	91	0	164	16	232	0	0	248	574
8:15 AM	0	0	0	0	0	145	0	14	0	159	0	78	108	0	186	21	203	0	0	224	569
8:30 AM	0	0	0	0	0	149	0	8	0	157	0	56	74	0	130	16	177	0	0	193	480
8:45 AM	0	0	0	0	0	122	0	14	0	136	0	52	72	0	124	16	128	0	0	144	404
Total	0	0	0	0	0	567	0	47	0	614	0	259	345	0	604	69	740	0	0	809	2027
Grand Total	0	0	0	0	0	911	0	60	0	971	0	344	503	0	847	120	1281	0	0	1401	3219
Apprch %						93.8	0.0	6.2	0.0		0.0	40.6	59.4	0.0		8.6	91.4	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	28.3	0.0	1.9	0.0	30.2	0.0	10.7	15.6	0.0	26.3	3.7	39.8	0.0	0.0	43.5	

Start Time	N/A Eastbound					Route 0039 Westbound					Front St (SR3009) Northbound					Front St (SR 3009) Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	7:30 AM to 8:30 AM																				
Volume	0	0	0	0	0	640	0	38	0	678	0	236	357	0	593	88	976	0	0	1064	2335
Percent						94.4	0.0	5.6	0.0		0.0	39.8	60.2	0.0		8.3	91.7	0.0	0.0		
7:30 AM																					
Volume Peak	0	0	0	0	0	168	0	4	0	172	0	45	75	0	120	17	295	0	0	312	604
Factor																					
High Int.	7:30 AM					7:45 AM					8:15 AM					7:30 AM					
Volume	0	0	0	0	0	176	0	9	0	185	0	78	108	0	186	17	295	0	0	312	
PHF						0.91		0.68		0.92		0.76	0.83		0.80	0.65	0.83			0.85	0.97
Heavy Vehicles %	0%	0%	0%			2%	0%	16%			0%	3%	1%			7%	1%	0%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		74	0		0		0	0		



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 1
 Job Number: R006524.0426
 Date: 10/25/2016
 Page No: 2

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	N/A Eastbound					Route 0039 Westbound					Front St (SR3009) Northbound					Front St (SR 3009) Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
7:30 AM	0	0	0	0	0	2	0	0	0	2	0	0	1	0	1	2	0	0	0	2	5
7:45 AM	0	0	0	0	0	4	0	2	0	6	0	1	1	0	2	3	2	0	0	5	13
Total	0	0	0	0	0	6	0	2	0	8	0	1	2	0	3	5	2	0	0	7	18
8:00 AM	0	0	0	0	0	1	0	1	0	2	0	2	1	0	3	1	4	0	0	5	10
8:15 AM	0	0	0	0	0	4	0	3	0	7	0	4	0	0	4	0	3	0	0	3	14
8:30 AM	0	0	0	0	0	6	0	1	1	8	0	0	2	0	2	2	1	0	0	3	13
8:45 AM	0	0	0	0	0	4	0	3	0	7	0	2	2	0	4	2	0	0	0	2	13
Total	0	0	0	0	0	15	0	8	1	24	0	8	5	0	13	5	8	0	0	13	50
Grand Total	0	0	0	0	0	21	0	10	1	32	0	9	7	0	16	10	10	0	0	20	68
Apprch %						65.6	0.0	31.3	3.1		0.0	56.3	43.8	0.0		50.0	50.0	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	30.9	0.0	14.7	1.5	47.1	0.0	13.2	10.3	0.0	23.5	14.7	14.7	0.0	0.0	29.4	
Overall Peak Hour Volume	0	0	0	0	0	11	0	6	0	17	0	7	3	0	10	6	9	0	0	15	42



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
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Intersection #: 1
 Job Number: R006524.0426
 Date: 10/25/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

U-Turn & RTOR

Start Time	N/A Eastbound				Route 0039 Westbound				Front St (SR3009) Northbound				Front St (SR 3009) Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
7:30 AM	0		0	0	0		0	0	0		13	13	0		0	0	13
7:45 AM	0		0	0	0		0	0	0		15	15	0		0	0	15
Total	0		0	0	0		0	0	0		28	28	0		0	0	28
8:00 AM	0		0	0	0		0	0	0		25	25	0		0	0	25
8:15 AM	0		0	0	0		0	0	0		21	21	0		0	0	21
8:30 AM	0		0	0	0		0	0	0		13	13	0		0	0	13
8:45 AM	0		0	0	0		0	0	0		28	28	0		0	0	28
Total	0		0	0	0		0	0	0		87	87	0		0	0	87
Grand Total	0		0	0	0		0	0	0		115	115	0		0	0	115
Apprch %									0.0	0.0	100.0	0.0					
Total %	0.0		0.0	0.0	0.0		0.0	0.0	0.0		100.0	100.0	0.0		0.0	0.0	
Overall Peak Hour Volume	0		0	0	0		0	0	0		74	74	0		0	0	74



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 2
 Job Number: R006524.0426
 Date: 10/25/2016
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

All Vehicles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					6th St Northbound					6th St Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:30 AM	0	97	13	0	110	65	170	4	0	239	2	0	29	0	31	0	0	1	0	1	381
7:45 AM	0	115	12	0	127	82	189	5	0	276	3	0	41	0	44	4	0	2	0	6	453
Total	0	212	25	0	237	147	359	9	0	515	5	0	70	0	75	4	0	3	0	7	834
8:00 AM	2	112	12	0	126	66	157	2	0	225	4	0	21	0	25	2	0	2	0	4	380
8:15 AM	0	136	8	0	144	62	177	2	0	241	5	0	30	0	35	1	0	0	0	1	421
8:30 AM	1	120	7	0	128	53	151	1	0	205	4	1	34	0	39	2	1	0	0	3	375
8:45 AM	0	86	11	0	97	58	147	0	0	205	4	1	36	0	41	1	0	0	0	1	344
Total	3	454	38	0	495	239	632	5	0	876	17	2	121	0	140	6	1	2	0	9	1520
Grand Total	3	666	63	0	732	386	991	14	0	1391	22	2	191	0	215	10	1	5	0	16	2354
Apprch %	0.4	91.0	8.6	0.0		27.7	71.2	1.0	0.0		10.2	0.9	88.8	0.0		62.5	6.3	31.3	0.0		
Total %	0.1	28.3	2.7	0.0	31.1	16.4	42.1	0.6	0.0	59.1	0.9	0.1	8.1	0.0	9.1	0.4	0.0	0.2	0.0	0.7	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					6th St Northbound					6th St Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	7:30 AM to 8:30 AM																				
Volume	2	460	45	0	507	275	693	13	0	981	14	0	121	0	135	7	0	5	0	12	1635
Percent	0.4	90.7	8.9	0.0		28.0	70.6	1.3	0.0		10.4	0.0	89.6	0.0		58.3	0.0	41.7	0.0		
7:45 AM																					
Volume	0	115	12	0	127	82	189	5	0	276	3	0	41	0	44	4	0	2	0	6	453
Peak Factor																					
High Int.	8:15 AM					7:45 AM					7:45 AM					7:45 AM					
Volume	0	136	8	0	144	82	189	5	0	276	3	0	41	0	44	4	0	2	0	6	0.90
PHF	0.25	0.85	0.87		0.88	0.84	0.92	0.65		0.89	0.70		0.74		0.77	0.44		0.63		0.50	
Heavy Vehicles %	0%	5%	13%			3%	2%	15%			36%	0%	8%			0%	0%	0%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



AN EMPLOYEE-OWNED COMPANY

Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 2
 Job Number: R006524.0426
 Date: 10/25/2016
 Page No: 2

Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					6th St Northbound					6th St Southbound					Int. Total	
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total		
7:30 AM	0	1	1	0	2	3	4	0	0	7	0	0	3	0	3	0	0	0	0	0	0	12
7:45 AM	0	8	1	0	9	1	4	0	0	5	1	0	2	0	3	0	0	0	0	0	0	17
Total	0	9	2	0	11	4	8	0	0	12	1	0	5	0	6	0	0	0	0	0	0	29
8:00 AM	0	4	1	0	5	1	1	2	0	4	0	0	2	0	2	0	0	0	0	0	0	11
8:15 AM	0	8	3	0	11	3	7	0	0	10	4	0	3	0	7	0	0	0	0	0	0	28
8:30 AM	1	7	0	0	8	2	3	0	0	5	0	0	4	0	4	0	1	0	0	0	1	18
8:45 AM	0	4	0	0	4	0	12	0	0	12	0	1	2	0	3	0	0	0	0	0	0	19
Total	1	23	4	0	28	6	23	2	0	31	4	1	11	0	16	0	1	0	0	1	1	76
Grand Total	1	32	6	0	39	10	31	2	0	43	5	1	16	0	22	0	1	0	0	1	1	105
Apprch %	2.6	82.1	15.4	0.0		23.3	72.1	4.7	0.0		22.7	4.5	72.7	0.0		0.0	100.0	0.0	0.0			
Total %	1.0	30.5	5.7	0.0	37.1	9.5	29.5	1.9	0.0	41.0	4.8	1.0	15.2	0.0	21.0	0.0	1.0	0.0	0.0	1.0		
Overall Peak Hour Volume	0	21	6	0	27	8	16	2	0	26	5	0	10	0	15	0	0	0	0	0	0	68



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 3
 Job Number: R006524.0426
 Date: 11/2/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Industrial Rd Northbound					322 Ramp Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:30 AM	0	107	30	1	138	22	197	0	0	219	5	0	22	0	27	62	17	41	0	120	504
7:45 AM	0	128	32	0	160	35	208	0	0	243	11	0	15	0	26	83	28	46	0	157	586
Total	0	235	62	1	298	57	405	0	0	462	16	0	37	0	53	145	45	87	0	277	1090
8:00 AM	0	109	20	0	129	24	197	0	0	221	9	0	16	0	25	67	12	37	0	116	491
8:15 AM	0	131	22	0	153	20	173	0	0	193	9	0	16	0	25	62	12	25	0	99	470
8:30 AM	0	127	20	0	147	27	148	0	0	175	8	0	15	2	25	68	33	14	0	115	462
8:45 AM	0	104	17	0	121	25	135	0	0	160	8	0	21	0	29	67	25	20	0	112	422
Total	0	471	79	0	550	96	653	0	0	749	34	0	68	2	104	264	82	96	0	442	1845

Grand Total	0	706	141	1	848	153	1058	0	0	1211	50	0	105	2	157	409	127	183	0	719	2935
Apprch %	0.0	83.3	16.6	0.1		12.6	87.4	0.0	0.0		31.8	0.0	66.9	1.3		56.9	17.7	25.5	0.0		
Total %	0.0	24.1	4.8	0.0	28.9	5.2	36.0	0.0	0.0	41.3	1.7	0.0	3.6	0.1	5.3	13.9	4.3	6.2	0.0	24.5	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Industrial Rd Northbound					322 Ramp Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	7:30 AM to 8:30 AM																				
Volume	0	475	104	1	580	101	775	0	0	876	34	0	69	0	103	274	69	149	0	492	2051
Percent	0.0	81.9	17.9	0.2		11.5	88.5	0.0	0.0		33.0	0.0	67.0	0.0		55.7	14.0	30.3	0.0		
7:45 AM																					
Volume Peak	0	128	32	0	160	35	208	0	0	243	11	0	15	0	26	83	28	46	0	157	586
Factor																					
High Int.	7:45 AM					7:45 AM					8:45 AM					7:45 AM					
Volume	0	128	32	0	160	35	208	0	0	243	8	0	21	1	30	83	28	46	0	157	
PHF		0.91	0.81	0.25	0.91	0.72	0.93			0.90	0.77		0.78		0.95	0.83	0.62	0.81		0.78	0.88
Heavy Vehicles %	0%	5%	4%			9%	2%	0%			38%	0%	52%			1%	3%	5%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		67	0		



AN EMPLOYEE-OWNED COMPANY

Route 0039 Land Use and Traffic Study
AM PEAK HOUR

Herbert, Rowland & Grubic, Inc.
369 East Park Drive
Harrisburg, PA 17111
(717) 564-1121

Intersection #: 3
Job Number: R006524.0426
Date: 11/2/2016
Page No: 2

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Industrial Rd Northbound					322 Ramp Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
7:30 AM	0	6	2	0	8	2	6	0	0	8	4	0	12	0	16	3	2	4	0	9	41
7:45 AM	0	6	2	0	8	2	5	0	0	7	6	0	7	0	13	1	0	0	0	1	29
Total	0	12	4	0	16	4	11	0	0	15	10	0	19	0	29	4	2	4	0	10	70
8:00 AM	0	6	0	0	6	3	5	0	0	8	2	0	9	0	11	0	0	3	0	3	28
8:15 AM	0	5	0	0	5	2	3	0	0	5	1	0	8	0	9	0	0	1	0	1	20
8:30 AM	0	4	0	0	4	5	1	0	0	6	1	0	5	1	7	1	2	0	0	3	20
8:45 AM	0	4	2	0	6	3	3	0	0	6	1	0	9	1	11	3	0	0	0	3	26
Total	0	19	2	0	21	13	12	0	0	25	5	0	31	2	38	4	2	4	0	10	94
Grand Total	0	31	6	0	37	17	23	0	0	40	15	0	50	2	67	8	4	8	0	20	164
Apprch %	0.0	83.8	16.2	0.0		42.5	57.5	0.0	0.0		22.4	0.0	74.6	3.0		40.0	20.0	40.0	0.0		
Total %	0.0	18.9	3.7	0.0	22.6	10.4	14.0	0.0	0.0	24.4	9.1	0.0	30.5	1.2	40.9	4.9	2.4	4.9	0.0	12.2	
Overall Peak Hour Volume	0	23	4	0	27	9	19	0	0	28	13	0	36	0	49	4	2	8	0	14	118



Herbert, Rowland & Grubic, Inc.
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Intersection #: 3
 Job Number: R006524.0426
 Date: 11/2/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

U-Turn & RTOR

Start Time	Route 0039 Eastbound				Route 0039 Westbound				Industrial Rd Northbound				322 Ramp Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
7:30 AM	0		0	0	0		0	0	0		0	0	0		13	13	13
7:45 AM	0		0	0	0		0	0	0		0	0	0		22	22	22
Total	0		0	0	0		0	0	0		0	0	0		35	35	35
8:00 AM	0		0	0	0		0	0	0		0	0	0		16	16	16
8:15 AM	0		0	0	0		0	0	0		0	0	0		16	16	16
8:30 AM	0		0	0	0		0	0	0		0	0	0		11	11	11
8:45 AM	0		0	0	0		0	0	0		0	0	0		14	14	14
Total	0		0	0	0		0	0	0		0	0	0		57	57	57
Grand Total	0		0	0	0		0	0	0		0	0	0		92	92	92
Aprrch %													0.0	0.0	100.0	0.0	
Total %	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		100.0	100.0	
Overall Peak Hour Volume	0		0	0	0		0	0	0		0	0	0		67	67	67



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 4
 Job Number: R006524.0426
 Date: 11/1/2016
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

All Vehicles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					322 Ramp Northbound					322 Ramp / Mountain View Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:30 AM	8	141	0	0	149	0	239	12	0	251	9	0	59	0	68	1	0	8	0	9	477
7:45 AM	9	195	0	0	204	0	300	25	0	325	23	0	98	0	121	0	0	0	0	0	650
Total	17	336	0	0	353	0	539	37	0	576	32	0	157	0	189	1	0	8	0	9	1127
8:00 AM	13	184	0	0	197	0	224	29	1	254	11	1	79	2	93	1	0	0	0	1	545
8:15 AM	5	175	0	0	180	0	217	14	0	231	17	0	65	0	82	1	0	2	0	3	496
8:30 AM	8	168	0	0	176	0	210	22	0	232	28	3	69	1	101	2	0	5	0	7	516
8:45 AM	14	135	0	0	149	0	204	15	0	219	22	0	61	0	83	1	0	1	0	2	453
Total	40	662	0	0	702	0	855	80	1	936	78	4	274	3	359	5	0	8	0	13	2010
Grand Total	57	998	0	0	1055	0	1394	117	1	1512	110	4	431	3	548	6	0	16	0	22	3137
Apprch %	5.4	94.6	0.0	0.0		0.0	92.2	7.7	0.1		20.1	0.7	78.6	0.5		27.3	0.0	72.7	0.0		
Total %	1.8	31.8	0.0	0.0	33.6	0.0	44.4	3.7	0.0	48.2	3.5	0.1	13.7	0.1	17.5	0.2	0.0	0.5	0.0	0.7	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					322 Ramp Northbound					322 Ramp / Mountain View Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	7:45 AM					to					8:45 AM										
Volume	35	722	0	0	757	0	951	90	1	1042	79	4	311	3	397	4	0	7	1	12	2208
Percent	4.6	95.4	0.0	0.0		0.0	91.3	8.6	0.1		19.9	1.0	78.3	0.8		33.3	0.0	58.3	8.3		
7:45 AM																					
Volume	9	195	0	0	204	0	300	25	0	325	23	0	98	0	121	0	0	0	0	0	650
Peak Factor																					
High Int.	7:45 AM					7:45 AM					7:45 AM					7:30 AM					
Volume	9	195	0	0	204	0	300	25	0	325	23	0	98	0	121	1	0	8	0	9	
PHF	0.67	0.93			0.93	0.79	0.78	0.25	0.80		0.71	0.33	0.79	0.38	0.82	0.50	0.00	0.35	0.25	0.43	0.85
Heavy Vehicles %	20%	2%	0%			0%	3%	2%			25%	25%	4%			0%	0%	0%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



AN EMPLOYEE-OWNED COMPANY

Route 0039 Land Use and Traffic Study
AM PEAK HOUR

Herbert, Rowland & Grubic, Inc.
369 East Park Drive
Harrisburg, PA 17111
(717) 564-1121

Intersection #: 4
Job Number: R006524.0426
Date: 11/1/2016
Page No: 2

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					322 Ramp Northbound					322 Ramp / Mountain View Southbound					Int. Total	
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total		
7:30 AM	1	0	0	0	1	0	4	1	0	5	1	0	3	0	4	0	0	0	0	0	0	10
7:45 AM	2	4	0	0	6	0	6	0	0	6	6	0	1	0	7	0	0	0	0	0	0	19
Total	3	4	0	0	7	0	10	1	0	11	7	0	4	0	11	0	0	0	0	0	0	29
8:00 AM	4	5	0	0	9	0	1	1	0	2	3	0	0	0	3	0	0	0	1	1	1	15
8:15 AM	1	6	0	0	7	0	8	0	0	8	6	0	4	0	10	0	0	0	0	0	0	25
8:30 AM	0	3	0	0	3	0	11	1	0	12	5	1	6	0	12	0	0	0	0	0	0	27
8:45 AM	1	2	0	0	3	0	4	2	0	6	5	0	1	0	6	0	0	0	0	0	0	15
Total	6	16	0	0	22	0	24	4	0	28	19	1	11	0	31	0	0	0	1	1	1	82
Grand Total	9	20	0	0	29	0	34	5	0	39	26	1	15	0	42	0	0	0	1	1	1	111
Apprch %	31.0	69.0	0.0	0.0		0.0	87.2	12.8	0.0		61.9	2.4	35.7	0.0		0.0	0.0	0.0	100.0			
Total %	8.1	18.0	0.0	0.0	26.1	0.0	30.6	4.5	0.0	35.1	23.4	0.9	13.5	0.0	37.8	0.0	0.0	0.0	0.9	0.9		
Overall Peak Hour Volume	7	18	0	0	25	0	26	2	0	28	20	1	11	0	32	0	0	0	1	1	1	86



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 5
 Job Number: R006524.0426
 Date: 10/12/2016
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

All Vehicles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Fargreen Rd Northbound					Fargreen Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:30 AM	6	209	6	0	221	1	225	4	0	230	19	0	1	0	20	6	1	16	0	23	494
7:45 AM	3	260	7	0	270	1	223	1	0	225	12	0	5	0	17	5	1	8	0	14	526
Total	9	469	13	0	491	2	448	5	0	455	31	0	6	0	37	11	2	24	0	37	1020
8:00 AM	6	237	6	0	249	1	230	4	0	235	15	0	2	0	17	3	1	5	0	9	510
8:15 AM	6	233	3	0	242	1	232	3	1	237	13	0	0	0	13	7	2	7	0	16	508
8:30 AM	4	215	3	0	222	1	178	2	0	181	11	3	3	0	17	2	0	7	0	9	429
8:45 AM	3	166	0	0	169	1	200	0	0	201	8	0	6	0	14	3	0	11	0	14	398
Total	19	851	12	0	882	4	840	9	1	854	47	3	11	0	61	15	3	30	0	48	1845

Grand Total	28	1320	25	0	1373	6	1288	14	1	1309	78	3	17	0	98	26	5	54	0	85	2865
Apprch %	2.0	96.1	1.8	0.0		0.5	98.4	1.1	0.1		79.6	3.1	17.3	0.0		30.6	5.9	63.5	0.0		
Total %	1.0	46.1	0.9	0.0	47.9	0.2	45.0	0.5	0.0	45.7	2.7	0.1	0.6	0.0	3.4	0.9	0.2	1.9	0.0	3.0	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Fargreen Rd Northbound					Fargreen Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	7:30 AM to 8:30 AM																				
Volume	21	939	22	0	982	4	910	12	1	927	59	0	8	0	67	21	5	36	1	63	2039
Percent	2.1	95.6	2.2	0.0		0.4	98.2	1.3	0.1		88.1	0.0	11.9	0.0		33.3	7.9	57.1	1.6		
7:45 AM																					
Volume Peak	3	260	7	0	270	1	223	1	0	225	12	0	5	0	17	5	1	8	0	14	526
Factor																					
High Int.	7:45 AM					8:15 AM					7:30 AM					7:30 AM					
Volume	3	260	7	0	270	1	232	3	1	237	19	0	1	0	20	6	1	16	0	23	
PHF	0.88	0.90	0.79	0.91		1.00	0.98	0.75	0.25	0.98	0.78		0.40	0.84		0.75	0.63	0.56	0.25	0.68	0.97
Heavy Vehicles %	14%	2%	32%			0%	1%	17%			3%	0%	50%			5%	0%	6%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		1	0		0		0	0		0		1	0		0		16	1		



AN EMPLOYEE-OWNED COMPANY

Route 0039 Land Use and Traffic Study
AM PEAK HOUR

Herbert, Rowland & Grubic, Inc.
369 East Park Drive
Harrisburg, PA 17111
(717) 564-1121

Intersection #: 5
Job Number: R006524.0426
Date: 10/12/2016
Page No: 2

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Fargreen Rd Northbound					Fargreen Rd Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
7:30 AM	1	2	2	0	5	0	0	2	0	2	0	0	0	0	0	0	0	1	0	1	8
7:45 AM	0	5	2	0	7	0	1	0	0	1	0	0	3	0	3	1	0	0	0	1	12
Total	1	7	4	0	12	0	1	2	0	3	0	0	3	0	3	1	0	1	0	2	20
8:00 AM	0	6	3	0	9	0	2	0	0	2	2	0	1	0	3	0	0	0	1	1	15
8:15 AM	2	6	0	0	8	0	9	0	0	9	0	0	0	0	0	0	0	1	0	1	18
8:30 AM	0	3	1	0	4	1	1	0	0	2	2	0	0	0	2	0	0	0	0	0	8
8:45 AM	0	6	0	0	6	0	3	0	0	3	1	0	2	0	3	0	0	0	0	0	12
Total	2	21	4	0	27	1	15	0	0	16	5	0	3	0	8	0	0	1	1	2	53
Grand Total	3	28	8	0	39	1	16	2	0	19	5	0	6	0	11	1	0	2	1	4	73
Apprch %	7.7	71.8	20.5	0.0		5.3	84.2	10.5	0.0		45.5	0.0	54.5	0.0		25.0	0.0	50.0	25.0		
Total %	4.1	38.4	11.0	0.0	53.4	1.4	21.9	2.7	0.0	26.0	6.8	0.0	8.2	0.0	15.1	1.4	0.0	2.7	1.4	5.5	
Overall Peak Hour Volume	3	19	7	0	29	0	12	2	0	14	2	0	4	0	6	1	0	2	1	4	53



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 5
 Job Number: R006524.0426
 Date: 10/12/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

U-Turn & RTOR

Start Time	Route 0039 Eastbound				Route 0039 Westbound				Fargreen Rd Northbound				Fargreen Rd Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
7:30 AM	0		0	0	0		0	0	0		0	0	0		5	5	5
7:45 AM	0		1	1	0		0	0	0		1	1	0		4	4	6
Total	0		1	1	0		0	0	0		1	1	0		9	9	11
8:00 AM	0		0	0	0		0	0	0		0	0	0		5	5	5
8:15 AM	0		0	0	0		0	0	0		0	0	0		2	2	2
8:30 AM	0		0	0	0		0	0	0		3	3	0		6	6	9
8:45 AM	0		0	0	0		0	0	0		4	4	0		9	9	13
Total	0		0	0	0		0	0	0		7	7	0		22	22	29
Grand Total	0		1	1	0		0	0	0		8	8	0		31	31	40
Aprrch %	0.0	0.0	100.0	0.0					0.0	0.0	100.0	0.0			0.0	0.0	
Total %	0.0		2.5	2.5	0.0		0.0	0.0	0.0		20.0	20.0	0.0		77.5	77.5	
Overall Peak Hour Volume	0		1	1	0		0	0	0		1	1	0		16	16	18



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 6
 Job Number: R006524.0426
 Date: 10/12/2016
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

All Vehicles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					N/A Northbound					Deer Path Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:30 AM	51	166	0	0	217	0	198	16	0	214	0	0	0	0	0	5	0	38	0	43	474
7:45 AM	73	188	0	0	261	0	175	20	0	195	0	0	0	0	0	5	0	51	0	56	512
Total	124	354	0	0	478	0	373	36	0	409	0	0	0	0	0	10	0	89	0	99	986
8:00 AM	62	174	0	0	236	0	202	16	0	218	0	0	0	0	0	1	0	29	0	30	484
8:15 AM	51	190	0	0	241	0	199	16	0	215	0	0	0	0	0	5	0	27	0	32	488
8:30 AM	42	155	0	0	197	0	149	12	0	161	0	0	0	0	0	5	0	28	0	33	391
8:45 AM	36	149	0	0	185	0	170	11	0	181	0	0	0	0	0	6	0	28	0	34	400
Total	191	668	0	0	859	0	720	55	0	775	0	0	0	0	0	17	0	112	0	129	1763

Grand Total	315	1022	0	0	1337	0	1093	91	0	1184	0	0	0	0	0	27	0	201	0	228	2749
Apprch %	23.6	76.4	0.0	0.0		0.0	92.3	7.7	0.0		0.0	0.0	0.0	0.0	0.0	11.8	0.0	88.2	0.0		
Total %	11.5	37.2	0.0	0.0	48.6	0.0	39.8	3.3	0.0	43.1	0.0	0.0	0.0	0.0	0.0	1.0	0.0	7.3	0.0	8.3	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					N/A Northbound					Deer Path Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	7:30 AM to 8:30 AM																				
Volume	237	718	0	0	955	0	774	68	0	842	0	0	0	0	0	16	0	145	0	161	1958
Percent	24.8	75.2	0.0	0.0		0.0	91.9	8.1	0.0							9.9	0.0	90.1	0.0		
7:45 AM																					
Volume Peak	73	188	0	0	261	0	175	20	0	195	0	0	0	0	0	5	0	51	0	56	512
Factor																					
High Int.	7:45 AM					8:00 AM					7:30 AM					7:45 AM					
Volume	73	188	0	0	261	0	202	16	0	218	0	0	0	0	0	5	0	51	0	56	
PHF	0.81	0.94			0.91		0.96	0.85		0.97						0.80		0.71		0.72	0.96
Heavy Vehicles %	0%	3%	0%			0%	2%	0%			0%	0%	0%			0%	0%	0%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		3	0		0		0	0		0		97	0		



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 6
 Job Number: R006524.0426
 Date: 10/12/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

U-Turn & RTOR

Start Time	Route 0039 Eastbound				Route 0039 Westbound				N/A Northbound				Deer Path Rd Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
7:30 AM	0		0	0	0		2	2	0		0	0	0		24	24	26
7:45 AM	0		0	0	0		0	0	0		0	0	0		35	35	35
Total	0		0	0	0		2	2	0		0	0	0		59	59	61
8:00 AM	0		0	0	0		0	0	0		0	0	0		17	17	17
8:15 AM	0		0	0	0		1	1	0		0	0	0		21	21	22
8:30 AM	0		0	0	0		0	0	0		0	0	0		25	25	25
8:45 AM	0		0	0	0		0	0	0		0	0	0		16	16	16
Total	0		0	0	0		1	1	0		0	0	0		79	79	80
Grand Total	0		0	0	0		0	0	0		0	0	0		138	138	138
Aprrch %													0.0	0.0	100.0	0.0	
Total %	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		100.0	100.0	
Overall Peak Hour Volume	0		0	0	0		3	3	0		0	0	0		97	97	100



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 7
 Job Number: R006524.0426
 Date: 10/11/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Crooked Hill Rd Northbound					Crooked Hill Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:30 AM	15	165	2	0	182	12	169	13	0	194	14	4	23	0	41	26	3	11	0	40	457
7:45 AM	18	186	5	0	209	19	210	11	0	240	10	5	16	0	31	29	6	8	0	43	523
Total	33	351	7	0	391	31	379	24	0	434	24	9	39	0	72	55	9	19	0	83	980
8:00 AM	25	167	8	0	200	7	168	24	0	199	11	10	16	0	37	29	6	10	0	45	481
8:15 AM	19	185	5	0	209	13	163	19	0	195	24	12	17	0	53	21	9	14	0	44	501
8:30 AM	28	138	6	0	172	9	162	39	0	210	13	24	16	0	53	45	9	24	0	78	513
8:45 AM	11	187	6	0	204	11	138	20	0	169	18	10	20	0	48	48	2	23	0	73	494
Total	83	677	25	0	785	40	631	102	0	773	66	56	69	0	191	143	26	71	0	240	1989

Grand Total	116	1028	32	0	1176	71	1010	126	0	1207	90	65	108	0	263	198	35	90	0	323	2969
Apprch %	9.9	87.4	2.7	0.0		5.9	83.7	10.4	0.0		34.2	24.7	41.1	0.0		61.3	10.8	27.9	0.0		
Total %	3.9	34.6	1.1	0.0	39.6	2.4	34.0	4.2	0.0	40.7	3.0	2.2	3.6	0.0	8.9	6.7	1.2	3.0	0.0	10.9	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Crooked Hill Rd Northbound					Crooked Hill Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	7:45 AM					to					8:45 AM										
Volume	90	676	24	0	790	48	703	93	0	844	58	51	65	0	174	124	30	56	0	210	2018
Percent	11.4	85.6	3.0	0.0		5.7	83.3	11.0	0.0		33.3	29.3	37.4	0.0		59.0	14.3	26.7	0.0		
7:45 AM																					
Volume Peak	18	186	5	0	209	19	210	11	0	240	10	5	16	0	31	29	6	8	0	43	523
Factor																					
High Int.	7:45 AM					7:45 AM					8:15 AM					8:30 AM					
Volume	18	186	5	0	209	19	210	11	0	240	24	12	17	0	53	45	9	24	0	78	
PHF	0.80	0.91	0.75		0.94	0.63	0.84	0.60		0.88	0.60	0.53	0.96		0.82	0.69	0.83	0.58		0.67	0.96
Heavy Vehicles %	1%	4%	4%			13%	2%	6%			0%	8%	5%			3%	0%	7%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		1	0		0		4	0		0		21	0		0		20	0		



AN EMPLOYEE-OWNED COMPANY

Route 0039 Land Use and Traffic Study
AM PEAK HOUR

Herbert, Rowland & Grubic, Inc.
369 East Park Drive
Harrisburg, PA 17111
(717) 564-1121

Intersection #: 7
Job Number: R006524.0426
Date: 10/11/2016
Page No: 2

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Crooked Hill Rd Northbound					Crooked Hill Rd Southbound					Int. Total	
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total		
7:30 AM	0	3	0	0	3	0	2	0	0	2	0	2	4	0	6	0	0	0	0	0	0	11
7:45 AM	0	5	0	0	5	2	4	0	0	6	0	0	0	0	0	0	0	0	0	0	0	11
Total	0	8	0	0	8	2	6	0	0	8	0	2	4	0	6	0	0	0	0	0	0	22
8:00 AM	0	6	1	0	7	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	9
8:15 AM	1	8	0	0	9	3	5	4	0	12	0	0	1	0	1	0	0	0	0	0	0	22
8:30 AM	0	5	0	0	5	1	4	2	0	7	0	3	2	0	5	4	0	4	0	8	8	25
8:45 AM	0	5	1	0	6	0	2	1	0	3	0	0	1	1	2	1	0	3	0	4	4	15
Total	1	24	2	0	27	4	12	7	0	23	0	4	4	1	9	5	0	7	0	12	8	71
Grand Total	1	32	2	0	35	6	18	7	0	31	0	6	8	1	15	5	0	7	0	12	8	93
Apprch %	2.9	91.4	5.7	0.0		19.4	58.1	22.6	0.0		0.0	40.0	53.3	6.7		41.7	0.0	58.3	0.0			
Total %	1.1	34.4	2.2	0.0	37.6	6.5	19.4	7.5	0.0	33.3	0.0	6.5	8.6	1.1	16.1	5.4	0.0	7.5	0.0	12.9	8	
Overall Peak Hour Volume	1	24	1	0	26	6	14	6	0	26	0	4	3	0	7	4	0	4	0	8	8	67



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 7
 Job Number: R006524.0426
 Date: 10/11/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

U-Turn & RTOR

Start Time	Route 0039 Eastbound				Route 0039 Westbound				Crooked Hill Rd Northbound				Crooked Hill Rd Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
7:30 AM	0		0	0	0		0	0	0		8	8	0		4	4	12
7:45 AM	0		0	0	0		2	2	0		9	9	0		2	2	13
Total	0		0	0	0		2	2	0		17	17	0		6	6	25
8:00 AM	0		0	0	0		1	1	0		3	3	0		4	4	8
8:15 AM	0		0	0	0		1	1	0		4	4	0		5	5	10
8:30 AM	0		1	1	0		0	0	0		5	5	0		9	9	15
8:45 AM	0		0	0	0		1	1	0		5	5	0		9	9	15
Total	0		1	1	0		3	3	0		17	17	0		27	27	48
Grand Total	0		1	1	0		0	0	0		34	34	0		33	33	68
Apprch %	0.0	0.0	100.0	0.0					0.0	0.0	100.0	0.0	0.0	0.0	100.0	0.0	
Total %	0.0		1.5	1.5	0.0		0.0	0.0	0.0		50.0	50.0	0.0		48.5	48.5	
Overall Peak Hour Volume	0		1	1	0		4	4	0		21	21	0		20	20	46



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 8
 Job Number: R006524.0426
 Date: 10/19/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

All Vehicles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Private Driveway Northbound					Blue Mountain Commons Dwy. Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:30 AM	22	208	8	0	238	9	205	5	0	219	13	0	6	0	19	18	0	26	2	46	522
7:45 AM	22	213	9	0	244	13	220	3	0	236	9	1	3	0	13	19	0	26	1	46	539
Total	44	421	17	0	482	22	425	8	0	455	22	1	9	0	32	37	0	52	3	92	1061
8:00 AM	33	157	7	0	197	12	233	3	0	248	10	0	4	0	14	14	2	21	0	37	496
8:15 AM	30	171	10	0	211	10	211	2	0	223	5	0	8	0	13	25	0	20	0	45	492
8:30 AM	31	182	6	0	219	8	213	3	0	224	11	3	6	0	20	20	0	23	2	45	508
8:45 AM	30	207	7	0	244	8	189	2	0	199	4	1	9	0	14	36	1	19	0	56	513
Total	124	717	30	0	871	38	846	10	0	894	30	4	27	0	61	95	3	83	2	183	2009

Grand Total	168	1138	47	0	1353	60	1271	18	0	1349	52	5	36	0	93	132	3	135	5	275	3070
Apprch %	12.4	84.1	3.5	0.0		4.4	94.2	1.3	0.0		55.9	5.4	38.7	0.0		48.0	1.1	49.1	1.8		
Total %	5.5	37.1	1.5	0.0	44.1	2.0	41.4	0.6	0.0	43.9	1.7	0.2	1.2	0.0	3.0	4.3	0.1	4.4	0.2	9.0	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Private Driveway Northbound					Blue Mountain Commons Dwy. Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	7:30 AM to 8:30 AM																				
Volume	107	749	34	0	890	44	869	13	0	926	37	1	21	1	60	76	2	93	3	174	2050
Percent	12.0	84.2	3.8	0.0		4.8	93.8	1.4	0.0		61.7	1.7	35.0	1.7		43.7	1.1	53.4	1.7		
7:45 AM																					
Volume Peak	22	213	9	0	244	13	220	3	0	236	9	1	3	0	13	19	0	26	1	46	539
Factor																					
High Int.	7:45 AM					8:00 AM					8:30 AM					8:45 AM					
Volume	22	213	9	0	244	12	233	3	0	248	11	3	6	0	20	36	1	19	0	56	
PHF	0.81	0.88	0.85	0.91		0.85	0.93	0.65	0.93		0.71	0.25	0.66	0.25	0.79	0.76	0.25	0.89	0.38	0.95	0.95
Heavy Vehicles %	0%	3%	9%			0%	3%	15%			0%	0%	5%			7%	0%	1%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		3	0		0		18	1		0		40	0		



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 8
 Job Number: R006524.0426
 Date: 10/19/2016
 Page No: 2

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Private Driveway Northbound					Blue Mountain Commons Dwy. Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
7:30 AM	0	3	0	0	3	0	3	0	0	3	0	0	0	0	0	1	0	1	0	2	8
7:45 AM	0	6	2	0	8	0	5	0	0	5	0	0	0	0	0	2	0	0	0	2	15
Total	0	9	2	0	11	0	8	0	0	8	0	0	0	0	0	3	0	1	0	4	23
8:00 AM	0	6	0	0	6	0	5	1	0	6	0	0	0	0	0	1	0	0	0	1	13
8:15 AM	0	6	1	0	7	0	10	1	0	11	0	0	1	1	2	1	0	0	0	1	21
8:30 AM	1	7	2	0	10	0	8	0	0	8	1	0	1	0	2	0	0	0	0	0	20
8:45 AM	0	6	0	0	6	0	8	0	0	8	0	0	0	0	0	0	0	1	0	1	15
Total	1	25	3	0	29	0	31	2	0	33	1	0	2	1	4	2	0	1	0	3	69
Grand Total	1	34	5	0	40	0	39	2	0	41	1	0	2	1	4	5	0	2	0	7	92
Apprch %	2.5	85.0	12.5	0.0		0.0	95.1	4.9	0.0		25.0	0.0	50.0	25.0		71.4	0.0	28.6	0.0		
Total %	1.1	37.0	5.4	0.0	43.5	0.0	42.4	2.2	0.0	44.6	1.1	0.0	2.2	1.1	4.3	5.4	0.0	2.2	0.0	7.6	
Overall Peak Hour Volume	0	21	3	0	24	0	23	2	0	25	0	0	1	1	2	5	0	1	0	6	57



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 8
 Job Number: R006524.0426
 Date: 10/19/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

U-Turn & RTOR

Start Time	Route 0039 Eastbound				Route 0039 Westbound				Private Driveway Northbound				Blue Mountain Commons Dwy. Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
7:30 AM	0		0	0	0		1	1	0		5	5	0		10	10	16
7:45 AM	0		0	0	0		2	2	0		2	2	0		14	14	18
Total	0		0	0	0		3	3	0		7	7	0		24	24	34
8:00 AM	0		0	0	0		0	0	0		4	4	0		9	9	13
8:15 AM	0		0	0	0		0	0	0		7	7	0		7	7	14
8:30 AM	0		0	0	0		0	0	0		3	3	0		9	9	12
8:45 AM	0		0	0	0		1	1	0		7	7	0		7	7	15
Total	0		0	0	0		1	1	0		21	21	0		32	32	54
Grand Total	0		0	0	0		0	0	0		28	28	0		56	56	84
Aprrch %									0.0	0.0	100.0	0.0	0.0	0.0	100.0	0.0	
Total %	0.0		0.0	0.0	0.0		0.0	0.0	0.0		33.3	33.3	0.0		66.7	66.7	
Overall Peak Hour Volume	0		0	0	0		3	3	0		18	18	0		40	40	61



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 9
 Job Number: R006524.0426
 Date: 9/29/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

All Vehicles																					
Start Time	Route 0039 Eastbound					Route 0039 Westbound					Progress Ave (SR 3015) Northbound					Progress Ave Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:30 AM	3	95	63	7	168	42	169	0	0	211	53	10	43	0	106	8	45	27	0	80	565
7:45 AM	7	127	62	0	196	39	213	2	0	254	50	7	45	0	102	8	35	19	0	62	614
Total	10	222	125	7	364	81	382	2	0	465	103	17	88	0	208	16	80	46	0	142	1179
8:00 AM	6	120	71	0	197	43	185	4	0	232	45	12	50	0	107	3	27	18	0	48	584
8:15 AM	6	123	65	0	194	41	127	3	0	171	47	8	47	0	102	13	36	13	0	62	529
8:30 AM	12	115	63	0	190	38	178	3	0	219	70	13	51	0	134	15	32	13	1	61	604
8:45 AM	10	113	73	0	196	34	153	3	0	190	56	15	55	0	126	11	18	13	0	42	554
Total	34	471	272	0	777	156	643	13	0	812	218	48	203	0	469	42	113	57	1	213	2271
Grand Total	44	693	397	7	1141	237	1025	15	0	1277	321	65	291	0	677	58	193	103	1	355	3450
Apprch %	3.9	60.7	34.8	0.6		18.6	80.3	1.2	0.0		47.4	9.6	43.0	0.0		16.3	54.4	29.0	0.3		
Total %	1.3	20.1	11.5	0.2	33.1	6.9	29.7	0.4	0.0	37.0	9.3	1.9	8.4	0.0	19.6	1.7	5.6	3.0	0.0	10.3	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Progress Ave (SR 3015) Northbound					Progress Ave Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	7:45 AM to 8:45 AM																				
Volume	31	485	261	0	777	161	703	12	0	876	212	40	193	0	445	39	130	63	1	233	2331
Percent	4.0	62.4	33.6	0.0		18.4	80.3	1.4	0.0		47.6	9.0	43.4	0.0		16.7	55.8	27.0	0.4		
7:45 AM																					
Volume Peak	7	127	62	0	196	39	213	2	0	254	50	7	45	0	102	8	35	19	0	62	614
Factor																					
High Int.	8:00 AM					7:45 AM					8:30 AM					7:30 AM					
Volume	6	120	71	0	197	39	213	2	0	254	70	13	51	0	134	8	45	27	0	80	
PHF	0.65	0.95	0.92	0.99		0.94	0.83	0.75	0.86		0.76	0.77	0.95	0.83		0.65	0.90	0.83	0.25	0.94	0.95
Heavy Vehicles %	0%	2%	3%			2%	2%	17%			6%	3%	5%			5%	2%	2%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



AN EMPLOYEE-OWNED COMPANY

Route 0039 Land Use and Traffic Study
AM PEAK HOUR

Herbert, Rowland & Grubic, Inc.
369 East Park Drive
Harrisburg, PA 17111
(717) 564-1121

Intersection #: 9
Job Number: R006524.0426
Date: 9/29/2016
Page No: 2

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Progress Ave (SR 3015) Northbound					Progress Ave Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
7:30 AM	0	3	1	0	4	1	3	0	0	4	2	0	1	0	3	0	1	0	0	1	12
7:45 AM	0	2	0	0	2	1	0	0	0	1	1	0	3	0	4	0	1	0	0	1	8
Total	0	5	1	0	6	2	3	0	0	5	3	0	4	0	7	0	2	0	0	2	20
8:00 AM	0	4	2	0	6	1	6	1	0	8	2	1	5	0	8	0	0	0	0	0	22
8:15 AM	0	3	3	0	6	0	6	1	0	7	4	0	1	0	5	2	1	1	0	4	22
8:30 AM	0	3	3	0	6	1	2	0	0	3	6	0	1	0	7	0	0	0	0	0	16
8:45 AM	0	5	3	0	8	2	2	0	0	4	1	1	1	0	3	0	0	0	0	0	15
Total	0	15	11	0	26	4	16	2	0	22	13	2	8	0	23	2	1	1	0	4	75
Grand Total	0	20	12	0	32	6	19	2	0	27	16	2	12	0	30	2	3	1	0	6	95
Apprch %	0.0	62.5	37.5	0.0		22.2	70.4	7.4	0.0		53.3	6.7	40.0	0.0		33.3	50.0	16.7	0.0		
Total %	0.0	21.1	12.6	0.0	33.7	6.3	20.0	2.1	0.0	28.4	16.8	2.1	12.6	0.0	31.6	2.1	3.2	1.1	0.0	6.3	
Overall Peak Hour Volume	0	12	8	0	20	3	14	2	0	19	13	1	10	0	24	2	2	1	0	5	68



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 9
 Job Number: R006524.0426
 Date: 9/29/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

U-Turn & RTOR

Start Time	Route 0039 Eastbound				Route 0039 Westbound				Progress Ave (SR 3015) Northbound				Progress Ave Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
7:30 AM	0		0	0	0		0	0	0		0	0	0		1	1	1
7:45 AM	0		0	0	0		0	0	0		0	0	0		0	0	0
Total	0		0	0	0		0	0	0		0	0	0		1	1	1
8:00 AM	0		0	0	0		0	0	0		0	0	0		0	0	0
8:15 AM	0		0	0	0		0	0	0		0	0	0		0	0	0
8:30 AM	0		0	0	0		0	0	0		0	0	0		0	0	0
8:45 AM	0		0	0	0		0	0	0		0	0	0		0	0	0
Total	0		0	0	0		0	0	0		0	0	0		0	0	0
Grand Total	0		0	0	0		0	0	0		0	0	0		1	1	1
Aprrch %													0.0	0.0	100.0	0.0	
Total %	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		100.0	100.0	
Overall Peak Hour Volume	0		0	0	0		0	0	0		0	0	0		0	0	0



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 10
 Job Number: R006524.0426
 Date: 10/18/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

All Vehicles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Sturbridge Dr Northbound					Private Driveway Southbound					Int. Total	
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total		
7:30 AM	0	117	59	0	176	24	224	0	0	248	15	0	7	0	22	0	0	0	0	0	0	446
7:45 AM	0	131	44	0	175	37	216	0	0	253	17	0	7	0	24	0	0	0	0	0	0	452
Total	0	248	103	0	351	61	440	0	0	501	32	0	14	0	46	0	0	0	0	0	0	898
8:00 AM	0	156	43	1	200	30	193	0	0	223	19	0	4	0	23	0	0	0	0	0	0	446
8:15 AM	0	134	45	0	179	23	160	0	0	183	14	0	14	2	30	0	0	0	0	0	0	392
8:30 AM	0	156	52	0	208	26	181	0	0	207	24	0	12	0	36	0	0	0	0	0	0	451
8:45 AM	0	140	41	0	181	20	141	0	0	161	19	0	12	1	32	0	0	0	0	0	0	374
Total	0	586	181	1	768	99	675	0	0	774	76	0	42	3	121	0	0	0	0	0	0	1663

Grand Total	0	834	284	1	1119	160	1115	0	0	1275	108	0	56	3	167	0	0	0	0	0	0	2561
Apprch %	0.0	74.5	25.4	0.1		12.5	87.5	0.0	0.0		64.7	0.0	33.5	1.8		0.0	0.0	0.0	0.0	0.0	0.0	
Total %	0.0	32.6	11.1	0.0	43.7	6.2	43.5	0.0	0.0	49.8	4.2	0.0	2.2	0.1	6.5	0.0	0.0	0.0	0.0	0.0	0.0	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Sturbridge Dr Northbound					Private Driveway Southbound					Int. Total	
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total		
Peak Hour From	7:45 AM to 8:45 AM																					
Volume	0	577	184	1	762	116	750	0	0	866	74	0	37	3	114	0	0	0	0	0	0	1742
Percent	0.0	75.7	24.1	0.1		13.4	86.6	0.0	0.0		64.9	0.0	32.5	2.6								
7:45 AM																						
Volume Peak	0	131	44	0	175	37	216	0	0	253	17	0	7	0	24	0	0	0	0	0	0	452
Factor																						
High Int.	8:30 AM					7:45 AM					8:30 AM					7:30 AM						
Volume	0	156	52	0	208	37	216	0	0	253	24	0	12	1	37	0	0	0	0	0	0	0
PHF		0.92	0.88	0.25	0.92	0.78	0.87			0.86	0.77		0.66	0.38	0.77							0.96
Heavy Vehicles %	0%	4%	1%			0%	3%	0%			3%	0%	3%			0%	0%	0%				
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes			
	0		14	0		0		0	0		0		13	1		0		0	0			



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 10
 Job Number: R006524.0426
 Date: 10/18/2016
 Page No: 2

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Sturbridge Dr Northbound					Private Driveway Southbound					Int. Total	
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total		
7:30 AM	0	2	0	0	2	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	4
7:45 AM	0	7	0	0	7	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	8
Total	0	9	0	0	9	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	12
8:00 AM	0	7	0	0	7	0	4	0	0	4	1	0	0	0	1	0	0	0	0	0	0	12
8:15 AM	0	4	1	0	5	0	9	0	0	9	1	0	0	0	1	0	0	0	0	0	0	15
8:30 AM	0	7	1	0	8	0	6	0	0	6	0	0	1	1	2	0	0	0	0	0	0	16
8:45 AM	0	7	1	0	8	0	5	0	0	5	1	0	0	1	2	0	0	0	0	0	0	15
Total	0	25	3	0	28	0	24	0	0	24	3	0	1	2	6	0	0	0	0	0	0	58
Grand Total	0	34	3	0	37	0	27	0	0	27	3	0	1	2	6	0	0	0	0	0	0	70
Apprch %	0.0	91.9	8.1	0.0		0.0	100.0	0.0	0.0		50.0	0.0	16.7	33.3		0.0	0.0	0.0	0.0	0.0		
Total %	0.0	48.6	4.3	0.0	52.9	0.0	38.6	0.0	0.0	38.6	4.3	0.0	1.4	2.9	8.6	0.0	0.0	0.0	0.0	0.0		
Overall Peak Hour Volume	0	25	2	0	27	0	20	0	0	20	2	0	1	1	4	0	0	0	0	0	0	51



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 10
 Job Number: R006524.0426
 Date: 10/18/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

U-Turn & RTOR

Start Time	Route 0039 Eastbound				Route 0039 Westbound				Sturbridge Dr Northbound				Private Driveway Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
7:30 AM	0		6	6	0		0	0	0		4	4	0		0	0	10
7:45 AM	0		3	3	0		0	0	0		5	5	0		0	0	8
Total	0		9	9	0		0	0	0		9	9	0		0	0	18
8:00 AM	0		5	5	0		0	0	0		0	0	0		0	0	5
8:15 AM	0		3	3	0		0	0	0		8	8	0		0	0	11
8:30 AM	0		3	3	0		0	0	0		0	0	0		0	0	3
8:45 AM	0		0	0	0		0	0	0		5	5	0		0	0	5
Total	0		11	11	0		0	0	0		13	13	0		0	0	24
Grand Total	0		20	20	0		0	0	0		22	22	0		0	0	42
Aprrch %	0.0	0.0	100.0	0.0					0.0	0.0	100.0	0.0					
Total %	0.0		47.6	47.6	0.0		0.0	0.0	0.0		52.4	52.4	0.0		0.0	0.0	
Overall Peak Hour Volume	0		14	14	0		0	0	0		13	13	0		0	0	27



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 11
 Job Number: R006524.0426
 Date: 10/13/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

All Vehicles																					
Start Time	Route 0039 Eastbound					Route 0039 Westbound					Private Driveway Northbound					Oakhurst Blvd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:30 AM	7	96	0	0	103	0	220	13	0	233	0	0	0	0	0	8	0	11	0	19	355
7:45 AM	10	126	0	0	136	0	248	12	0	260	0	0	0	0	0	9	0	4	0	13	409
Total	17	222	0	0	239	0	468	25	0	493	0	0	0	0	0	17	0	15	0	32	764
8:00 AM	9	136	0	0	145	0	191	8	0	199	0	0	0	0	0	9	0	7	0	16	360
8:15 AM	6	140	0	0	146	0	188	13	0	201	0	0	0	0	0	4	0	9	0	13	360
8:30 AM	21	119	0	0	140	0	186	22	0	208	0	0	0	0	0	13	0	9	0	22	370
8:45 AM	15	141	0	0	156	0	163	24	0	187	0	0	0	0	0	11	0	6	0	17	360
Total	51	536	0	0	587	0	728	67	0	795	0	0	0	0	0	37	0	31	0	68	1450
Grand Total	68	758	0	0	826	0	1196	92	0	1288	0	0	0	0	0	54	0	46	0	100	2214
Apprch %	8.2	91.8	0.0	0.0		0.0	92.9	7.1	0.0		0.0	0.0	0.0	0.0		54.0	0.0	46.0	0.0		
Total %	3.1	34.2	0.0	0.0	37.3	0.0	54.0	4.2	0.0	58.2	0.0	0.0	0.0	0.0	0.0	2.4	0.0	2.1	0.0	4.5	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Private Driveway Northbound					Oakhurst Blvd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	7:45 AM to 8:45 AM																				
Volume	46	521	0	0	567	0	813	55	0	868	0	0	0	0	0	35	0	29	0	64	1499
Percent	8.1	91.9	0.0	0.0		0.0	93.7	6.3	0.0							54.7	0.0	45.3	0.0		
7:45 AM																					
Volume Peak	10	126	0	0	136	0	248	12	0	260	0	0	0	0	0	9	0	4	0	13	409
Factor																					
High Int.	8:45 AM					7:45 AM					8:45 AM					8:30 AM					
Volume	15	141	0	0	156	0	248	12	0	260	0	0	0	1	1	13	0	9	0	22	
PHF	0.55	0.93			0.97		0.82	0.63		0.83						0.67		0.81		0.73	0.92
Heavy Vehicles %	7%	2%	0%			0%	1%	4%			0%	0%	0%			11%	0%	3%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		2	0		0		0	0		0		18	0		



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 11
 Job Number: R006524.0426
 Date: 10/13/2016
 Page No: 2

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Private Driveway Northbound					Oakhurst Blvd Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
7:30 AM	0	2	0	0	2	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	6
7:45 AM	0	7	0	0	7	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	8
Total	0	9	0	0	9	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	14
8:00 AM	2	1	0	0	3	0	1	0	0	1	0	0	0	0	0	2	0	0	0	2	6
8:15 AM	0	4	0	0	4	0	3	1	0	4	0	0	0	0	0	1	0	0	0	1	9
8:30 AM	1	1	0	0	2	0	1	1	0	2	0	0	0	0	0	1	0	1	0	2	6
8:45 AM	0	3	0	0	3	0	1	0	0	1	0	0	0	1	1	1	0	0	0	1	6
Total	3	9	0	0	12	0	6	2	0	8	0	0	0	1	1	5	0	1	0	6	27
Grand Total	3	18	0	0	21	0	11	2	0	13	0	0	0	1	1	5	0	1	0	6	41
Apprch %	14.3	85.7	0.0	0.0		0.0	84.6	15.4	0.0		0.0	0.0	0.0	100.0		83.3	0.0	16.7	0.0		
Total %	7.3	43.9	0.0	0.0	51.2	0.0	26.8	4.9	0.0	31.7	0.0	0.0	0.0	2.4	2.4	12.2	0.0	2.4	0.0	14.6	
Overall Peak Hour Volume	3	13	0	0	16	0	6	2	0	8	0	0	0	0	0	4	0	1	0	5	29



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 11
 Job Number: R006524.0426
 Date: 10/13/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

U-Turn & RTOR

Start Time	Route 0039 Eastbound				Route 0039 Westbound				Private Driveway Northbound				Oakhurst Blvd Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
7:30 AM	0		0	0	0		0	0	0		0	0	0		7	7	7
7:45 AM	0		0	0	0		0	0	0		0	0	0		1	1	1
Total	0		0	0	0		0	0	0		0	0	0		8	8	8
8:00 AM	0		0	0	0		1	1	0		0	0	0		5	5	6
8:15 AM	0		0	0	0		0	0	0		0	0	0		8	8	8
8:30 AM	0		0	0	0		1	1	0		0	0	0		4	4	5
8:45 AM	0		0	0	0		0	0	0		0	0	0		3	3	3
Total	0		0	0	0		2	2	0		0	0	0		20	20	22
Grand Total	0		0	0	0		0	0	0		0	0	0		28	28	28
Aprrch %													0.0	0.0	100.0	0.0	
Total %	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		100.0	100.0	
Overall Peak Hour Volume	0		0	0	0		2	2	0		0	0	0		18	18	20



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 12
 Job Number: R006524.0426
 Date: 10/5/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

All Vehicles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Crums Mill Rd Northbound					N/A Southbound					Int. Total	
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total		
7:30 AM	0	111	2	0	113	15	235	0	0	250	6	0	11	0	17	0	0	0	0	0	0	380
7:45 AM	0	124	15	0	139	21	219	0	0	240	9	0	16	0	25	0	0	0	0	0	0	404
Total	0	235	17	0	252	36	454	0	0	490	15	0	27	0	42	0	0	0	0	0	0	784
8:00 AM	0	141	10	0	151	18	211	0	0	229	7	0	17	0	24	0	0	0	0	0	0	404
8:15 AM	0	135	6	0	141	18	168	0	0	186	10	0	9	1	20	0	0	0	0	0	0	347
8:30 AM	0	124	11	0	135	10	186	0	0	196	8	0	18	0	26	0	0	0	0	0	0	357
8:45 AM	0	136	8	0	144	11	174	0	0	185	14	0	11	0	25	0	0	0	0	0	0	354
Total	0	536	35	0	571	57	739	0	0	796	39	0	55	1	95	0	0	0	0	0	0	1462
Grand Total	0	771	52	0	823	93	1193	0	0	1286	54	0	82	1	137	0	0	0	0	0	0	2246
Apprch %	0.0	93.7	6.3	0.0		7.2	92.8	0.0	0.0		39.4	0.0	59.9	0.7		0.0	0.0	0.0	0.0	0.0	0.0	
Total %	0.0	34.3	2.3	0.0	36.6	4.1	53.1	0.0	0.0	57.3	2.4	0.0	3.7	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Crums Mill Rd Northbound					N/A Southbound					Int. Total	
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total		
Peak Hour From	7:30 AM to 8:30 AM																					
Volume	0	511	33	0	544	72	833	0	0	905	32	0	53	2	87	0	0	0	0	0	0	1536
Percent	0.0	93.9	6.1	0.0		8.0	92.0	0.0	0.0		36.8	0.0	60.9	2.3								
7:45 AM Volume	0	124	15	0	139	21	219	0	0	240	9	0	16	0	25	0	0	0	0	0	0	404
Peak Factor																						
High Int.	8:00 AM					7:30 AM					8:30 AM					7:30 AM						
Volume	0	141	10	0	151	15	235	0	0	250	8	0	18	0	26	0	0	0	0	0	0	0.95
PHF	0.91	0.55		0.90		0.86	0.89		0.91		0.80		0.78	0.25	0.87							
Heavy Vehicles %	0%	3%	0%			1%	1%	0%			3%	0%	4%			0%	0%	0%				
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes			
	0		0	0		0		0	0		0		0	0		0		0	0			



AN EMPLOYEE-OWNED COMPANY

Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 12
 Job Number: R006524.0426
 Date: 10/5/2016
 Page No: 2

Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Crums Mill Rd Northbound					N/A Southbound					Int. Total	
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total		
7:30 AM	0	1	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2
7:45 AM	0	3	0	0	3	1	1	0	0	2	1	0	1	0	2	0	0	0	0	0	0	7
Total	0	4	0	0	4	1	1	0	0	2	1	0	2	0	3	0	0	0	0	0	0	9
8:00 AM	0	9	0	0	9	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	13
8:15 AM	0	2	0	0	2	0	6	0	0	6	0	0	0	1	1	0	0	0	0	0	0	9
8:30 AM	0	3	1	0	4	1	2	0	0	3	0	0	1	0	1	0	0	0	0	0	0	8
8:45 AM	0	2	1	0	3	0	4	0	0	4	1	0	0	0	1	0	0	0	0	0	0	8
Total	0	16	2	0	18	1	16	0	0	17	1	0	1	1	3	0	0	0	0	0	0	38
Grand Total	0	20	2	0	22	2	17	0	0	19	2	0	3	1	6	0	0	0	0	0	0	47
Apprch %	0.0	90.9	9.1	0.0		10.5	89.5	0.0	0.0		33.3	0.0	50.0	16.7								
Total %	0.0	42.6	4.3	0.0	46.8	4.3	36.2	0.0	0.0	40.4	4.3	0.0	6.4	2.1	12.8	0.0	0.0	0.0	0.0	0.0	0.0	
Overall Peak Hour Volume	0	15	0	0	15	1	11	0	0	12	1	0	2	1	4	0	0	0	0	0	0	31



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 13
 Job Number: R006524.0426
 Date: 10/6/2016
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

All Vehicles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Versailles Rd Northbound					Dover Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:30 AM	9	111	1	0	121	0	218	3	0	221	3	0	2	0	5	7	0	37	0	44	391
7:45 AM	8	126	0	0	134	0	219	7	1	227	2	0	0	0	2	6	0	30	0	36	399
Total	17	237	1	0	255	0	437	10	1	448	5	0	2	0	7	13	0	67	0	80	790
8:00 AM	6	132	0	0	138	2	175	5	0	182	2	0	3	0	5	9	0	37	0	46	371
8:15 AM	10	139	2	0	151	3	174	5	0	182	3	0	2	0	5	6	0	27	0	33	371
8:30 AM	1	121	0	0	122	0	164	4	0	168	0	0	0	0	0	5	1	25	0	31	321
8:45 AM	8	126	3	0	137	3	113	4	0	120	2	0	2	0	4	7	0	33	0	40	301
Total	25	518	5	0	548	8	626	18	0	652	7	0	7	0	14	27	1	122	0	150	1364

Grand Total	42	755	6	0	803	8	1063	28	1	1100	12	0	9	0	21	40	1	189	0	230	2154
Apprch %	5.2	94.0	0.7	0.0		0.7	96.6	2.5	0.1		57.1	0.0	42.9	0.0		17.4	0.4	82.2	0.0		
Total %	1.9	35.1	0.3	0.0	37.3	0.4	49.4	1.3	0.0	51.1	0.6	0.0	0.4	0.0	1.0	1.9	0.0	8.8	0.0	10.7	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Versailles Rd Northbound					Dover Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	7:30 AM to 8:30 AM																				
Volume	33	508	3	0	544	5	786	20	1	812	10	0	7	0	17	28	0	131	0	159	1532
Percent	6.1	93.4	0.6	0.0		0.6	96.8	2.5	0.1		58.8	0.0	41.2	0.0		17.6	0.0	82.4	0.0		
7:45 AM																					
Volume Peak	8	126	0	0	134	0	219	7	1	227	2	0	0	0	2	6	0	30	0	36	399
Factor																					
High Int.	8:15 AM					7:45 AM					7:30 AM					8:00 AM					
Volume	10	139	2	0	151	0	219	7	1	227	3	0	2	0	5	9	0	37	0	46	
PHF	0.83	0.91	0.38		0.90	0.42	0.90	0.71	0.25	0.89	0.83		0.58		0.85	0.78		0.89		0.86	0.96
Heavy Vehicles %	0%	3%	33%			0%	2%	0%			10%	0%	0%			0%	0%	4%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		1	0		0		4	0		0		66	0		



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 13
 Job Number: R006524.0426
 Date: 10/6/2016
 Page No: 2

Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Versailles Rd Northbound					Dover Rd Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
7:30 AM	0	2	0	0	2	0	1	0	0	1	0	0	0	0	0	0	0	1	0	1	4
7:45 AM	0	4	0	0	4	0	3	0	0	3	0	0	0	0	0	0	0	1	0	1	8
Total	0	6	0	0	6	0	4	0	0	4	0	0	0	0	0	0	0	2	0	2	12
8:00 AM	0	3	0	0	3	0	5	0	0	5	0	0	0	0	0	0	0	3	0	3	11
8:15 AM	0	8	1	0	9	0	6	0	0	6	1	0	0	0	1	0	0	0	0	0	16
8:30 AM	0	5	0	0	5	0	7	0	0	7	0	0	0	0	0	1	0	0	0	1	13
8:45 AM	0	5	0	0	5	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	7
Total	0	21	1	0	22	0	20	0	0	20	1	0	0	0	1	1	0	3	0	4	47
Grand Total	0	27	1	0	28	0	24	0	0	24	1	0	0	0	1	1	0	5	0	6	59
Apprch %	0.0	96.4	3.6	0.0		0.0	100.0	0.0	0.0		100.0	0.0	0.0	0.0		16.7	0.0	83.3	0.0		
Total %	0.0	45.8	1.7	0.0	47.5	0.0	40.7	0.0	0.0	40.7	1.7	0.0	0.0	0.0	1.7	1.7	0.0	8.5	0.0	10.2	
Overall Peak Hour Volume	0	17	1	0	18	0	15	0	0	15	1	0	0	0	1	0	0	5	0	5	39



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 13
 Job Number: R006524.0426
 Date: 10/6/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

U-Turn & RTOR

Start Time	Route 0039 Eastbound				Route 0039 Westbound				Versailles Rd Northbound				Dover Rd Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
7:30 AM	0		0	0	0		0	0	0		0	0	0		13	13	13
7:45 AM	0		0	0	0		0	0	0		0	0	0		14	14	14
Total	0		0	0	0		0	0	0		0	0	0		27	27	27
8:00 AM	0		0	0	0		0	0	0		3	3	0		20	20	23
8:15 AM	0		0	0	0		1	1	0		1	1	0		19	19	21
8:30 AM	0		0	0	0		0	0	0		0	0	0		19	19	19
8:45 AM	0		1	1	0		0	0	0		2	2	0		29	29	32
Total	0		1	1	0		1	1	0		6	6	0		87	87	95
Grand Total	0		1	1	0		0	0	0		6	6	0		114	114	121
Apprch %	0.0	0.0	100.0	0.0					0.0	0.0	100.0	0.0	0.0	0.0	100.0	0.0	
Total %	0.0		0.8	0.8	0.0		0.0	0.0	0.0		5.0	5.0	0.0		94.2	94.2	
Overall Peak Hour Volume	0		0	0	0		1	1	0		4	4	0		66	66	71



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 14
 Job Number: R006524.0426
 Date: 10/5/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Ringneck Dr Northbound					Forest Hills Dr Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:30 AM	5	97	4	0	106	0	192	17	0	209	11	0	17	0	28	12	0	13	0	25	368
7:45 AM	7	121	2	0	130	7	206	10	0	223	9	0	7	0	16	14	0	7	0	21	390
Total	12	218	6	0	236	7	398	27	0	432	20	0	24	0	44	26	0	20	0	46	758
8:00 AM	8	138	1	0	147	2	192	14	0	208	11	1	4	0	16	6	1	11	0	18	389
8:15 AM	10	125	1	0	136	4	140	15	22	181	6	0	5	0	11	14	0	12	0	26	354
8:30 AM	15	117	4	24	160	5	154	17	0	176	11	0	12	0	23	11	0	13	1	25	384
8:45 AM	5	129	2	0	136	4	161	12	0	177	7	0	8	0	15	12	0	6	0	18	346
Total	38	509	8	24	579	15	647	58	22	742	35	1	29	0	65	43	1	42	1	87	1473
Grand Total	50	727	14	24	815	22	1045	85	22	1174	55	1	53	0	109	69	1	62	1	133	2231
Apprch %	6.1	89.2	1.7	2.9		1.9	89.0	7.2	1.9		50.5	0.9	48.6	0.0		51.9	0.8	46.6	0.8		
Total %	2.2	32.6	0.6	1.1	36.5	1.0	46.8	3.8	1.0	52.6	2.5	0.0	2.4	0.0	4.9	3.1	0.0	2.8	0.0	6.0	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Ringneck Dr Northbound					Forest Hills Dr Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	7:45 AM					to					8:45 AM										
Volume	40	501	8	24	573	18	692	56	22	788	37	1	28	0	66	45	1	43	1	90	1517
Percent	7.0	87.4	1.4	4.2		2.3	87.8	7.1	2.8		56.1	1.5	42.4	0.0		50.0	1.1	47.8	1.1		
7:45 AM																					
Volume	7	121	2	0	130	7	206	10	0	223	9	0	7	0	16	14	0	7	0	21	390
Peak Factor																					
High Int.	8:30 AM					7:45 AM					7:30 AM					8:15 AM					
Volume	15	117	4	24	160	7	206	10	0	223	11	0	17	0	28	14	0	12	0	26	
PHF	0.67	0.91	0.50	0.25	0.90	0.64	0.84	0.82	0.25	0.88	0.84	0.25	0.58	0.72		0.80	0.25	0.83	0.25	0.87	0.97
Heavy Vehicles %	3%	3%	13%			11%	2%	0%			3%	0%	7%			2%	0%	2%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



AN EMPLOYEE-OWNED COMPANY

Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
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Intersection #: 14
 Job Number: R006524.0426
 Date: 10/5/2016
 Page No: 2

Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Ringneck Dr Northbound					Forest Hills Dr Southbound					Int. Total	
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total		
7:30 AM	0	2	0	0	2	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	3
7:45 AM	0	5	0	0	5	1	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	8
Total	0	7	0	0	7	1	0	1	0	2	1	0	0	0	1	1	0	0	0	0	1	11
8:00 AM	0	5	0	0	5	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	7
8:15 AM	1	1	0	0	2	0	3	0	0	3	0	0	0	0	0	0	0	1	0	0	1	6
8:30 AM	0	4	1	0	5	1	6	0	0	7	0	0	2	0	2	0	0	0	0	0	0	14
8:45 AM	0	3	0	0	3	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	9
Total	1	13	1	0	15	1	17	0	0	18	0	0	2	0	2	0	0	1	0	0	1	36
Grand Total	1	20	1	0	22	2	17	1	0	20	1	0	2	0	3	1	0	1	0	2		47
Apprch %	4.5	90.9	4.5	0.0		10.0	85.0	5.0	0.0		33.3	0.0	66.7	0.0		50.0	0.0	50.0	0.0			
Total %	2.1	42.6	2.1	0.0	46.8	4.3	36.2	2.1	0.0	42.6	2.1	0.0	4.3	0.0	6.4	2.1	0.0	2.1	0.0	4.3		
Overall Peak Hour Volume	1	15	1	0	17	2	11	0	0	13	1	0	2	0	3	1	0	1	0	2		35



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 15
 Job Number: R006524.0426
 Date: 10/27/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Colonial Rd (SR 3017) Northbound					Colonial Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:30 AM	7	75	27	0	109	44	130	13	0	187	44	16	36	0	96	34	42	28	0	104	496
7:45 AM	5	117	31	0	153	41	172	19	1	233	39	15	28	0	82	29	32	31	0	92	560
Total	12	192	58	0	262	85	302	32	1	420	83	31	64	0	178	63	74	59	0	196	1056
8:00 AM	10	77	18	0	105	36	155	17	0	208	29	15	27	0	71	38	34	22	0	94	478
8:15 AM	9	75	25	0	109	42	147	13	0	202	43	13	22	0	78	31	30	13	0	74	463
8:30 AM	10	76	37	0	123	40	119	16	0	175	47	9	22	0	78	23	23	18	0	64	440
8:45 AM	10	74	38	0	122	40	108	10	0	158	41	14	26	0	81	13	41	6	0	60	421
Total	39	302	118	0	459	158	529	56	0	743	160	51	97	0	308	105	128	59	0	292	1802
Grand Total	51	494	176	0	721	243	831	88	1	1163	243	82	161	0	486	168	202	118	0	488	2858
Apprch %	7.1	68.5	24.4	0.0		20.9	71.5	7.6	0.1		50.0	16.9	33.1	0.0		34.4	41.4	24.2	0.0		
Total %	1.8	17.3	6.2	0.0	25.2	8.5	29.1	3.1	0.0	40.7	8.5	2.9	5.6	0.0	17.0	5.9	7.1	4.1	0.0	17.1	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Colonial Rd (SR 3017) Northbound					Colonial Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	7:30 AM to 8:30 AM																				
Volume	31	344	101	0	476	163	604	62	1	830	155	59	113	0	327	132	138	94	0	364	1997
Percent	6.5	72.3	21.2	0.0		19.6	72.8	7.5	0.1		47.4	18.0	34.6	0.0		36.3	37.9	25.8	0.0		
7:45 AM																					
Volume Peak	5	117	31	0	153	41	172	19	1	233	39	15	28	0	82	29	32	31	0	92	560
Factor																					
High Int.	7:45 AM					7:45 AM					7:30 AM					7:30 AM					
Volume	5	117	31	0	153	41	172	19	1	233	44	16	36	0	96	34	42	28	0	104	
PHF	0.78	0.74	0.81	0.78		0.93	0.88	0.82	0.25	0.89	0.88	0.92	0.78	0.85		0.87	0.82	0.76	0.88		0.89
Heavy Vehicles %	6%	3%	4%			3%	2%	8%			3%	3%	4%			3%	1%	1%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		11	0		0		0	0		0		40	0		0		0	0		



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 15
 Job Number: R006524.0426
 Date: 10/27/2016
 Page No: 2

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Colonial Rd (SR 3017) Northbound					Colonial Rd Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
7:30 AM	0	2	2	0	4	1	3	0	0	4	1	1	2	0	4	1	2	0	0	3	15
7:45 AM	0	5	1	0	6	1	4	1	0	6	0	0	0	0	0	0	0	0	0	0	12
Total	0	7	3	0	10	2	7	1	0	10	1	1	2	0	4	1	2	0	0	3	27
8:00 AM	2	1	1	0	4	1	1	1	0	3	2	1	2	0	5	2	0	1	0	3	15
8:15 AM	0	1	0	0	1	2	6	3	0	11	1	0	1	0	2	1	0	0	0	1	15
8:30 AM	0	2	3	0	5	2	4	2	0	8	0	0	0	0	0	1	0	2	0	3	16
8:45 AM	0	4	1	0	5	2	4	0	0	6	0	0	0	0	0	0	1	1	0	2	13
Total	2	8	5	0	15	7	15	6	0	28	3	1	3	0	7	4	1	4	0	9	59
Grand Total	2	15	8	0	25	9	22	7	0	38	4	2	5	0	11	5	3	4	0	12	86
Apprch %	8.0	60.0	32.0	0.0		23.7	57.9	18.4	0.0		36.4	18.2	45.5	0.0		41.7	25.0	33.3	0.0		
Total %	2.3	17.4	9.3	0.0	29.1	10.5	25.6	8.1	0.0	44.2	4.7	2.3	5.8	0.0	12.8	5.8	3.5	4.7	0.0	14.0	
Overall Peak Hour Volume	2	9	4	0	15	5	14	5	0	24	4	2	5	0	11	4	2	1	0	7	57



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 15
 Job Number: R006524.0426
 Date: 10/27/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

U-Turn & RTOR

Start Time	Route 0039 Eastbound				Route 0039 Westbound				Colonial Rd (SR 3017) Northbound				Colonial Rd Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
7:30 AM	0		3	3	0		0	0	0		12	12	0		0	0	15
7:45 AM	0		5	5	0		0	0	0		8	8	0		0	0	13
Total	0		8	8	0		0	0	0		20	20	0		0	0	28
8:00 AM	0		1	1	0		0	0	0		10	10	0		0	0	11
8:15 AM	0		2	2	0		0	0	0		10	10	0		0	0	12
8:30 AM	0		0	0	0		0	0	0		10	10	0		0	0	10
8:45 AM	0		0	0	0		0	0	0		5	5	0		0	0	5
Total	0		3	3	0		0	0	0		35	35	0		0	0	38
Grand Total	0		11	11	0		0	0	0		55	55	0		0	0	66
Apprch %	0.0	0.0	100.0	0.0					0.0	0.0	100.0	0.0					
Total %	0.0		16.7	16.7	0.0		0.0	0.0	0.0		83.3	83.3	0.0		0.0	0.0	
Overall Peak Hour Volume	0		11	11	0		0	0	0		40	40	0		0	0	51



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 16
 Job Number: R006524.0426
 Date: 9/28/2016
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

All Vehicles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Woodview Rd Northbound					Patton Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:30 AM	8	120	0	0	128	0	153	10	0	163	2	1	0	0	3	15	0	37	0	52	346
7:45 AM	9	140	3	0	152	0	221	2	2	225	2	0	0	1	3	21	1	24	0	46	426
Total	17	260	3	0	280	0	374	12	2	388	4	1	0	1	6	36	1	61	0	98	772
8:00 AM	10	102	6	0	118	2	149	2	0	153	1	0	2	0	3	13	0	16	0	29	303
8:15 AM	10	99	3	0	112	2	151	7	0	160	2	0	0	0	2	22	1	28	0	51	325
8:30 AM	18	102	1	0	121	0	104	3	0	107	6	0	1	0	7	21	3	18	0	42	277
8:45 AM	25	117	1	0	143	0	126	10	0	136	1	0	1	0	2	13	1	25	0	39	320
Total	63	420	11	0	494	4	530	22	0	556	10	0	4	0	14	69	5	87	0	161	1225

Grand Total	80	680	14	0	774	4	904	34	2	944	14	1	4	1	20	105	6	148	0	259	1997
Apprch %	10.3	87.9	1.8	0.0		0.4	95.8	3.6	0.2		70.0	5.0	20.0	5.0		40.5	2.3	57.1	0.0		
Total %	4.0	34.1	0.7	0.0	38.8	0.2	45.3	1.7	0.1	47.3	0.7	0.1	0.2	0.1	1.0	5.3	0.3	7.4	0.0	13.0	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Woodview Rd Northbound					Patton Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	7:30 AM to 8:30 AM																				
Volume	37	461	12	0	510	4	674	21	2	701	7	1	2	2	12	71	2	105	0	178	1401
Percent	7.3	90.4	2.4	0.0		0.6	96.1	3.0	0.3		58.3	8.3	16.7	16.7		39.9	1.1	59.0	0.0		
7:45 AM																					
Volume Peak	9	140	3	0	152	0	221	2	2	225	2	0	0	1	3	21	1	24	0	46	426
Factor																					
High Int.	7:45 AM					7:45 AM					8:30 AM					7:30 AM					
Volume	9	140	3	0	152	0	221	2	2	225	6	0	1	0	7	15	0	37	0	52	
PHF	0.93	0.82	0.50		0.84	0.50	0.76	0.53	0.25	0.78	0.88	0.25	0.25	0.50	0.75	0.81	0.50	0.71		0.86	0.82
Heavy Vehicles %	5%	3%	8%			0%	2%	14%			14%	0%	0%			0%	0%	6%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	1		0		20	0		



AN EMPLOYEE-OWNED COMPANY

Route 0039 Land Use and Traffic Study
AM PEAK HOUR

Herbert, Rowland & Grubic, Inc.
369 East Park Drive
Harrisburg, PA 17111
(717) 564-1121

Intersection #: 16
Job Number: R006524.0426
Date: 9/28/2016
Page No: 2

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Woodview Rd Northbound					Patton Rd Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
7:30 AM	0	4	0	0	4	0	3	2	0	5	0	0	0	0	0	0	0	5	0	5	14
7:45 AM	0	4	1	0	5	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	7
Total	0	8	1	0	9	0	5	2	0	7	0	0	0	0	0	0	0	5	0	5	21
8:00 AM	1	1	0	0	2	0	4	1	0	5	1	0	0	1	2	0	0	0	0	0	9
8:15 AM	1	5	0	0	6	0	5	0	0	5	0	0	0	0	0	0	0	1	0	1	12
8:30 AM	2	5	0	0	7	0	4	1	0	5	0	0	0	0	0	0	1	1	0	2	14
8:45 AM	0	3	0	0	3	0	3	0	0	3	0	0	0	0	0	0	0	2	0	2	8
Total	4	14	0	0	18	0	16	2	0	18	1	0	0	1	2	0	1	4	0	5	43
Grand Total	4	22	1	0	27	0	21	4	0	25	1	0	0	1	2	0	1	9	0	10	64
Apprch %	14.8	81.5	3.7	0.0		0.0	84.0	16.0	0.0		50.0	0.0	0.0	50.0		0.0	10.0	90.0	0.0		
Total %	6.3	34.4	1.6	0.0	42.2	0.0	32.8	6.3	0.0	39.1	1.6	0.0	0.0	1.6	3.1	0.0	1.6	14.1	0.0	15.6	
Overall Peak Hour Volume	2	14	1	0	17	0	14	3	0	17	1	0	0	1	2	0	0	6	0	6	42



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 16
 Job Number: R006524.0426
 Date: 9/28/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

U-Turn & RTOR

Start Time	Route 0039 Eastbound				Route 0039 Westbound				Woodview Rd Northbound				Patton Rd Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
7:30 AM	0		0	0	0		0	0	0		0	0	0		17	17	17
7:45 AM	0		0	0	0		0	0	0		0	0	0		3	3	3
Total	0		0	0	0		0	0	0		0	0	0		20	20	20
8:00 AM	0		0	0	0		0	0	0		0	0	0		0	0	0
8:15 AM	0		0	0	0		0	0	0		0	0	0		0	0	0
8:30 AM	0		0	0	0		0	0	0		0	0	0		0	0	0
8:45 AM	0		0	0	0		0	0	0		0	0	0		0	0	0
Total	0		0	0	0		0	0	0		0	0	0		0	0	0
Grand Total	0		0	0	0		0	0	0		0	0	0		20	20	20
Aprrch %													0.0	0.0	100.0	0.0	
Total %	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		100.0	100.0	
Overall Peak Hour Volume	0		0	0	0		0	0	0		0	0	0		20	20	20



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 17
 Job Number: R006524.0426
 Date: 6/7/2016
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

All Vehicles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Pennsylvania Ave Northbound					Blue Mountain Pkwy Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:00 AM	4	123	0	0	127	1	71	0	0	72	1	0	0	0	1	35	0	19	0	54	254
7:15 AM	4	172	8	0	184	0	108	3	0	111	0	0	2	0	2	35	2	18	1	56	353
7:30 AM	6	134	11	0	151	0	165	6	0	171	3	0	1	0	4	27	2	23	0	52	378
7:45 AM	3	94	1	0	98	1	146	0	0	147	1	1	0	0	2	36	0	18	1	55	302
Total	17	523	20	0	560	2	490	9	0	501	5	1	3	0	9	133	4	78	2	217	1287
8:00 AM	5	71	2	0	78	0	125	1	0	126	0	0	1	0	1	26	0	12	0	38	243
8:15 AM	10	70	1	0	81	0	116	1	0	117	2	0	0	0	2	30	0	12	0	42	242
Total	15	141	3	0	159	0	241	2	0	243	2	0	1	0	3	56	0	24	0	80	485
Grand Total	32	664	23	0	719	2	731	11	0	744	7	1	4	0	12	189	4	102	2	297	1772
Apprch %	4.5	92.4	3.2	0.0		0.3	98.3	1.5	0.0		58.3	8.3	33.3	0.0		63.6	1.3	34.3	0.7		
Total %	1.8	37.5	1.3	0.0	40.6	0.1	41.3	0.6	0.0	42.0	0.4	0.1	0.2	0.0	0.7	10.7	0.2	5.8	0.1	16.8	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Pennsylvania Ave Northbound					Blue Mountain Pkwy Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	7:00 AM to 8:00 AM																				
Volume	17	523	20	0	560	2	490	9	0	501	5	1	3	0	9	133	4	78	2	217	1287
Percent	3.0	93.4	3.6	0.0		0.4	97.8	1.8	0.0		55.6	11.1	33.3	0.0		61.3	1.8	35.9	0.9		
7:30 AM																					
Volume	6	134	11	0	151	0	165	6	0	171	3	0	1	0	4	27	2	23	0	52	378
Peak Factor																					
High Int.	7:15 AM					7:30 AM					7:30 AM					7:15 AM					
Volume	4	172	8	0	184	0	165	6	0	171	3	0	1	0	4	35	2	18	1	56	
PHF	0.71	0.76	0.45	0.76		0.50	0.74	0.38	0.73		0.42	0.25	0.38	0.56		0.92	0.50	0.85	0.50	0.97	0.85
Heavy Vehicles %	0%	3%	0%			0%	2%	0%			0%	0%	0%			2%	0%	1%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



AN EMPLOYEE-OWNED COMPANY

Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 17
 Job Number: R006524.0426
 Date: 6/7/2016
 Page No: 2

Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Pennsylvania Ave Northbound					Blue Mountain Pkwy Southbound					Int. Total	
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total		
7:00 AM	0	8	0	0	8	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	9
7:15 AM	0	4	0	0	4	0	5	0	0	5	0	0	0	0	0	0	0	1	0	0	1	10
7:30 AM	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
7:45 AM	0	3	0	0	3	0	3	0	0	3	0	0	0	0	0	1	0	0	0	0	1	7
Total	0	15	0	0	15	0	11	0	0	11	0	0	0	0	0	2	0	1	0	3	29	
8:00 AM	0	0	1	0	1	0	3	1	0	4	0	0	0	0	0	0	0	1	0	0	1	6
8:15 AM	0	2	0	0	2	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	5
Total	0	2	1	0	3	0	6	1	0	7	0	0	0	0	0	0	0	1	0	1	11	
Grand Total	0	17	1	0	18	0	17	1	0	18	0	0	0	0	0	2	0	2	0	4	40	
Apprch %	0.0	94.4	5.6	0.0		0.0	94.4	5.6	0.0							50.0	0.0	50.0	0.0			
Total %	0.0	42.5	2.5	0.0	45.0	0.0	42.5	2.5	0.0	45.0	0.0	0.0	0.0	0.0		5.0	0.0	5.0	0.0	10.0		
Overall Peak Hour Volume	0	15	0	0	15	0	11	0	0	11	0	0	0	0	0	2	0	1	0	3	29	



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 18
 Job Number: R006524.0426
 Date: 6/8/2016
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

All Vehicles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Mountain Rd (SR 3019) Northbound					Mountain Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:00 AM	0	77	61	0	138	29	68	2	0	99	25	2	21	0	48	3	10	0	0	13	298
7:15 AM	0	93	80	0	173	37	84	1	0	122	39	1	27	0	67	5	18	1	0	24	386
7:30 AM	4	78	67	0	149	44	140	3	0	187	48	4	23	0	75	9	9	4	0	22	433
7:45 AM	2	31	67	0	100	34	100	1	0	135	67	1	11	0	79	0	6	3	0	9	323
Total	6	279	275	0	560	144	392	7	0	543	179	8	82	0	269	17	43	8	0	68	1440
8:00 AM	0	41	56	0	97	40	79	6	1	126	56	2	6	0	64	4	8	1	0	13	300
8:15 AM	2	48	58	0	108	31	74	1	0	106	57	2	13	0	72	1	5	0	2	8	294
Total	2	89	114	0	205	71	153	7	1	232	113	4	19	0	136	5	13	1	2	21	594
Grand Total	8	368	389	0	765	215	545	14	1	775	292	12	101	0	405	22	56	9	2	89	2034
Apprch %	1.0	48.1	50.8	0.0		27.7	70.3	1.8	0.1		72.1	3.0	24.9	0.0		24.7	62.9	10.1	2.2		
Total %	0.4	18.1	19.1	0.0	37.6	10.6	26.8	0.7	0.0	38.1	14.4	0.6	5.0	0.0	19.9	1.1	2.8	0.4	0.1	4.4	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Mountain Rd (SR 3019) Northbound					Mountain Rd Southbound					Int. Total				
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total					
Peak Hour From	7:15 AM to 8:15 AM																								
Volume	6	243	270	0	519	155	403	11	1	570	210	8	67	0	285	18	41	9	0	68	1442				
Percent	1.2	46.8	52.0	0.0		27.2	70.7	1.9	0.2		73.7	2.8	23.5	0.0		26.5	60.3	13.2	0.0						
7:30 AM																									
Volume	4	78	67	0	149	44	140	3	0	187	48	4	23	0	75	9	9	4	0	22	433				
Factor																									
High Int.	7:15 AM					7:30 AM					7:45 AM					7:15 AM									
Volume	0	93	80	0	173	44	140	3	0	187	67	1	11	0	79	5	18	1	0	24					
PHF	0.38	0.65	0.84	0.75		0.88	0.72	0.46	0.25	0.76	0.78	0.50	0.62	0.90		0.50	0.57	0.56	0.71		0.83				
Heavy Vehicles %	0%	2%	4%			2%	2%	0%			6%	13%	4%			0%	0%	0%							
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes						
	0		0	0		0		0	0		0		0	0		0		0	0						



AN EMPLOYEE-OWNED COMPANY

Route 0039 Land Use and Traffic Study
AM PEAK HOUR

Herbert, Rowland & Grubic, Inc.
369 East Park Drive
Harrisburg, PA 17111
(717) 564-1121

Intersection #: 18
Job Number: R006524.0426
Date: 6/8/2016
Page No: 2

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Mountain Rd (SR 3019) Northbound					Mountain Rd Southbound					Int. Total	
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total		
7:00 AM	0	7	4	0	11	2	2	0	0	4	1	0	3	0	4	0	0	0	0	0	0	19
7:15 AM	0	1	2	0	3	2	4	0	0	6	3	0	1	0	4	0	0	0	0	0	0	13
7:30 AM	0	1	1	0	2	0	1	0	0	1	2	1	1	0	4	0	0	0	0	0	0	7
7:45 AM	0	1	4	0	5	0	2	0	0	2	2	0	0	0	2	0	0	0	0	0	0	9
Total	0	10	11	0	21	4	9	0	0	13	8	1	5	0	14	0	0	0	0	0	0	48
8:00 AM	0	1	3	0	4	1	1	0	0	2	5	0	1	0	6	0	0	0	0	0	0	12
8:15 AM	0	4	4	0	8	0	1	0	0	1	5	2	0	0	7	0	0	0	0	0	0	16
Total	0	5	7	0	12	1	2	0	0	3	10	2	1	0	13	0	0	0	0	0	0	28
Grand Total	0	15	18	0	33	5	11	0	0	16	18	3	6	0	27	0	0	0	0	0	0	76
Apprch %	0.0	45.5	54.5	0.0		31.3	68.8	0.0	0.0		66.7	11.1	22.2	0.0		0.0	0.0	0.0	0.0	0.0		
Total %	0.0	19.7	23.7	0.0	43.4	6.6	14.5	0.0	0.0	21.1	23.7	3.9	7.9	0.0	35.5	0.0	0.0	0.0	0.0	0.0		
Overall Peak Hour Volume	0	4	10	0	14	3	8	0	0	11	12	1	3	0	16	0	0	0	0	0	0	41



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 19
 Job Number: R006524.0426
 Date: 6/8/2016
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

All Vehicles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Balthaser St Northbound					N/A Southbound					Int. Total	
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total		
7:00 AM	0	97	2	0	99	3	91	0	0	94	11	0	3	0	14	0	0	0	0	0	0	207
7:15 AM	0	130	4	0	134	6	136	0	0	142	8	0	6	0	14	0	0	0	0	0	0	290
7:30 AM	0	105	3	0	108	11	169	0	0	180	12	0	10	0	22	0	0	0	0	0	0	310
7:45 AM	0	40	2	0	42	5	124	0	0	129	11	0	2	0	13	0	0	0	0	0	0	184
Total	0	372	11	0	383	25	520	0	0	545	42	0	21	0	63	0	0	0	0	0	0	991
8:00 AM	0	44	7	0	51	0	111	0	0	111	13	0	3	0	16	0	0	0	0	0	0	178
8:15 AM	0	60	4	0	64	0	88	0	0	88	7	0	1	0	8	0	0	0	0	0	0	160
Total	0	104	11	0	115	0	199	0	0	199	20	0	4	0	24	0	0	0	0	0	0	338
Grand Total	0	476	22	0	498	25	719	0	0	744	62	0	25	0	87	0	0	0	0	0	0	1329
Apprch %	0.0	95.6	4.4	0.0		3.4	96.6	0.0	0.0		71.3	0.0	28.7	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total %	0.0	35.8	1.7	0.0	37.5	1.9	54.1	0.0	0.0	56.0	4.7	0.0	1.9	0.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Balthaser St Northbound					N/A Southbound					Int. Total	
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total		
Peak Hour From	7:00 AM to 8:00 AM																					
Volume	0	372	11	0	383	25	520	0	0	545	42	0	21	0	63	0	0	0	0	0	0	991
Percent	0.0	97.1	2.9	0.0		4.6	95.4	0.0	0.0		66.7	0.0	33.3	0.0								
7:30 AM Volume Peak Factor	0	105	3	0	108	11	169	0	0	180	12	0	10	0	22	0	0	0	0	0	0	310
High Int. Volume PHF	0	130	4	0	134	11	169	0	0	180	12	0	10	0	22	0	0	0	0	0	0	0.80
Heavy Vehicles %	0%	3%	9%			0%	3%	0%			5%	0%	0%			0%	0%	0%				
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes			
	0		0	0		0		0	0		0		0	0		0		0	0			



AN EMPLOYEE-OWNED COMPANY

Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 19
 Job Number: R006524.0426
 Date: 6/8/2016
 Page No: 2

Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Balthaser St Northbound					N/A Southbound					Int. Total	
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total		
7:00 AM	0	8	0	0	8	0	4	0	0	4	1	0	0	0	1	0	0	0	0	0	0	13
7:15 AM	0	3	0	0	3	0	8	0	0	8	0	0	0	0	0	0	0	0	0	0	0	11
7:30 AM	0	1	1	0	2	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	0	4
7:45 AM	0	1	0	0	1	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	13	1	0	14	0	16	0	0	16	2	0	0	0	2	0	0	0	0	0	0	32
8:00 AM	0	1	0	0	1	0	8	0	0	8	1	0	1	0	2	0	0	0	0	0	0	11
8:15 AM	0	1	0	0	1	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3
Total	0	2	0	0	2	0	10	0	0	10	1	0	1	0	2	0	0	0	0	0	0	14
Grand Total	0	15	1	0	16	0	26	0	0	26	3	0	1	0	4	0	0	0	0	0	0	46
Apprch %	0.0	93.8	6.3	0.0		0.0	100.0	0.0	0.0		75.0	0.0	25.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total %	0.0	32.6	2.2	0.0	34.8	0.0	56.5	0.0	0.0	56.5	6.5	0.0	2.2	0.0	8.7	0.0	0.0	0.0	0.0	0.0	0.0	
Overall Peak Hour Volume	0	13	1	0	14	0	16	0	0	16	2	0	0	0	2	0	0	0	0	0	0	32



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 20
 Job Number: R006524.0426
 Date: 6/8/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

All Vehicles																					
Start Time	Route 0039 Eastbound					Route 0039 Westbound					Piketown Rd Northbound					Piketown Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
6:45 AM	2	34	22	0	58	12	29	0	0	41	8	3	6	0	17	1	15	28	0	44	160
Total	2	34	22	0	58	12	29	0	0	41	8	3	6	0	17	1	15	28	0	44	160
7:00 AM	4	41	50	0	95	15	39	1	0	55	25	4	10	0	39	3	12	16	0	31	220
7:15 AM	7	33	91	0	131	22	70	0	0	92	50	9	12	0	71	1	33	28	0	62	356
7:30 AM	6	54	75	1	136	18	82	1	0	101	69	8	22	0	99	1	21	13	0	35	371
7:45 AM	4	30	8	0	42	5	95	1	0	101	14	4	3	0	21	1	14	25	0	40	204
Total	21	158	224	1	404	60	286	3	0	349	158	25	47	0	230	6	80	82	0	168	1151
8:00 AM	5	39	8	0	52	2	67	1	0	70	17	6	4	0	27	2	7	15	0	24	173
Total	5	39	8	0	52	2	67	1	0	70	17	6	4	0	27	2	7	15	0	24	173
Grand Total	28	231	254	1	514	74	382	4	0	460	183	34	57	0	274	9	102	125	1	237	1485
Apprch %	5.4	44.9	49.4	0.2		16.1	83.0	0.9	0.0		66.8	12.4	20.8	0.0		3.8	43.0	52.7	0.4		
Total %	1.9	15.6	17.1	0.1	34.6	5.0	25.7	0.3	0.0	31.0	12.3	2.3	3.8	0.0	18.5	0.6	6.9	8.4	0.1	16.0	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Piketown Rd Northbound					Piketown Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	7:00 AM to 8:00 AM																				
Volume	21	158	224	1	404	60	286	3	0	349	158	25	47	0	230	6	80	82	1	169	1152
Percent	5.2	39.1	55.4	0.2		17.2	81.9	0.9	0.0		68.7	10.9	20.4	0.0		3.6	47.3	48.5	0.6		
7:30 AM																					
Volume	6	54	75	1	136	18	82	1	0	101	69	8	22	0	99	1	21	13	0	35	371
Factor																					
High Int.	7:30 AM					7:30 AM					7:30 AM					7:15 AM					
Volume	6	54	75	1	136	18	82	1	0	101	69	8	22	0	99	1	33	28	1	63	
PHF	0.75	0.73	0.62	0.25	0.74	0.68	0.75	0.75		0.86	0.57	0.69	0.53		0.58	0.50	0.61	0.73	0.25	0.67	0.78
Heavy Vehicles %	5%	1%	4%			2%	3%	0%			4%	24%	13%			0%	1%	5%			
Misc.	U-Turn		RTOR		Bikes	U-Turn		RTOR		Bikes	U-Turn		RTOR		Bikes	U-Turn		RTOR		Bikes	
	0		5		0	1		0		0	0		5		0	0		39		0	



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 20
 Job Number: R006524.0426
 Date: 6/8/2016
 Page No: 2

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Piketown Rd Northbound					Piketown Rd Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
6:45 AM	1	0	1	0	2	0	1	0	0	1	0	0	0	0	0	1	2	2	2	7	10
Total	1	0	1	0	2	0	1	0	0	1	0	0	0	0	0	1	2	2	2	7	10
7:00 AM	0	0	7	0	7	0	1	0	0	1	0	2	5	0	7	0	1	1	0	2	17
7:15 AM	1	0	1	0	2	0	2	0	0	2	6	0	1	0	7	0	0	1	0	1	12
7:30 AM	0	0	0	0	0	1	4	0	0	5	0	2	0	0	2	0	0	0	0	0	7
7:45 AM	0	2	0	0	2	0	1	0	0	1	0	2	0	0	2	0	0	2	0	2	7
Total	1	2	8	0	11	1	8	0	0	9	6	6	6	0	18	0	1	4	0	5	43
8:00 AM	1	3	0	0	4	0	2	0	0	2	2	0	0	0	2	1	0	1	0	2	10
Total	1	3	0	0	4	0	2	0	0	2	2	0	0	0	2	1	0	1	0	2	10
Grand Total	3	5	9	0	17	1	11	0	0	12	8	6	6	0	20	2	3	7	2	14	63
Apprch %	17.6	29.4	52.9	0.0		8.3	91.7	0.0	0.0		40.0	30.0	30.0	0.0		14.3	21.4	50.0	14.3		
Total %	4.8	7.9	14.3	0.0	27.0	1.6	17.5	0.0	0.0	19.0	12.7	9.5	9.5	0.0	31.7	3.2	4.8	11.1	3.2	22.2	
Overall Peak Hour Volume	1	2	8	0	11	1	8	0	0	9	6	6	6	0	18	0	1	4	0	5	43



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 20
 Job Number: R006524.0426
 Date: 6/8/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

U-Turn & RTOR

Start Time	Route 0039 Eastbound				Route 0039 Westbound				Piketown Rd Northbound				Piketown Rd Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
6:45 AM	0		2	2	0		0	0	0		3	3	0		11	11	16
Total	0		2	2	0		0	0	0		3	3	0		11	11	16
7:00 AM	0		4	4	0		0	0	0		1	1	0		10	10	15
7:15 AM	0		0	0	0		0	0	0		2	2	0		11	11	13
7:30 AM	0		1	1	1		0	1	0		2	2	0		9	9	13
7:45 AM	0		0	0	0		0	0	0		0	0	0		9	9	9
Total	0		5	5	1		0	1	0		5	5	0		39	39	50
8:00 AM	0		0	0	0		0	0	0		1	1	0		10	10	11
Total	0		0	0	0		0	0	0		1	1	0		10	10	11
Grand Total	0		7	7	0		0	0	0		9	9	0		60	60	76
Apprch %	0.0	0.0	100.0	0.0					0.0	0.0	100.0	0.0	0.0	0.0	100.0	0.0	
Total %	0.0		9.2	9.2	0.0		0.0	0.0	0.0		11.8	11.8	0.0		78.9	78.9	
Overall Peak Hour Volume	0		5	5	1		0	1	0		5	5	0		39	39	50



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 21
 Job Number: R006524.0426
 Date: 6/7/2016
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

All Vehicles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Manor Dr Northbound					N/A Southbound					Int. Total	
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total		
7:15 AM	0	47	4	0	51	1	58	0	0	59	9	0	13	0	22	0	0	0	0	0	0	132
7:30 AM	0	57	5	0	62	2	60	0	0	62	11	0	3	0	14	0	0	0	0	0	0	138
7:45 AM	0	44	4	0	48	2	60	0	0	62	5	0	7	0	12	0	0	0	0	0	0	122
Total	0	148	13	0	161	5	178	0	0	183	25	0	23	0	48	0	0	0	0	0	0	392
8:00 AM	0	34	1	0	35	2	48	0	0	50	4	0	2	0	6	0	0	0	0	0	0	91
8:15 AM	0	52	3	0	55	1	40	0	0	41	4	0	5	0	9	0	0	0	0	0	0	105
8:30 AM	0	31	4	0	35	2	43	0	0	45	3	0	6	0	9	0	0	0	0	0	0	89
Total	0	117	8	0	125	5	131	0	0	136	11	0	13	0	24	0	0	0	0	0	0	285
Grand Total	0	265	21	0	286	10	309	0	0	319	36	0	36	0	72	0	0	0	0	0	0	677
Apprch %	0.0	92.7	7.3	0.0		3.1	96.9	0.0	0.0		50.0	0.0	50.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total %	0.0	39.1	3.1	0.0	42.2	1.5	45.6	0.0	0.0	47.1	5.3	0.0	5.3	0.0	10.6	0.0	0.0	0.0	0.0	0.0	0.0	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Manor Dr Northbound					N/A Southbound					Int. Total	
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total		
Peak Hour From	7:15 AM to 8:15 AM																					
Volume	0	182	14	0	196	7	226	0	0	233	29	0	25	0	54	0	0	0	0	0	0	483
Percent	0.0	92.9	7.1	0.0		3.0	97.0	0.0	0.0		53.7	0.0	46.3	0.0								
7:30 AM																						
Volume	0	57	5	0	62	2	60	0	0	62	11	0	3	0	14	0	0	0	0	0	0	138
Peak Factor																						
High Int.	7:30 AM					7:30 AM					7:15 AM					7:15 AM						
Volume	0	57	5	0	62	2	60	0	0	62	9	0	13	0	22	0	0	0	0	0	0	0.88
PHF	0.80					0.70					0.88					0.94					0.66	
Heavy Vehicles %	0%	5%	0%			0%	3%	0%			0%	0%	0%			0%	0%	0%				
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes			
	0		0	0		0		0	0		0		0	0		0		0	0			



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 22
 Job Number: R006524.0426
 Date: 10/20/2016
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

All Vehicles

Start Time	Manor Dr Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:30 AM	0	0	17	0	17	0	0	0	0	0	19	80	0	0	99	0	109	1	0	110	226
7:45 AM	0	0	29	0	29	0	0	0	0	0	17	94	0	0	111	0	108	1	0	109	249
Total	0	0	46	0	46	0	0	0	0	0	36	174	0	0	210	0	217	2	0	219	475
8:00 AM	0	0	13	0	13	0	0	0	0	0	10	75	0	0	85	0	118	0	0	118	216
8:15 AM	1	0	9	0	10	0	0	0	0	0	20	92	0	0	112	0	94	0	0	94	216
8:30 AM	1	0	8	0	9	0	0	0	0	0	9	89	0	0	98	0	100	1	0	101	208
8:45 AM	1	0	17	0	18	0	0	0	0	0	7	74	0	0	81	0	112	0	0	112	211
Total	3	0	47	0	50	0	0	0	0	0	46	330	0	0	376	0	424	1	0	425	851
Grand Total	3	0	93	0	96	0	0	0	0	0	82	504	0	0	586	0	641	3	0	644	1326
Apprch %	3.1	0.0	96.9	0.0							14.0	86.0	0.0	0.0		0.0	99.5	0.5	0.0		
Total %	0.2	0.0	7.0	0.0	7.2	0.0	0.0	0.0	0.0	0.0	6.2	38.0	0.0	0.0	44.2	0.0	48.3	0.2	0.0	48.6	

Start Time	Manor Dr Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	7:30 AM to 8:30 AM																				
Volume	1	0	68	0	69	0	0	0	0	0	66	341	0	0	407	0	429	2	0	431	907
Percent	1.4	0.0	98.6	0.0							16.2	83.8	0.0	0.0		0.0	99.5	0.5	0.0		
7:45 AM																					
Volume	0	0	29	0	29	0	0	0	0	0	17	94	0	0	111	0	108	1	0	109	249
Peak Factor																					
High Int.	7:45 AM					7:30 AM					8:15 AM					8:00 AM					
Volume	0	0	29	0	29	0	0	0	0	0	20	92	0	0	112	0	118	0	0	118	
PHF	0.25		0.59		0.59						0.83	0.91			0.91	0.91	0.50			0.91	0.91
Heavy Vehicles %	0%	0%	1%			0%	0%	0%			2%	5%	0%			0%	3%	0%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



AN EMPLOYEE-OWNED COMPANY

Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 22
 Job Number: R006524.0426
 Date: 10/20/2016
 Page No: 2

Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Manor Dr Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
7:30 AM	0	0	1	0	1	0	0	0	0	0	0	4	0	0	4	0	1	0	0	1	6
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	5	0	0	5	8
Total	0	0	1	0	1	0	0	0	0	0	0	7	0	0	7	0	6	0	0	6	14
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	5	0	0	5	9
8:15 AM	0	0	0	0	0	0	0	0	0	0	1	5	0	0	6	0	3	0	0	3	9
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	0	5	0	0	5	11
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	3	0	0	3	6
Total	0	0	0	0	0	0	0	0	0	0	1	18	0	0	19	0	16	0	0	16	35
Grand Total	0	0	1	0	1	0	0	0	0	0	1	25	0	0	26	0	22	0	0	22	49
Apprch %	0.0	0.0	100.0	0.0							3.8	96.2	0.0	0.0		0.0	100.0	0.0	0.0		
Total %	0.0	0.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0	51.0	0.0	0.0	53.1	0.0	44.9	0.0	0.0	44.9	
Overall Peak Hour Volume	0	0	1	0	1	0	0	0	0	0	1	16	0	0	17	0	14	0	0	14	32



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 23
 Job Number: R006524.0426
 Date: 10/4/2016
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

All Vehicles

Start Time	Green Hill Rd (SR 2026) Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:30 AM	1	0	23	0	24	0	0	0	0	0	18	116	0	0	134	0	183	4	0	187	345
7:45 AM	0	0	22	0	22	0	0	0	0	0	18	131	0	0	149	0	182	3	0	185	356
Total	1	0	45	0	46	0	0	0	0	0	36	247	0	0	283	0	365	7	0	372	701
8:00 AM	5	0	11	0	16	0	0	0	0	0	10	87	0	0	97	0	144	2	0	146	259
8:15 AM	0	0	10	0	10	0	0	0	0	0	10	83	0	0	93	0	156	1	0	157	260
8:30 AM	1	0	16	0	17	0	0	0	0	0	7	71	0	0	78	0	167	1	0	168	263
8:45 AM	0	0	19	0	19	0	0	0	0	0	9	90	0	0	99	0	176	1	0	177	295
Total	6	0	56	0	62	0	0	0	0	0	36	331	0	0	367	0	643	5	0	648	1077
Grand Total	7	0	101	0	108	0	0	0	0	0	72	578	0	0	650	0	1008	12	0	1020	1778
Apprch %	6.5	0.0	93.5	0.0							11.1	88.9	0.0	0.0		0.0	98.8	1.2	0.0		
Total %	0.4	0.0	5.7	0.0	6.1	0.0	0.0	0.0	0.0	0.0	4.0	32.5	0.0	0.0	36.6	0.0	56.7	0.7	0.0	57.4	

Start Time	Green Hill Rd (SR 2026) Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total	
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total		
Peak Hour From	7:30 AM to 8:30 AM																					
Volume	6	0	66	0	72	0	0	0	0	0	56	417	0	0	473	0	665	10	0	675	1220	
Percent	8.3	0.0	91.7	0.0							11.8	88.2	0.0	0.0		0.0	98.5	1.5	0.0			
7:45 AM																						
Volume	0	0	22	0	22	0	0	0	0	0	18	131	0	0	149	0	182	3	0	185	356	
Peak Factor																						
High Int.	7:30 AM					7:30 AM					7:45 AM					7:30 AM						
Volume	1	0	23	0	24	0	0	0	0	0	18	131	0	0	149	0	183	4	0	187		
PHF	0.30		0.72		0.75						0.78	0.80			0.79		0.91	0.63		0.90	0.86	
Heavy Vehicles %	0%	0%	5%			0%	0%	0%			5%	6%	0%			0%	7%	0%				
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes			
	0		0	0		0		0	0		0		0	0		0		0	0			



AN EMPLOYEE-OWNED COMPANY

Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 23
 Job Number: R006524.0426
 Date: 10/4/2016
 Page No: 2

Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Green Hill Rd (SR 2026) Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	0	6	0	0	6	12
7:45 AM	0	0	2	0	2	0	0	0	0	0	0	4	0	0	4	0	11	0	0	11	17
Total	0	0	2	0	2	0	0	0	0	0	0	10	0	0	10	0	17	0	0	17	29
8:00 AM	0	0	0	0	0	0	0	0	0	0	1	6	0	0	7	0	15	0	0	15	22
8:15 AM	0	0	1	0	1	0	0	0	0	0	2	9	0	0	11	0	13	0	0	13	25
8:30 AM	1	0	1	0	2	0	0	0	0	0	1	4	0	0	5	0	15	0	0	15	22
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8	0	14	0	0	14	22
Total	1	0	2	0	3	0	0	0	0	0	4	27	0	0	31	0	57	0	0	57	91
Grand Total	1	0	4	0	5	0	0	0	0	0	4	37	0	0	41	0	74	0	0	74	120
Apprch %	20.0	0.0	80.0	0.0							9.8	90.2	0.0	0.0		0.0	100.0	0.0	0.0		
Total %	0.8	0.0	3.3	0.0	4.2	0.0	0.0	0.0	0.0	0.0	3.3	30.8	0.0	0.0	34.2	0.0	61.7	0.0	0.0	61.7	
Overall Peak Hour Volume	0	0	3	0	3	0	0	0	0	0	3	25	0	0	28	0	45	0	0	45	76



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 24
 Job Number: R006524.0426
 Date: 7/23/2014
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

All Vehicles

Start Time	Devonshire Heights Rd Eastbound					Devonshire Heights Rd Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:00 AM	0	0	4	0	4	9	1	4	0	14	1	74	4	0	79	1	97	0	0	98	195
7:15 AM	2	0	3	0	5	1	1	9	0	11	0	118	1	0	119	1	147	1	0	149	284
7:30 AM	0	0	6	0	6	7	0	1	0	8	1	117	2	0	120	2	157	0	0	159	293
7:45 AM	1	0	4	0	5	3	1	1	0	5	6	115	6	0	127	3	168	1	0	172	309
Total	3	0	17	0	20	20	3	15	0	38	8	424	13	0	445	7	569	2	0	578	1081
8:00 AM	0	2	10	0	12	5	1	2	0	8	0	98	2	0	100	1	122	3	0	126	246
8:15 AM	0	1	3	0	4	2	0	3	0	5	0	91	2	0	93	3	136	0	0	139	241
Total	0	3	13	0	16	7	1	5	0	13	0	189	4	0	193	4	258	3	0	265	487
Grand Total	3	3	30	0	36	27	4	20	0	51	8	613	17	0	638	11	827	5	0	843	1568
Apprch %	8.3	8.3	83.3	0.0		52.9	7.8	39.2	0.0		1.3	96.1	2.7	0.0		1.3	98.1	0.6	0.0		
Total %	0.2	0.2	1.9	0.0	2.3	1.7	0.3	1.3	0.0	3.3	0.5	39.1	1.1	0.0	40.7	0.7	52.7	0.3	0.0	53.8	

Start Time	Devonshire Heights Rd Eastbound					Devonshire Heights Rd Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	7:15 AM to 8:15 AM																				
Volume	3	2	23	0	28	16	3	13	0	32	7	448	11	0	466	7	594	5	0	606	1132
Percent	10.7	7.1	82.1	0.0		50.0	9.4	40.6	0.0		1.5	96.1	2.4	0.0		1.2	98.0	0.8	0.0		
7:45 AM																					
Volume	1	0	4	0	5	3	1	1	0	5	6	115	6	0	127	3	168	1	0	172	309
Peak Factor																					
High Int.	8:00 AM					7:00 AM					7:45 AM					7:45 AM					
Volume	0	2	10	0	12	9	1	4	0	14	6	115	6	0	127	3	168	1	0	172	
PHF	0.38	0.25	0.58		0.58	0.57	0.75	0.36		0.73	0.29	0.95	0.46		0.92	0.58	0.88	0.42		0.88	0.92
Heavy Vehicles %	33%	0%	4%			19%	0%	8%			14%	7%	9%			14%	10%	40%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



AN EMPLOYEE-OWNED COMPANY

Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 24
 Job Number: R006524.0426
 Date: 7/23/2014
 Page No: 2

Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Devonshire Heights Rd Eastbound					Devonshire Heights Rd Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
7:00 AM	0	0	0	0	0	3	0	0	0	3	0	7	0	0	7	0	8	0	0	8	18
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	11	0	0	11	0	25	0	0	25	36
7:30 AM	0	0	0	0	0	1	0	0	0	1	1	11	1	0	13	0	10	0	0	10	24
7:45 AM	1	0	0	0	1	0	0	0	0	0	0	4	0	0	4	0	9	0	0	9	14
Total	1	0	0	0	1	4	0	0	0	4	1	33	1	0	35	0	52	0	0	52	92
8:00 AM	0	0	1	0	1	2	0	1	0	3	0	7	0	0	7	1	18	2	0	21	32
8:15 AM	0	0	0	0	0	1	0	0	0	1	0	7	0	0	7	0	12	0	0	12	20
Total	0	0	1	0	1	3	0	1	0	4	0	14	0	0	14	1	30	2	0	33	52
Grand Total	1	0	1	0	2	7	0	1	0	8	1	47	1	0	49	1	82	2	0	85	144
Apprch %	50.0	0.0	50.0	0.0		87.5	0.0	12.5	0.0		2.0	95.9	2.0	0.0		1.2	96.5	2.4	0.0		
Total %	0.7	0.0	0.7	0.0	1.4	4.9	0.0	0.7	0.0	5.6	0.7	32.6	0.7	0.0	34.0	0.7	56.9	1.4	0.0	59.0	
Overall Peak Hour Volume	1	0	1	0	2	3	0	1	0	4	1	33	1	0	35	1	62	2	0	65	106



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 25
 Job Number: R006524.0426
 Date: 10/4/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

All Vehicles

Start Time	Red Top Rd (SR 2024) Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:30 AM	3	0	4	0	7	0	0	0	0	0	9	131	0	0	140	0	187	6	0	193	340
7:45 AM	7	0	4	0	11	0	0	0	0	0	6	130	0	0	136	0	210	6	0	216	363
Total	10	0	8	0	18	0	0	0	0	0	15	261	0	0	276	0	397	12	0	409	703
8:00 AM	10	0	8	0	18	0	0	0	0	0	7	97	0	0	104	0	147	9	0	156	278
8:15 AM	5	0	7	0	12	0	0	0	0	0	4	83	0	0	87	0	153	8	0	161	260
8:30 AM	4	0	16	0	20	0	0	0	0	0	3	73	0	0	76	0	168	4	0	172	268
8:45 AM	7	0	9	0	16	0	0	0	0	0	1	87	0	0	88	0	175	8	0	183	287
Total	26	0	40	0	66	0	0	0	0	0	15	340	0	0	355	0	643	29	0	672	1093
Grand Total	36	0	48	0	84	0	0	0	0	0	30	601	0	0	631	0	1040	41	0	1081	1796
Apprch %	42.9	0.0	57.1	0.0							4.8	95.2	0.0	0.0		0.0	96.2	3.8	0.0		
Total %	2.0	0.0	2.7	0.0	4.7	0.0	0.0	0.0	0.0	0.0	1.7	33.5	0.0	0.0	35.1	0.0	57.9	2.3	0.0	60.2	

Start Time	Red Top Rd (SR 2024) Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total	
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total		
Peak Hour From	7:30 AM to 8:30 AM																					
Volume	25	0	23	0	48	0	0	0	0	0	26	441	0	0	467	0	697	29	0	726	1241	
Percent	52.1	0.0	47.9	0.0							5.6	94.4	0.0	0.0		0.0	96.0	4.0	0.0			
7:45 AM																						
Volume	7	0	4	0	11	0	0	0	0	0	6	130	0	0	136	0	210	6	0	216	363	
Peak Factor																						
High Int.	8:30 AM					7:30 AM					7:30 AM					7:45 AM						
Volume	4	0	16	0	20	0	0	0	0	0	9	131	0	0	140	0	210	6	0	216		
PHF	0.63		0.72		0.67						0.72	0.84			0.83		0.83	0.81		0.84	0.85	
Heavy Vehicles %	8%	0%	4%			0%	0%	0%			4%	4%	0%			0%	7%	10%				
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes			
	0		0	0		0		0	0		0		0	0		0		0	0			



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 25
 Job Number: R006524.0426
 Date: 10/4/2016
 Page No: 2

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Red Top Rd (SR 2024) Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	7	0	0	7	11
7:45 AM	0	0	1	0	1	0	0	0	0	0	0	2	0	0	2	0	18	1	0	19	22
Total	0	0	1	0	1	0	0	0	0	0	0	6	0	0	6	0	25	1	0	26	33
8:00 AM	2	0	0	0	2	0	0	0	0	0	1	4	0	0	5	0	17	1	0	18	25
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	9	0	0	9	0	9	1	0	10	19
8:30 AM	1	0	1	0	2	0	0	0	0	0	0	3	0	0	3	0	16	0	0	16	21
8:45 AM	0	0	1	0	1	0	0	0	0	0	0	5	0	0	5	0	14	0	0	14	20
Total	3	0	2	0	5	0	0	0	0	0	1	21	0	0	22	0	56	2	0	58	85
Grand Total	3	0	3	0	6	0	0	0	0	0	1	27	0	0	28	0	81	3	0	84	118
Apprch %	50.0	0.0	50.0	0.0							3.6	96.4	0.0	0.0		0.0	96.4	3.6	0.0		
Total %	2.5	0.0	2.5	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.8	22.9	0.0	0.0	23.7	0.0	68.6	2.5	0.0	71.2	
Overall Peak Hour Volume	2	0	1	0	3	0	0	0	0	0	1	19	0	0	20	0	51	3	0	54	77



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 26
 Job Number: R006524.0426
 Date: 10/19/2017
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

All Vehicles

Start Time	Grandview Dr Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:00 AM	25	0	23	0	48	0	0	0	0	0	6	86	0	0	92	0	211	43	0	254	394
7:15 AM	29	0	27	0	56	0	0	0	0	0	5	83	0	0	88	0	175	29	0	204	348
7:30 AM	38	0	34	0	72	0	0	0	0	0	3	116	0	0	119	0	224	14	0	238	429
7:45 AM	21	0	28	0	49	0	0	0	0	0	16	78	0	0	94	0	158	20	0	178	321
Total	113	0	112	0	225	0	0	0	0	0	30	363	0	0	393	0	768	106	0	874	1492
8:00 AM	19	0	26	0	45	0	0	0	0	0	15	90	0	0	105	0	133	26	0	159	309
8:15 AM	14	0	22	0	36	0	0	0	0	0	12	67	0	0	79	0	135	18	0	153	268
Total	33	0	48	0	81	0	0	0	0	0	27	157	0	0	184	0	268	44	0	312	577
Grand Total	146	0	160	0	306	0	0	0	0	0	57	520	0	0	577	0	1036	150	0	1186	2069
Apprch %	47.7	0.0	52.3	0.0							9.9	90.1	0.0	0.0		0.0	87.4	12.6	0.0		
Total %	7.1	0.0	7.7	0.0	14.8	0.0	0.0	0.0	0.0	0.0	2.8	25.1	0.0	0.0	27.9	0.0	50.1	7.2	0.0	57.3	

Start Time	Grandview Dr Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	7:00 AM to 8:00 AM																				
Volume	113	0	112	0	225	0	0	0	0	0	30	363	0	0	393	0	768	106	0	874	1492
Percent	50.2	0.0	49.8	0.0							7.6	92.4	0.0	0.0		0.0	87.9	12.1	0.0		
7:30 AM																					
Volume	38	0	34	0	72	0	0	0	0	0	3	116	0	0	119	0	224	14	0	238	429
Peak Factor																					
High Int.	7:30 AM					7:00 AM					7:30 AM					7:00 AM					
Volume	38	0	34	0	72	0	0	0	0	0	3	116	0	0	119	0	211	43	0	254	0.87
PHF	0.74		0.82		0.78						0.47	0.78			0.83		0.86	0.62		0.86	
Heavy Vehicles %	0%	0%	0%			0%	0%	0%			3%	6%	0%			0%	5%	0%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



AN EMPLOYEE-OWNED COMPANY

Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 26
 Job Number: R006524.0426
 Date: 10/19/2017
 Page No: 2

Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Grandview Dr Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	16	0	0	16	19
7:15 AM	0	0	0	0	0	0	0	0	0	0	1	5	0	0	6	0	6	0	0	6	12
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	9	0	0	9	0	7	0	0	7	16
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	8	0	0	8	12
Total	0	0	0	0	0	0	0	0	0	0	1	21	0	0	22	0	37	0	0	37	59
8:00 AM	0	0	1	0	1	0	0	0	0	0	0	12	0	0	12	0	4	1	0	5	18
8:15 AM	0	0	0	0	0	0	0	0	0	0	1	5	0	0	6	0	4	2	0	6	12
Total	0	0	1	0	1	0	0	0	0	0	1	17	0	0	18	0	8	3	0	11	30
Grand Total	0	0	1	0	1	0	0	0	0	0	2	38	0	0	40	0	45	3	0	48	89
Apprch %	0.0	0.0	100.0	0.0							5.0	95.0	0.0	0.0		0.0	93.8	6.3	0.0		
Total %	0.0	0.0	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	2.2	42.7	0.0	0.0	44.9	0.0	50.6	3.4	0.0	53.9	
Overall Peak Hour Volume	0	0	0	0	0	0	0	0	0	0	1	21	0	0	22	0	37	0	0	37	59



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 27
 Job Number: R006524.0426
 Date: 10/19/2017
 Page No: 1

Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

All Vehicles

Start Time	North Hanover St Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:15 AM	16	0	4	0	20	0	0	0	0	0	2	73	0	0	75	0	170	33	0	203	298
7:30 AM	23	0	2	0	25	0	0	0	0	0	1	105	0	0	106	0	195	35	0	230	361
7:45 AM	8	0	0	0	8	0	0	0	0	0	0	105	0	0	105	0	209	37	0	246	359
Total	47	0	6	0	53	0	0	0	0	0	3	283	0	0	286	0	574	105	0	679	1018
8:00 AM	16	0	1	0	17	0	0	0	0	0	1	89	0	0	90	0	118	37	0	155	262
8:15 AM	15	0	0	0	15	0	0	0	0	0	0	75	0	0	75	0	147	26	0	173	263
8:30 AM	16	0	2	0	18	0	0	0	0	0	2	69	0	0	71	0	148	40	0	188	277
Total	47	0	3	0	50	0	0	0	0	0	3	233	0	0	236	0	413	103	0	516	802
Grand Total	94	0	9	0	103	0	0	0	0	0	6	516	0	0	522	0	987	208	0	1195	1820
Apprch %	91.3	0.0	8.7	0.0							1.1	98.9	0.0	0.0		0.0	82.6	17.4	0.0		
Total %	5.2	0.0	0.5	0.0	5.7	0.0	0.0	0.0	0.0	0.0	0.3	28.4	0.0	0.0	28.7	0.0	54.2	11.4	0.0	65.7	

Start Time	North Hanover St Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	7:15 AM to 8:15 AM																				
Volume	63	0	7	0	70	0	0	0	0	0	4	372	0	0	376	0	692	142	0	834	1280
Percent	90.0	0.0	10.0	0.0							1.1	98.9	0.0	0.0		0.0	83.0	17.0	0.0		
7:30 AM Volume	23	0	2	0	25	0	0	0	0	0	1	105	0	0	106	0	195	35	0	230	361
Peak Factor																					
High Int.	7:30 AM					7:15 AM					7:30 AM					7:45 AM					
Volume	23	0	2	0	25	0	0	0	0	0	1	105	0	0	106	0	209	37	0	246	
PHF	0.68		0.44		0.70						0.50	0.89			0.89		0.83	0.96		0.85	0.89
Heavy Vehicles %	11%	0%	0%			0%	0%	0%			0%	8%	0%			0%	4%	1%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



AN EMPLOYEE-OWNED COMPANY

Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 27
 Job Number: R006524.0426
 Date: 10/19/2017
 Page No: 2

Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	North Hanover St Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
7:15 AM	1	0	0	0	1	0	0	0	0	0	0	4	0	0	4	0	9	0	0	9	14
7:30 AM	5	0	0	0	5	0	0	0	0	0	0	7	0	0	7	0	7	1	0	8	20
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7	0	8	0	0	8	15
Total	6	0	0	0	6	0	0	0	0	0	0	18	0	0	18	0	24	1	0	25	49
8:00 AM	1	0	0	0	1	0	0	0	0	0	0	11	0	0	11	0	5	1	0	6	18
8:15 AM	3	0	0	0	3	0	0	0	0	0	0	6	0	0	6	0	5	0	0	5	14
8:30 AM	2	0	0	0	2	0	0	0	0	0	0	6	0	0	6	0	5	2	0	7	15
Total	6	0	0	0	6	0	0	0	0	0	0	23	0	0	23	0	15	3	0	18	47
Grand Total	12	0	0	0	12	0	0	0	0	0	0	41	0	0	41	0	39	4	0	43	96
Apprch %	100.0	0.0	0.0	0.0							0.0	100.0	0.0	0.0		0.0	90.7	9.3	0.0		
Total %	12.5	0.0	0.0	0.0	12.5	0.0	0.0	0.0	0.0	0.0	0.0	42.7	0.0	0.0	42.7	0.0	40.6	4.2	0.0	44.8	
Overall Peak Hour Volume	7	0	0	0	7	0	0	0	0	0	0	29	0	0	29	0	29	2	0	31	67



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 28
 Job Number: R006524.0426
 Date: 10/18/2017
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 AM PEAK HOUR

All Vehicles

Start Time	E Canal St Eastbound					E Canal St Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:15 AM	0	2	0	0	2	5	6	1	0	12	6	89	5	0	100	2	183	0	0	185	299
7:30 AM	1	0	4	0	5	2	6	0	0	8	3	99	5	0	107	2	174	0	0	176	296
7:45 AM	0	1	3	0	4	4	1	4	0	9	1	97	4	0	102	4	148	0	0	152	267
Total	1	3	7	0	11	11	13	5	0	29	10	285	14	0	309	8	505	0	0	513	862
8:00 AM	1	2	5	0	8	5	2	1	0	8	0	77	2	0	79	3	133	1	0	137	232
8:15 AM	0	1	0	0	1	3	0	4	0	7	6	65	1	0	72	1	166	0	0	167	247
8:30 AM	0	5	1	0	6	6	12	1	0	19	2	80	4	0	86	1	154	2	0	157	268
Total	1	8	6	0	15	14	14	6	0	34	8	222	7	0	237	5	453	3	0	461	747
Grand Total	2	11	13	0	26	25	27	11	0	63	18	507	21	0	546	13	958	3	0	974	1609
Apprch %	7.7	42.3	50.0	0.0		39.7	42.9	17.5	0.0		3.3	92.9	3.8	0.0		1.3	98.4	0.3	0.0		
Total %	0.1	0.7	0.8	0.0	1.6	1.6	1.7	0.7	0.0	3.9	1.1	31.5	1.3	0.0	33.9	0.8	59.5	0.2	0.0	60.5	

Start Time	E Canal St Eastbound					E Canal St Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	7:15 AM to 8:15 AM																				
Volume	2	5	12	0	19	16	15	6	0	37	10	362	16	0	388	11	638	1	0	650	1094
Percent	10.5	26.3	63.2	0.0		43.2	40.5	16.2	0.0		2.6	93.3	4.1	0.0		1.7	98.2	0.2	0.0		
7:15 AM																					
Volume	0	2	0	0	2	5	6	1	0	12	6	89	5	0	100	2	183	0	0	185	299
Peak Factor																					
High Int.	8:00 AM					8:30 AM					7:30 AM					7:15 AM					
Volume	1	2	5	0	8	6	12	1	0	19	3	99	5	0	107	2	183	0	0	185	
PHF	0.50	0.63	0.60		0.59	0.80	0.63	0.38		0.77	0.42	0.91	0.80		0.91	0.69	0.87	0.25		0.88	0.91
Heavy Vehicles %	0%	0%	0%			0%	0%	17%			10%	8%	25%			0%	4%	0%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



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Route 0039 Land Use and Traffic Study
AM PEAK HOUR

Herbert, Rowland & Grubic, Inc.
369 East Park Drive
Harrisburg, PA 17111
(717) 564-1121

Intersection #: 28
Job Number: R006524.0426
Date: 10/18/2017
Page No: 2

Heavy Vehicles & Bicycles

Start Time	E Canal St Eastbound					E Canal St Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
7:15 AM	0	0	0	0	0	0	0	0	0	0	1	5	2	0	8	0	6	0	0	6	14
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8	0	4	0	0	4	12
7:45 AM	0	0	0	0	0	0	0	1	0	1	0	7	1	0	8	0	9	0	0	9	18
Total	0	0	0	0	0	0	0	1	0	1	1	20	3	0	24	0	19	0	0	19	44
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	8	1	0	9	0	6	0	0	6	15
8:15 AM	0	0	0	0	0	0	0	1	0	1	0	3	0	0	3	0	3	0	0	3	7
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	4	1	0	5	0	7	1	0	8	13
Total	0	0	0	0	0	0	0	1	0	1	0	15	2	0	17	0	16	1	0	17	35
Grand Total	0	0	0	0	0	0	0	2	0	2	1	35	5	0	41	0	35	1	0	36	79
Apprch %						0.0	0.0	100.0	0.0		2.4	85.4	12.2	0.0		0.0	97.2	2.8	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	2.5	1.3	44.3	6.3	0.0	51.9	0.0	44.3	1.3	0.0	45.6	
Overall Peak Hour Volume	0	0	0	0	0	0	0	1	0	1	1	28	4	0	33	0	25	0	0	25	59



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 29
 Job Number: R006524.0426
 Date: 10/24/2017
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 39 / 743 Transportation and Land Use Study
 AM PEAK HOUR

All Vehicles

Start Time	Route 0022 Eastbound					Route 0022 Westbound					Route 0743 Northbound					Laudermilch Rd (SR 2025) Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:00 AM	5	47	3	0	55	50	114	33	0	197	26	69	22	0	117	14	66	16	0	96	465
7:15 AM	13	53	4	0	70	52	142	29	0	223	25	54	29	0	108	17	67	29	0	113	514
7:30 AM	16	53	1	0	70	37	140	18	0	195	35	80	33	0	148	13	53	18	0	84	497
7:45 AM	11	51	3	0	65	29	91	19	0	139	25	52	29	0	106	12	60	17	0	89	399
Total	45	204	11	0	260	168	487	99	0	754	111	255	113	0	479	56	246	80	0	382	1875
8:00 AM	18	37	9	0	64	22	95	19	0	136	22	52	17	0	91	5	50	18	0	73	364
8:15 AM	6	40	3	0	49	20	71	10	0	101	19	41	19	0	79	9	42	15	0	66	295
Total	24	77	12	0	113	42	166	29	0	237	41	93	36	0	170	14	92	33	0	139	659
Grand Total	69	281	23	0	373	210	653	128	0	991	152	348	149	0	649	70	338	113	0	521	2534
Apprch %	18.5	75.3	6.2	0.0		21.2	65.9	12.9	0.0		23.4	53.6	23.0	0.0		13.4	64.9	21.7	0.0		
Total %	2.7	11.1	0.9	0.0	14.7	8.3	25.8	5.1	0.0	39.1	6.0	13.7	5.9	0.0	25.6	2.8	13.3	4.5	0.0	20.6	

Start Time	Route 0022 Eastbound					Route 0022 Westbound					Route 0743 Northbound					Laudermilch Rd (SR 2025) Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	7:00 AM to 8:00 AM																				
Volume	45	204	11	0	260	168	487	99	0	754	111	255	113	0	479	56	246	80	0	382	1875
Percent	17.3	78.5	4.2	0.0		22.3	64.6	13.1	0.0		23.2	53.2	23.6	0.0		14.7	64.4	20.9	0.0		
7:15 AM																					
Volume	13	53	4	0	70	52	142	29	0	223	25	54	29	0	108	17	67	29	0	113	514
Peak Factor																					
High Int.	7:15 AM					7:15 AM					7:30 AM					7:15 AM					
Volume	13	53	4	0	70	52	142	29	0	223	35	80	33	0	148	17	67	29	0	113	
PHF	0.70	0.96	0.69		0.93	0.81	0.86	0.75		0.85	0.79	0.80	0.86		0.81	0.82	0.92	0.69		0.85	0.91
Heavy Vehicles %	9%	4%	18%			4%	4%	10%			3%	7%	5%			7%	9%	4%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



AN EMPLOYEE-OWNED COMPANY

Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #:
 Job Number: R006524.0426
 Date: 10/24/2017
 Page No: 2

Route 39 / 743 Transportation and Land Use Study
 AM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0022 Eastbound					Route 0022 Westbound					Route 0743 Northbound					Laudermilch Rd (SR 2025) Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
7:00 AM	2	4	0	0	6	2	2	4	0	8	1	1	1	0	3	3	7	1	0	11	28
7:15 AM	0	1	1	0	2	0	4	3	0	7	1	5	1	0	7	0	3	1	0	4	20
7:30 AM	2	2	0	0	4	2	8	1	0	11	1	9	0	0	10	1	7	0	0	8	33
7:45 AM	0	2	1	0	3	3	6	2	0	11	0	4	4	0	8	0	4	1	0	5	27
Total	4	9	2	0	15	7	20	10	0	37	3	19	6	0	28	4	21	3	0	28	108
8:00 AM	0	6	0	0	6	2	3	0	0	5	0	6	1	0	7	1	6	0	0	7	25
8:15 AM	2	6	1	0	9	0	6	0	0	6	0	10	2	0	12	0	6	2	0	8	35
Total	2	12	1	0	15	2	9	0	0	11	0	16	3	0	19	1	12	2	0	15	60
Grand Total	6	21	3	0	30	9	29	10	0	48	3	35	9	0	47	5	33	5	0	43	168
Apprch %	20.0	70.0	10.0	0.0		18.8	60.4	20.8	0.0		6.4	74.5	19.1	0.0		11.6	76.7	11.6	0.0		
Total %	3.6	12.5	1.8	0.0	17.9	5.4	17.3	6.0	0.0	28.6	1.8	20.8	5.4	0.0	28.0	3.0	19.6	3.0	0.0	25.6	
Overall Peak Hour Volume	4	9	2	0	15	7	20	10	0	37	3	19	6	0	28	4	21	3	0	28	108



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 30
 Job Number: R006524.0426
 Date: 10/25/2017
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 39 / 743 Transportation and Land Use Study
 AM PEAK HOUR

All Vehicles

Start Time	Jonestown Rd Eastbound					Jonestown Rd Westbound					Laudermilch Rd (SR 2025) Northbound					Bow Creek Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:00 AM	4	0	2	0	6	0	2	5	0	7	3	100	1	0	104	6	91	1	0	98	215
7:15 AM	2	3	4	0	9	1	5	9	0	15	3	111	1	0	115	7	75	3	0	85	224
7:30 AM	1	5	2	0	8	1	4	5	0	10	1	112	3	0	116	11	91	0	0	102	236
7:45 AM	0	2	3	0	5	1	5	8	0	14	4	91	0	0	95	3	77	2	0	82	196
Total	7	10	11	0	28	3	16	27	0	46	11	414	5	0	430	27	334	6	0	367	871
8:00 AM	0	3	4	0	7	1	6	6	0	13	3	94	0	0	97	2	71	4	0	77	194
8:15 AM	3	2	2	0	7	1	0	8	0	9	7	84	1	0	92	4	74	2	0	80	188
Total	3	5	6	0	14	2	6	14	0	22	10	178	1	0	189	6	145	6	0	157	382
Grand Total	10	15	17	0	42	5	22	41	0	68	21	592	6	0	619	33	479	12	0	524	1253
Apprch %	23.8	35.7	40.5	0.0		7.4	32.4	60.3	0.0		3.4	95.6	1.0	0.0		6.3	91.4	2.3	0.0		
Total %	0.8	1.2	1.4	0.0	3.4	0.4	1.8	3.3	0.0	5.4	1.7	47.2	0.5	0.0	49.4	2.6	38.2	1.0	0.0	41.8	

Start Time	Jonestown Rd Eastbound					Jonestown Rd Westbound					Laudermilch Rd (SR 2025) Northbound					Bow Creek Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	7:00 AM to 8:00 AM																				
Volume	7	10	11	0	28	3	16	27	0	46	11	414	5	0	430	27	334	6	0	367	871
Percent	25.0	35.7	39.3	0.0		6.5	34.8	58.7	0.0		2.6	96.3	1.2	0.0		7.4	91.0	1.6	0.0		
7:30 AM Volume Peak Factor	1	5	2	0	8	1	4	5	0	10	1	112	3	0	116	11	91	0	0	102	236
High Int. Volume	7:15 AM					7:15 AM					7:30 AM					7:30 AM					
PHF	0.44	0.50	0.69	0	0.78	0.75	0.80	0.75	0	0.77	0.69	0.92	0.42	0	0.93	0.61	0.92	0.50	0	0.90	0.92
Heavy Vehicles %	0%	10%	0%			33%	6%	26%			9%	6%	20%			4%	9%	0%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



AN EMPLOYEE-OWNED COMPANY

Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 30
 Job Number: R006524.0426
 Date: 10/25/2017
 Page No: 2

Route 39 / 743 Transportation and Land Use Study
 AM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Jonestown Rd Eastbound					Jonestown Rd Westbound					Laudermilch Rd (SR 2025) Northbound					Bow Creek Rd Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	0	6	0	0	6	12
7:15 AM	0	1	0	0	1	0	0	2	0	2	0	7	0	0	7	0	5	0	0	5	15
7:30 AM	0	0	0	0	0	1	0	2	0	3	0	4	1	0	5	0	11	0	0	11	19
7:45 AM	0	0	0	0	0	0	1	3	0	4	1	6	0	0	7	1	7	0	0	8	19
Total	0	1	0	0	1	1	1	7	0	9	1	23	1	0	25	1	29	0	0	30	65
8:00 AM	0	0	1	0	1	1	0	0	0	1	0	8	0	0	8	1	5	2	0	8	18
8:15 AM	0	0	1	0	1	0	0	1	0	1	2	5	1	0	8	2	10	0	0	12	22
Total	0	0	2	0	2	1	0	1	0	2	2	13	1	0	16	3	15	2	0	20	40
Grand Total	0	1	2	0	3	2	1	8	0	11	3	36	2	0	41	4	44	2	0	50	105
Apprch %	0.0	33.3	66.7	0.0		18.2	9.1	72.7	0.0		7.3	87.8	4.9	0.0		8.0	88.0	4.0	0.0		
Total %	0.0	1.0	1.9	0.0	2.9	1.9	1.0	7.6	0.0	10.5	2.9	34.3	1.9	0.0	39.0	3.8	41.9	1.9	0.0	47.6	
Overall Peak Hour Volume	0	1	0	0	1	1	1	7	0	9	1	23	1	0	25	1	29	0	0	30	65



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 31
 Job Number: R006524.0426
 Date: 10/26/2017
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 39 / 743 Transportation and Land Use Study
 AM PEAK HOUR

All Vehicles

Start Time	I-81 NB Off Ramp Eastbound					I-81 NB On Ramp Westbound					Bow Creek Rd Northbound					Bow Creek Rd Southbound					Int. Total	
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total		
7:00 AM	9	0	10	0	19	0	0	0	0	0	0	103	21	0	124	4	76	0	0	80	223	
7:15 AM	19	1	29	0	49	0	0	0	0	0	0	124	33	0	157	9	75	0	0	84	290	
7:30 AM	31	0	21	0	52	0	0	0	0	0	0	87	31	0	118	10	77	0	0	87	257	
7:45 AM	30	0	27	0	57	0	0	0	0	0	0	103	34	0	137	4	57	0	0	61	255	
Total	89	1	87	0	177	0	0	0	0	0	0	417	119	0	536	27	285	0	0	312	1025	
8:00 AM	22	0	22	0	44	0	0	0	0	0	0	56	31	0	87	3	54	0	0	57	188	
8:15 AM	15	0	16	0	31	0	0	0	0	0	0	80	21	0	101	11	61	0	0	72	204	
Total	37	0	38	0	75	0	0	0	0	0	0	136	52	0	188	14	115	0	0	129	392	
Grand Total	126	1	125	0	252	0	0	0	0	0	0	553	171	0	724	41	400	0	0	441	1417	
Apprch %	50.0	0.4	49.6	0.0								0.0	76.4	23.6	0.0							
Total %	8.9	0.1	8.8	0.0	17.8	0.0	0.0	0.0	0.0	0.0	0.0	39.0	12.1	0.0	51.1	2.9	28.2	0.0	0.0	31.1		

Start Time	I-81 NB Off Ramp Eastbound					I-81 NB On Ramp Westbound					Bow Creek Rd Northbound					Bow Creek Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	7:00 AM to 8:00 AM																				
Volume	89	1	87	0	177	0	0	0	0	0	0	417	119	0	536	27	285	0	0	312	1025
Percent	50.3	0.6	49.2	0.0								0.0	77.8	22.2	0.0						
7:15 AM Volume	19	1	29	0	49	0	0	0	0	0	0	124	33	0	157	9	75	0	0	84	290
Peak Factor																					
High Int. Volume	30	0	27	0	57	0	0	0	0	0	0	124	33	0	157	10	77	0	0	87	0.88
PHF	0.72	0.25	0.75		0.78							0.84	0.88		0.85	0.68	0.93			0.90	
Heavy Vehicles %	2%	100%	7%			0%	0%	0%			0%	5%	22%			15%	9%	0%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 31
 Job Number: R006524.0426
 Date: 10/26/2017
 Page No: 2

AN EMPLOYEE-OWNED COMPANY
 Route 39 / 743 Transportation and Land Use Study
 AM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	I-81 NB Off Ramp Eastbound					I-81 NB On Ramp Westbound					Bow Creek Rd Northbound					Bow Creek Rd Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
7:00 AM	0	0	1	0	1	0	0	0	0	0	0	3	6	0	9	1	9	0	0	10	20
7:15 AM	1	1	0	0	2	0	0	0	0	0	0	7	10	0	17	0	6	0	0	6	25
7:30 AM	0	0	2	0	2	0	0	0	0	0	0	5	7	0	12	2	1	0	0	3	17
7:45 AM	1	0	3	0	4	0	0	0	0	0	0	4	3	0	7	1	11	0	0	12	23
Total	2	1	6	0	9	0	0	0	0	0	0	19	26	0	45	4	27	0	0	31	85
8:00 AM	1	0	6	0	7	0	0	0	0	0	0	4	6	0	10	0	7	0	0	7	24
8:15 AM	0	0	5	0	5	0	0	0	0	0	0	5	3	0	8	1	13	0	0	14	27
Total	1	0	11	0	12	0	0	0	0	0	0	9	9	0	18	1	20	0	0	21	51
Grand Total	3	1	17	0	21	0	0	0	0	0	0	28	35	0	63	5	47	0	0	52	136
Apprch %	14.3	4.8	81.0	0.0							0.0	44.4	55.6	0.0		9.6	90.4	0.0	0.0		
Total %	2.2	0.7	12.5	0.0	15.4	0.0	0.0	0.0	0.0	0.0	0.0	20.6	25.7	0.0	46.3	3.7	34.6	0.0	0.0	38.2	
Overall Peak Hour Volume	2	1	6	0	9	0	0	0	0	0	0	19	26	0	45	4	27	0	0	31	85



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 32
 Job Number: R006524.0426
 Date: 10/26/2017
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 39 / 743 Transportation and Land Use Study
 AM PEAK HOUR

All Vehicles

Start Time	I-81 SB On Ramp Eastbound					I-81 SB Off Ramp Westbound					Bow Creek Rd Northbound					Bow Creek Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
7:00 AM	0	0	0	0	0	24	0	2	0	26	42	22	0	0	64	0	18	15	0	33	123
7:15 AM	0	0	0	0	0	49	1	7	0	57	97	38	0	0	135	0	41	29	0	70	262
7:30 AM	0	0	0	0	0	42	3	12	0	57	71	56	0	0	127	0	45	24	0	69	253
7:45 AM	0	0	0	0	0	39	0	16	0	55	49	87	0	0	136	0	26	28	0	54	245
Total	0	0	0	0	0	154	4	37	0	195	259	203	0	0	462	0	130	96	0	226	883
8:00 AM	0	0	0	0	0	36	1	12	0	49	33	56	0	0	89	0	27	16	0	43	181
8:15 AM	0	0	0	0	0	34	3	19	2	58	44	45	0	0	89	0	36	23	0	59	206
Total	0	0	0	0	0	70	4	31	2	107	77	101	0	0	178	0	63	39	0	102	387
Grand Total	0	0	0	0	0	224	8	68	2	302	336	304	0	0	640	0	193	135	0	328	1270
Apprch %						74.2	2.6	22.5	0.7		52.5	47.5	0.0	0.0		0.0	58.8	41.2	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	17.6	0.6	5.4	0.2	23.8	26.5	23.9	0.0	0.0	50.4	0.0	15.2	10.6	0.0	25.8	

Start Time	I-81 SB On Ramp Eastbound					I-81 SB Off Ramp Westbound					Bow Creek Rd Northbound					Bow Creek Rd Southbound					Int. Total		
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total			
Peak Hour From	7:15 AM to 8:15 AM																						
Volume	0	0	0	0	0	166	5	47	0	218	250	237	0	0	487	0	139	97	0	236	941		
Percent						76.1	2.3	21.6	0.0		51.3	48.7	0.0	0.0		0.0	58.9	41.1	0.0				
7:15 AM																							
Volume	0	0	0	0	0	49	1	7	0	57	97	38	0	0	135	0	41	29	0	70	262		
Peak Factor																							
High Int.	7:00 AM	8:15 AM										7:45 AM	7:15 AM										
Volume	0	0	0	0	0	34	3	19	2	58	49	87	0	0	136	0	41	29	0	70	0.90		
PHF						0.85	0.42	0.73		0.96	0.64	0.68			0.90		0.77	0.84					
Heavy Vehicles %	0%	0%	0%			9%	60%	13%			6%	6%	0%			0%	12%	7%					
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes				
	0		0	0		0		0	0		0		0	0		0		0	0				



AN EMPLOYEE-OWNED COMPANY

Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 32
 Job Number: R006524.0426
 Date: 10/26/2017
 Page No: 2

Route 39 / 743 Transportation and Land Use Study
 AM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	I-81 SB On Ramp Eastbound					I-81 SB Off Ramp Westbound					Bow Creek Rd Northbound					Bow Creek Rd Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
7:15 AM	0	0	0	0	0	5	1	2	0	8	4	3	0	0	7	0	3	0	0	0	3
7:30 AM	0	0	0	0	0	3	2	1	0	6	5	1	0	0	6	0	6	3	0	0	9
7:45 AM	0	0	0	0	0	2	0	3	0	5	3	5	0	0	8	0	4	4	0	0	8
Total	0	0	0	0	0	10	3	6	0	19	12	9	0	0	21	0	14	7	0	0	21
8:00 AM	0	0	0	0	0	5	0	0	0	5	2	5	0	0	7	0	4	0	0	0	4
8:15 AM	0	0	0	0	0	9	1	2	0	12	3	1	0	0	4	0	4	0	0	0	4
Total	0	0	0	0	0	14	1	2	0	17	5	6	0	0	11	0	8	0	0	0	8
Grand Total	0	0	0	0	0	24	4	8	0	36	17	15	0	0	32	0	22	7	0	0	29
Apprch %						66.7	11.1	22.2	0.0		53.1	46.9	0.0	0.0		0.0	75.9	24.1	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	24.7	4.1	8.2	0.0	37.1	17.5	15.5	0.0	0.0	33.0	0.0	22.7	7.2	0.0	29.9	
Overall Peak Hour Volume	0	0	0	0	0	15	3	6	0	24	14	14	0	0	28	0	17	7	0	0	24



Herbert, Rowland & Grubic, Inc.
369 East Park Drive
Harrisburg, PA 17111
(717) 564-1121

Intersection #: 33
Job Number: R006524.0426
Date: 10/17/2017
Page No: 1

AN EMPLOYEE-OWNED COMPANY
Route 39 / 743 Transportation and Land Use Study
AM PEAK HOUR

All Vehicles

Start Time	Mountain Rd (SR 0443) Eastbound					Mountain Rd (SR 0443) Westbound					Bow Creek Rd Northbound					N/A Southbound					Int. Total	
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total		
7:00 AM	0	1	5	0	6	8	6	0	0	14	7	0	10	0	17	0	0	0	0	0	0	37
7:15 AM	0	11	8	0	19	7	9	0	0	16	10	0	11	0	21	0	0	0	0	0	0	56
7:30 AM	0	9	1	0	10	11	7	0	0	18	10	0	16	0	26	0	0	0	0	0	0	54
7:45 AM	0	6	5	0	11	13	1	0	0	14	12	0	8	0	20	0	0	0	0	0	0	45
Total	0	27	19	0	46	39	23	0	0	62	39	0	45	0	84	0	0	0	0	0	0	192
8:00 AM	0	7	7	0	14	7	2	0	0	9	3	0	10	0	13	0	0	0	0	0	0	36
8:15 AM	0	4	4	0	8	5	4	0	0	9	4	0	8	0	12	0	0	0	0	0	0	29
Total	0	11	11	0	22	12	6	0	0	18	7	0	18	0	25	0	0	0	0	0	0	65
Grand Total	0	38	30	0	68	51	29	0	0	80	46	0	63	0	109	0	0	0	0	0	0	257
Apprch %	0.0	55.9	44.1	0.0		63.8	36.3	0.0	0.0		42.2	0.0	57.8	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total %	0.0	14.8	11.7	0.0	26.5	19.8	11.3	0.0	0.0	31.1	17.9	0.0	24.5	0.0	42.4	0.0	0.0	0.0	0.0	0.0	0.0	

Start Time	Mountain Rd (SR 0443) Eastbound					Mountain Rd (SR 0443) Westbound					Bow Creek Rd Northbound					N/A Southbound					Int. Total	
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total		
Peak Hour From	7:00 AM to 8:00 AM																					
Volume	0	27	19	0	46	39	23	0	0	62	39	0	45	0	84	0	0	0	0	0	0	192
Percent	0.0	58.7	41.3	0.0		62.9	37.1	0.0	0.0		46.4	0.0	53.6	0.0								
7:15 AM																						
Volume	0	11	8	0	19	7	9	0	0	16	10	0	11	0	21	0	0	0	0	0	0	56
Peak Factor																						
High Int.	7:15 AM					7:30 AM					7:30 AM					7:00 AM						
Volume	0	11	8	0	19	11	7	0	0	18	10	0	16	0	26	0	0	0	0	0	0	0
PHF	0.61					0.75					0.86					0.81					0.86	
Heavy Vehicles %	0%	4%	0%			23%	0%	0%			15%	0%	13%			0%	0%	0%				
Misc.	U-Turn		RTOR		Bikes	U-Turn		RTOR		Bikes	U-Turn		RTOR		Bikes	U-Turn		RTOR		Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0			



AN EMPLOYEE-OWNED COMPANY

Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 33
 Job Number: R006524.0426
 Date: 10/17/2017
 Page No: 2

Route 39 / 743 Transportation and Land Use Study
 AM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Mountain Rd (SR 0443) Eastbound					Mountain Rd (SR 0443) Westbound					Bow Creek Rd Northbound					N/A Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
7:00 AM	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
7:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	2	0	3	0	0	0	0	0	3
7:30 AM	0	1	0	0	1	5	0	0	0	5	1	0	3	0	4	0	0	0	0	0	10
7:45 AM	0	0	0	0	0	2	0	0	0	2	4	0	1	0	5	0	0	0	0	0	7
Total	0	1	0	0	1	9	0	0	0	9	6	0	6	0	12	0	0	0	0	0	22
8:00 AM	0	2	0	0	2	1	0	0	0	1	0	0	1	0	1	0	0	0	0	0	4
8:15 AM	0	0	0	0	0	0	2	0	0	2	1	0	1	0	2	0	0	0	0	0	4
Total	0	2	0	0	2	1	2	0	0	3	1	0	2	0	3	0	0	0	0	0	8
Grand Total	0	3	0	0	3	10	2	0	0	12	7	0	8	0	15	0	0	0	0	0	30
Apprch %	0.0	100.0	0.0	0.0		83.3	16.7	0.0	0.0		46.7	0.0	53.3	0.0							
Total %	0.0	10.0	0.0	0.0	10.0	33.3	6.7	0.0	0.0	40.0	23.3	0.0	26.7	0.0	50.0	0.0	0.0	0.0	0.0	0.0	
Overall Peak Hour Volume	0	1	0	0	1	9	0	0	0	9	6	0	6	0	12	0	0	0	0	0	22



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 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 1
 Job Number: R006524.0426
 Date: 10/25/2016
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

All Vehicles

Start Time	N/A Eastbound					Route 0039 Westbound					Front St (SR3009) Northbound					Front St (SR3009) Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	0	0	0	0	0	107	0	14	0	121	0	212	129	0	341	24	52	0	0	76	538
4:45 PM	0	0	0	0	0	128	0	10	0	138	0	237	118	0	355	25	93	0	0	118	611
Total	0	0	0	0	0	235	0	24	0	259	0	449	247	0	696	49	145	0	0	194	1149
5:00 PM	0	0	0	0	0	124	0	17	0	141	0	202	107	0	309	29	83	0	0	112	562
5:15 PM	0	0	0	0	0	138	0	14	0	152	0	190	108	0	298	38	80	0	0	118	568
5:30 PM	0	0	0	0	0	124	0	18	0	142	0	186	127	0	313	31	58	0	0	89	544
5:45 PM	0	0	0	0	0	97	0	17	0	114	0	112	103	0	215	16	68	0	0	84	413
Total	0	0	0	0	0	483	0	66	0	549	0	690	445	0	1135	114	289	0	0	403	2087
Grand Total	0	0	0	0	0	718	0	90	0	808	0	1139	692	0	1831	163	434	0	0	597	3236
Apprch %						88.9	0.0	11.1	0.0		0.0	62.2	37.8	0.0		27.3	72.7	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	22.2	0.0	2.8	0.0	25.0	0.0	35.2	21.4	0.0	56.6	5.0	13.4	0.0	0.0	18.4	

Start Time	N/A Eastbound					Route 0039 Westbound					Front St (SR3009) Northbound					Front St (SR3009) Southbound					Int. Total				
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total					
Peak Hour From	4:45 PM to 5:45 PM																								
Volume	0	0	0	0	0	514	0	59	0	573	0	815	460	0	1275	123	314	0	0	437	2285				
Percent						89.7	0.0	10.3	0.0		0.0	63.9	36.1	0.0		28.1	71.9	0.0	0.0						
4:45 PM																									
Volume	0	0	0	0	0	128	0	10	0	138	0	237	118	0	355	25	93	0	0	118	611				
Peak Factor																									
High Int.	4:30 PM					5:15 PM					4:45 PM					4:45 PM									
Volume	0	0	0	0	0	138	0	14	0	152	0	237	118	0	355	25	93	0	0	118					
PHF						0.93	0.82			0.94	0.86			0.91	0.90	0.81	0.84				0.93	0.93			
Heavy Vehicles %	0%	0%	0%			1%	0%	2%			0%	1%	1%			0%	1%	0%							
Misc.	U-Turn	RTOR		Bikes		U-Turn	RTOR		Bikes		U-Turn	RTOR		Bikes		U-Turn	RTOR		Bikes						
	0	0		0		0	2		0		0	67		0		0	0		0						



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Route 0039 Land Use and Traffic Study
PM PEAK HOUR

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Harrisburg, PA 17111
(717) 564-1121

Intersection #: 1
Job Number: R006524.0426
Date: 10/25/2016
Page No: 2

Heavy Vehicles & Bicycles

Start Time	N/A Eastbound					Route 0039 Westbound					Front St (SR3009) Northbound					Front St (SR3009) Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
4:30 PM	0	0	0	0	0	1	0	0	0	1	0	2	2	0	4	1	0	0	0	1	6
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	2
Total	0	0	0	0	0	1	0	0	0	1	0	3	3	0	6	1	0	0	0	1	8
5:00 PM	0	0	0	0	0	1	0	0	0	1	0	3	1	0	4	0	0	0	0	0	5
5:15 PM	0	0	0	0	0	1	0	0	0	1	0	4	1	0	5	0	1	0	0	1	7
5:30 PM	0	0	0	0	0	1	0	1	0	2	0	0	3	0	3	0	1	0	0	1	6
5:45 PM	0	0	0	0	0	1	0	0	0	1	0	0	3	0	3	0	0	0	0	0	4
Total	0	0	0	0	0	4	0	1	0	5	0	7	8	0	15	0	2	0	0	2	22
Grand Total	0	0	0	0	0	5	0	1	0	6	0	10	11	0	21	1	2	0	0	3	30
Apprch %						83.3	0.0	16.7	0.0		0.0	47.6	52.4	0.0		33.3	66.7	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	16.7	0.0	3.3	0.0	20.0	0.0	33.3	36.7	0.0	70.0	3.3	6.7	0.0	0.0	10.0	
Overall Peak Hour Volume	0	0	0	0	0	3	0	1	0	4	0	8	6	0	14	0	2	0	0	2	20



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 1
 Job Number: R006524.0426
 Date: 10/25/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

U-Turn & RTOR

Start Time	N/A Eastbound				Route 0039 Westbound				Front St (SR3009) Northbound				Front St (SR3009) Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
4:30 PM	0		0	0	0		3	3	0		10	10	0		0	0	13
4:45 PM	0		0	0	0		0	0	0		13	13	0		0	0	13
Total	0		0	0	0		3	3	0		23	23	0		0	0	26
5:00 PM	0		0	0	0		0	0	0		26	26	0		0	0	26
5:15 PM	0		0	0	0		1	1	0		8	8	0		0	0	9
5:30 PM	0		0	0	0		1	1	0		20	20	0		0	0	21
5:45 PM	0		0	0	0		1	1	0		21	21	0		0	0	22
Total	0		0	0	0		3	3	0		75	75	0		0	0	78
Grand Total	0		0	0	0		0	0	0		98	98	0		0	0	98
Apprch %									0.0	0.0	100.0	0.0					
Total %	0.0		0.0	0.0	0.0		0.0	0.0	0.0		100.0	100.0	0.0		0.0	0.0	
Overall Peak Hour Volume	0		0	0	0		2	2	0		67	67	0		0	0	69



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 2
 Job Number: R006524.0426
 Date: 10/25/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Start Time	Route 0039 Eastbound					Route 0039 Westbound					6th St Northbound					6th St Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	1	179	12	0	192	35	118	0	0	153	4	0	91	0	95	1	1	2	0	4	444
4:45 PM	2	161	12	0	175	51	145	3	0	199	3	0	104	0	107	1	0	2	0	3	484
Total	3	340	24	0	367	86	263	3	0	352	7	0	195	0	202	2	1	4	0	7	928
5:00 PM	1	185	10	0	196	37	150	2	0	189	5	1	94	2	102	0	0	1	0	1	488
5:15 PM	0	158	3	0	161	37	155	1	0	193	4	0	91	0	95	2	2	0	0	4	453
5:30 PM	0	167	5	1	173	38	137	2	0	177	2	0	86	0	88	2	0	0	0	2	440
5:45 PM	0	117	8	0	125	36	99	0	0	135	3	0	53	0	56	1	0	0	0	1	317
Total	1	627	26	1	655	148	541	5	0	694	14	1	324	2	341	5	2	1	0	8	1698
Grand Total	4	967	50	1	1022	234	804	8	0	1046	21	1	519	2	543	7	3	5	0	15	2626
Apprch %	0.4	94.6	4.9	0.1		22.4	76.9	0.8	0.0		3.9	0.2	95.6	0.4		46.7	20.0	33.3	0.0		
Total %	0.2	36.8	1.9	0.0	38.9	8.9	30.6	0.3	0.0	39.8	0.8	0.0	19.8	0.1	20.7	0.3	0.1	0.2	0.0	0.6	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					6th St Northbound					6th St Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	4:30 PM to 5:30 PM																				
Volume	4	683	37	0	724	160	568	6	0	734	16	1	380	2	399	4	3	5	0	12	1869
Percent	0.6	94.3	5.1	0.0		21.8	77.4	0.8	0.0		4.0	0.3	95.2	0.5		33.3	25.0	41.7	0.0		
5:00 PM																					
Volume	1	185	10	0	196	37	150	2	0	189	5	1	94	2	102	0	0	1	0	1	488
Peak Factor																					
High Int.	5:00 PM					4:45 PM					4:45 PM					4:30 PM					
Volume	1	185	10	0	196	51	145	3	0	199	3	0	104	0	107	1	1	2	0	4	
PHF	0.50	0.92	0.77		0.92	0.78	0.92	0.50		0.92	0.80	0.25	0.91	0.25	0.93	0.50	0.38	0.63		0.75	0.96
Heavy Vehicles %	25%	1%	5%			3%	1%	0%			6%	0%	1%			0%	0%	0%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



AN EMPLOYEE-OWNED COMPANY

Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 2
 Job Number: R006524.0426
 Date: 10/25/2016
 Page No: 2

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					6th St Northbound					6th St Southbound					Int. Total	
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total		
4:30 PM	0	4	1	0	5	0	1	0	0	1	1	0	2	0	3	0	0	0	0	0	0	9
4:45 PM	0	1	1	0	2	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	5	2	0	7	2	1	0	0	3	1	0	2	0	3	0	0	0	0	0	0	13
5:00 PM	1	1	0	0	2	2	0	0	0	2	0	0	1	0	1	0	0	0	0	0	0	5
5:15 PM	0	2	0	0	2	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	4
5:30 PM	0	2	0	0	2	4	1	0	0	5	0	0	3	0	3	0	0	0	0	0	0	10
5:45 PM	0	4	1	0	5	1	1	0	0	2	0	0	2	0	2	0	0	0	0	0	0	9
Total	1	9	1	0	11	7	4	0	0	11	0	0	6	0	6	0	0	0	0	0	0	28
Grand Total	1	14	3	0	18	9	5	0	0	14	1	0	8	0	9	0	0	0	0	0	0	41
Apprch %	5.6	77.8	16.7	0.0		64.3	35.7	0.0	0.0		11.1	0.0	88.9	0.0								
Total %	2.4	34.1	7.3	0.0	43.9	22.0	12.2	0.0	0.0	34.1	2.4	0.0	19.5	0.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0	
Overall Peak Hour Volume	1	8	2	0	11	4	3	0	0	7	1	0	3	0	4	0	0	0	0	0	0	22



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
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Intersection #: 3
 Job Number: R006524.0426
 Date: 11/2/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Industrial Rd Northbound					322 Ramp Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	0	244	14	0	258	18	156	0	0	174	22	0	37	0	59	27	1	10	0	38	529
4:45 PM	0	274	9	0	283	10	149	0	0	159	24	0	41	0	65	20	4	3	0	27	534
Total	0	518	23	0	541	28	305	0	0	333	46	0	78	0	124	47	5	13	0	65	1063
5:00 PM	0	268	15	0	283	22	160	0	0	182	31	0	53	0	84	33	10	8	0	51	600
5:15 PM	0	248	18	0	266	10	159	0	0	169	18	0	42	0	60	31	7	5	0	43	538
5:30 PM	0	244	11	0	255	10	136	0	0	146	25	0	42	0	67	33	4	8	0	45	513
5:45 PM	0	205	15	0	220	12	125	0	0	137	20	0	37	0	57	29	4	9	0	42	456
Total	0	965	59	0	1024	54	580	0	0	634	94	0	174	0	268	126	25	30	0	181	2107
Grand Total	0	1483	82	0	1565	82	885	0	0	967	140	0	252	0	392	173	30	43	0	246	3170
Apprch %	0.0	94.8	5.2	0.0		8.5	91.5	0.0	0.0		35.7	0.0	64.3	0.0		70.3	12.2	17.5	0.0		
Total %	0.0	46.8	2.6	0.0	49.4	2.6	27.9	0.0	0.0	30.5	4.4	0.0	7.9	0.0	12.4	5.5	0.9	1.4	0.0	7.8	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Industrial Rd Northbound					322 Ramp Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	4:30 PM to 5:30 PM																				
Volume	0	1034	56	1	1091	60	624	0	0	684	95	0	173	9	277	111	22	26	0	159	2211
Percent	0.0	94.8	5.1	0.1		8.8	91.2	0.0	0.0		34.3	0.0	62.5	3.2		69.8	13.8	16.4	0.0		
5:00 PM																					
Volume	0	268	15	0	283	22	160	0	0	182	31	0	53	2	86	33	10	8	0	51	602
Factor																					
High Int.	4:45 PM					5:00 PM					5:00 PM					5:00 PM					
Volume	0	274	9	0	283	22	160	0	0	182	31	0	53	2	86	33	10	8	0	51	
PHF		0.94	0.78	0.25	0.96	0.68	0.98			0.94	0.77		0.82	0.45	0.81	0.84	0.55	0.65		0.78	0.92
Heavy Vehicles %	0%	1%	5%			12%	1%	0%			1%	0%	6%			3%	32%	4%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	1		0		0	0		0		0	9		0		18	0		



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 3
 Job Number: R006524.0426
 Date: 11/2/2016
 Page No: 2

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Industrial Rd Northbound					322 Ramp Southbound					Int. Total	
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total		
4:30 PM	0	3	2	1	6	2	3	0	0	5	0	0	4	0	4	0	0	0	0	0	0	15
4:45 PM	0	1	0	0	1	0	3	0	0	3	1	0	1	5	7	1	2	0	0	3	3	14
Total	0	4	2	1	7	2	6	0	0	8	1	0	5	5	11	1	2	0	0	3	3	29
5:00 PM	0	0	1	0	1	5	1	0	0	6	0	0	3	2	5	1	3	0	0	4	4	16
5:15 PM	0	2	0	0	2	0	2	0	0	2	0	0	3	2	5	1	2	1	0	4	4	13
5:30 PM	0	0	0	0	0	1	1	0	0	2	0	0	7	4	11	0	1	0	0	1	1	14
5:45 PM	0	2	3	0	5	2	0	0	0	2	0	0	6	2	8	0	0	0	0	0	0	15
Total	0	4	4	0	8	8	4	0	0	12	0	0	19	10	29	2	6	1	0	9	9	58
Grand Total	0	8	6	1	15	10	10	0	0	20	1	0	24	15	40	3	8	1	0	12	12	87
Apprch %	0.0	53.3	40.0	6.7		50.0	50.0	0.0	0.0		2.5	0.0	60.0	37.5		25.0	66.7	8.3	0.0			
Total %	0.0	9.2	6.9	1.1	17.2	11.5	11.5	0.0	0.0	23.0	1.1	0.0	27.6	17.2	46.0	3.4	9.2	1.1	0.0	13.8		
Overall Peak Hour Volume	0	6	3	1	10	7	9	0	0	16	1	0	11	9	21	3	7	1	0	11	11	58



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 3
 Job Number: R006524.0426
 Date: 11/2/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

U-Turn & RTOR

Start Time	Route 0039 Eastbound				Route 0039 Westbound				Industrial Rd Northbound				322 Ramp Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
4:30 PM	0		0	0	0		0	0	0		0	0	0		7	7	7
4:45 PM	0		0	0	0		0	0	0		0	0	0		2	2	2
Total	0		0	0	0		0	0	0		0	0	0		9	9	9
5:00 PM	0		0	0	0		0	0	0		0	0	0		5	5	5
5:15 PM	0		0	0	0		0	0	0		0	0	0		4	4	4
5:30 PM	0		0	0	0		0	0	0		0	0	0		4	4	4
5:45 PM	0		0	0	0		0	0	0		0	0	0		5	5	5
Total	0		0	0	0		0	0	0		0	0	0		18	18	18
Grand Total	0		0	0	0		0	0	0		0	0	0		27	27	27
Aprrch %													0.0	0.0	100.0	0.0	
Total %	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		100.0	100.0	
Overall Peak Hour Volume	0		0	0	0		0	0	0		0	0	0		18	18	18



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 4
 Job Number: R006524.0426
 Date: 11/1/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Start Time	Route 0039 Eastbound					Route 0039 Westbound					322 Ramp Northbound					322 Ramp / Mountain View Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	54	239	0	0	293	0	195	92	0	287	13	2	57	0	72	0	0	4	0	4	656
4:45 PM	61	250	0	0	311	0	168	63	0	231	20	0	53	0	73	0	0	2	1	3	618
Total	115	489	0	0	604	0	363	155	0	518	33	2	110	0	145	0	0	6	1	7	1274
5:00 PM	58	228	0	0	286	0	184	101	0	285	21	2	73	0	96	0	0	2	0	2	669
5:15 PM	63	264	0	0	327	0	182	83	0	265	8	1	47	0	56	0	0	2	0	2	650
5:30 PM	28	229	0	0	257	0	200	69	0	269	15	1	61	0	77	1	0	4	0	5	608
5:45 PM	30	190	0	0	220	0	159	66	0	225	14	2	60	0	76	1	0	2	0	3	524
Total	179	911	0	0	1090	0	725	319	0	1044	58	6	241	0	305	2	0	10	0	12	2451
Grand Total	294	1400	0	0	1694	0	1088	474	0	1562	91	8	351	0	450	2	0	16	1	19	3725
Apprch %	17.4	82.6	0.0	0.0		0.0	69.7	30.3	0.0		20.2	1.8	78.0	0.0		10.5	0.0	84.2	5.3		
Total %	7.9	37.6	0.0	0.0	45.5	0.0	29.2	12.7	0.0	41.9	2.4	0.2	9.4	0.0	12.1	0.1	0.0	0.4	0.0	0.5	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					322 Ramp Northbound					322 Ramp / Mountain View Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	4:30 PM					to					5:30 PM										
Volume	236	981	0	0	1217	0	729	339	0	1068	62	5	230	0	297	0	0	10	1	11	2593
Percent	19.4	80.6	0.0	0.0		0.0	68.3	31.7	0.0		20.9	1.7	77.4	0.0		0.0	0.0	90.9	9.1		
5:00 PM																					
Volume Peak Factor	58	228	0	0	286	0	184	101	0	285	21	2	73	0	96	0	0	2	0	2	669
High Int.	5:15 PM					4:30 PM					5:00 PM					5:30 PM					
Volume	63	264	0	0	327	0	195	92	0	287	21	2	73	0	96	1	0	4	0	5	
PHF	0.94	0.93			0.93	0.93	0.93	0.84	0.93		0.74	0.63	0.79	0.77		0.74	0.63	0.63	0.25	0.69	0.97
Heavy Vehicles %	1%	1%	0%			0%	1%	0%			19%	0%	1%			0%	0%	0%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 4
 Job Number: R006524.0426
 Date: 11/1/2016
 Page No: 2

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					322 Ramp Northbound					322 Ramp / Mountain View Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
4:30 PM	2	2	0	0	4	0	0	0	0	0	2	0	2	0	4	0	0	0	0	0	8
4:45 PM	0	1	0	0	1	0	4	0	0	4	4	0	1	0	5	0	0	0	0	0	10
Total	2	3	0	0	5	0	4	0	0	4	6	0	3	0	9	0	0	0	0	0	18
5:00 PM	1	2	0	0	3	0	2	1	0	3	6	0	0	0	6	0	0	0	0	0	12
5:15 PM	0	2	0	0	2	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	3
5:30 PM	0	1	0	0	1	0	1	2	0	3	5	0	0	0	5	0	0	0	0	0	9
5:45 PM	2	0	0	0	2	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	3
Total	3	5	0	0	8	0	5	3	0	8	11	0	0	0	11	0	0	0	0	0	27
Grand Total	5	8	0	0	13	0	9	3	0	12	17	0	3	0	20	0	0	0	0	0	45
Apprch %	38.5	61.5	0.0	0.0		0.0	75.0	25.0	0.0		85.0	0.0	15.0	0.0		0.0	0.0	0.0	0.0	0.0	
Total %	11.1	17.8	0.0	0.0	28.9	0.0	20.0	6.7	0.0	26.7	37.8	0.0	6.7	0.0	44.4	0.0	0.0	0.0	0.0	0.0	
Overall Peak Hour Volume	3	7	0	0	10	0	7	1	0	8	12	0	3	0	15	0	0	0	0	0	33



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
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Intersection #: 5
 Job Number: R006524.0426
 Date: 10/12/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

All Vehicles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Fargreen Rd Northbound					Fargreen Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	8	234	15	0	257	0	264	6	0	270	6	0	2	0	8	12	0	3	0	15	550
4:45 PM	8	271	11	0	290	1	268	6	0	275	13	0	1	0	14	10	0	3	0	13	592
Total	16	505	26	0	547	1	532	12	0	545	19	0	3	0	22	22	0	6	0	28	1142
5:00 PM	9	263	18	0	290	1	281	4	0	286	8	1	0	0	9	5	0	5	0	10	595
5:15 PM	8	280	12	0	300	1	246	4	0	251	12	2	1	0	15	10	3	3	0	16	582
5:30 PM	12	281	13	0	306	1	253	0	0	254	6	2	0	0	8	14	0	4	0	18	586
5:45 PM	10	294	19	0	323	3	215	4	0	222	7	1	0	0	8	3	0	2	0	5	558
Total	39	1118	62	0	1219	6	995	12	0	1013	33	6	1	0	40	32	3	14	0	49	2321
Grand Total	55	1623	88	0	1766	7	1527	24	0	1558	52	6	4	0	62	54	3	20	0	77	3463
Apprch %	3.1	91.9	5.0	0.0		0.4	98.0	1.5	0.0		83.9	9.7	6.5	0.0		70.1	3.9	26.0	0.0		
Total %	1.6	46.9	2.5	0.0	51.0	0.2	44.1	0.7	0.0	45.0	1.5	0.2	0.1	0.0	1.8	1.6	0.1	0.6	0.0	2.2	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Fargreen Rd Northbound					Fargreen Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	4:45 PM to 5:45 PM																				
Volume	37	1095	54	0	1186	4	1048	14	1	1067	39	5	2	4	50	39	3	15	1	58	2361
Percent	3.1	92.3	4.6	0.0		0.4	98.2	1.3	0.1		78.0	10.0	4.0	8.0		67.2	5.2	25.9	1.7		
5:00 PM																					
Volume	9	263	18	0	290	1	281	4	0	286	8	1	0	1	10	5	0	5	0	10	596
Peak Factor																					
High Int.	5:45 PM					5:00 PM					5:15 PM					5:30 PM					
Volume	10	294	19	0	323	1	281	4	0	286	12	2	1	1	16	14	0	4	0	18	
PHF	0.77	0.97	0.75	0.97		1.00	0.93	0.58	0.25	0.93	0.75	0.63	0.50	1.00	0.78	0.70	0.25	0.75	0.25	0.81	0.99
Heavy Vehicles %	0%	1%	2%			0%	1%	0%			8%	0%	50%			0%	33%	0%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		1	0		0		0	1		0		0	4		0		4	1		



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 5
 Job Number: R006524.0426
 Date: 10/12/2016
 Page No: 2

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Fargreen Rd Northbound					Fargreen Rd Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
4:30 PM	1	0	3	0	4	0	6	0	0	6	1	0	0	0	1	1	0	0	1	2	13
4:45 PM	0	1	1	0	2	0	3	0	1	4	3	0	1	1	5	0	0	0	1	1	12
Total	1	1	4	0	6	0	9	0	1	10	4	0	1	1	6	1	0	0	2	3	25
5:00 PM	0	1	0	0	1	0	1	0	0	1	0	0	0	1	1	0	0	0	0	0	3
5:15 PM	0	2	0	0	2	0	2	0	0	2	0	0	0	1	1	0	1	0	0	1	6
5:30 PM	0	2	0	0	2	0	4	0	0	4	0	0	0	1	1	0	0	0	0	0	7
5:45 PM	0	4	1	0	5	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	6
Total	0	9	1	0	10	0	8	0	0	8	0	0	0	3	3	0	1	0	0	1	22
Grand Total	1	10	5	0	16	0	17	0	1	18	4	0	1	4	9	1	1	0	2	4	47
Apprch %	6.3	62.5	31.3	0.0		0.0	94.4	0.0	5.6		44.4	0.0	11.1	44.4		25.0	25.0	0.0	50.0		
Total %	2.1	21.3	10.6	0.0	34.0	0.0	36.2	0.0	2.1	38.3	8.5	0.0	2.1	8.5	19.1	2.1	2.1	0.0	4.3	8.5	
Overall Peak Hour Volume	0	6	1	0	7	0	10	0	1	11	3	0	1	4	8	0	1	0	1	2	28



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 5
 Job Number: R006524.0426
 Date: 10/12/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

U-Turn & RTOR

Start Time	Route 0039 Eastbound				Route 0039 Westbound				Fargreen Rd Northbound				Fargreen Rd Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
4:30 PM	0		0	0	0		1	1	0		2	2	0		1	1	4
4:45 PM	0		1	1	0		0	0	0		0	0	0		3	3	4
Total	0		1	1	0		1	1	0		2	2	0		4	4	8
5:00 PM	0		0	0	0		0	0	0		0	0	0		1	1	1
5:15 PM	0		0	0	0		0	0	0		0	0	0		0	0	0
5:30 PM	0		0	0	0		0	0	0		0	0	0		0	0	0
5:45 PM	0		0	0	0		0	0	0		0	0	0		2	2	2
Total	0		0	0	0		0	0	0		0	0	0		3	3	3
Grand Total	0		1	1	0		0	0	0		2	2	0		7	7	10
Apprch %	0.0	0.0	100.0	0.0					0.0	0.0	100.0	0.0	0.0	0.0	100.0	0.0	
Total %	0.0		10.0	10.0	0.0		0.0	0.0	0.0		20.0	20.0	0.0		70.0	70.0	
Overall Peak Hour Volume	0		1	1	0		0	0	0		0	0	0		4	4	5



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 6
 Job Number: R006524.0426
 Date: 10/20/2016
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

All Vehicles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					N/A Northbound					Deer Path Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	24	202	0	0	226	0	214	5	0	219	0	0	0	0	0	30	0	62	0	92	537
4:45 PM	27	214	0	0	241	0	240	3	0	243	0	0	0	0	0	17	0	47	0	64	548
Total	51	416	0	0	467	0	454	8	0	462	0	0	0	0	0	47	0	109	0	156	1085
5:00 PM	45	221	0	0	266	0	203	1	0	204	0	0	0	0	0	21	0	45	0	66	536
5:15 PM	28	253	0	0	281	0	222	4	0	226	0	0	0	0	0	17	0	35	0	52	559
5:30 PM	35	233	0	0	268	0	187	3	0	190	0	0	0	0	0	9	0	34	0	43	501
5:45 PM	14	169	0	0	183	0	214	3	0	217	0	0	0	0	0	5	0	18	0	23	423
Total	122	876	0	0	998	0	826	11	0	837	0	0	0	0	0	52	0	132	0	184	2019
Grand Total	173	1292	0	0	1465	0	1280	19	0	1299	0	0	0	0	0	99	0	241	0	340	3104
Apprch %	11.8	88.2	0.0	0.0		0.0	98.5	1.5	0.0		0.0	0.0	0.0	0.0		29.1	0.0	70.9	0.0		
Total %	5.6	41.6	0.0	0.0	47.2	0.0	41.2	0.6	0.0	41.8	0.0	0.0	0.0	0.0	0.0	3.2	0.0	7.8	0.0	11.0	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					N/A Northbound					Deer Path Rd Southbound					Int. Total				
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total					
Peak Hour From	4:30 PM to 5:30 PM																								
Volume	124	890	0	0	1014	0	879	13	0	892	0	0	0	0	0	85	0	189	0	274	2180				
Percent	12.2	87.8	0.0	0.0		0.0	98.5	1.5	0.0							31.0	0.0	69.0	0.0						
5:15 PM																									
Volume Peak	28	253	0	0	281	0	222	4	0	226	0	0	0	0	0	17	0	35	0	52	559				
Factor																									
High Int.	5:15 PM					4:45 PM					4:30 PM					4:30 PM									
Volume PHF	0.69	0.88	0.0	0.0	0.90	0	240	3	0	243	0	0	0	0	0	0.71	0	0.76	0	0.74	0.97				
Heavy Vehicles %	1%	1%	0%			0%	1%	8%			0%	0%	0%			0%	0%	1%							
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes						
	0		0	0		0		0	0		0		0	0		0		63	0						



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 369 East Park Drive
 Harrisburg, PA 17111
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Intersection #: 6
 Job Number: R006524.0426
 Date: 10/20/2016
 Page No: 2

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					N/A Northbound					Deer Path Rd Southbound					Int. Total	
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total		
4:30 PM	0	3	0	0	3	0	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	6
4:45 PM	0	2	0	0	2	0	6	0	0	6	0	0	0	0	0	0	0	2	0	2	2	10
Total	0	5	0	0	5	0	8	1	0	9	0	0	0	0	0	0	0	2	0	2	2	16
5:00 PM	1	3	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5:15 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:30 PM	1	3	0	0	4	0	2	1	0	3	0	0	0	0	0	0	0	2	0	2	2	9
5:45 PM	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
Total	2	7	0	0	9	0	5	1	0	6	0	0	0	0	0	0	0	2	0	2	2	17
Grand Total	2	12	0	0	14	0	13	2	0	15	0	0	0	0	0	0	0	4	0	4	4	33
Apprch %	14.3	85.7	0.0	0.0		0.0	86.7	13.3	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0			
Total %	6.1	36.4	0.0	0.0	42.4	0.0	39.4	6.1	0.0	45.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	0.0	12.1		
Overall Peak Hour Volume	1	9	0	0	10	0	8	1	0	9	0	0	0	0	0	0	0	2	0	2	2	21



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 6
 Job Number: R006524.0426
 Date: 10/20/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

U-Turn & RTOR

Start Time	Route 0039 Eastbound				Route 0039 Westbound				N/A Northbound				Deer Path Rd Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
4:30 PM	0		0	0	0		0	0	0		0	0	0		18	18	18
4:45 PM	0		0	0	0		0	0	0		0	0	0		10	10	10
Total	0		0	0	0		0	0	0		0	0	0		28	28	28
5:00 PM	0		0	0	0		0	0	0		0	0	0		23	23	23
5:15 PM	0		0	0	0		0	0	0		0	0	0		12	12	12
5:30 PM	0		0	0	0		0	0	0		0	0	0		24	24	24
5:45 PM	0		0	0	0		0	0	0		0	0	0		15	15	15
Total	0		0	0	0		0	0	0		0	0	0		74	74	74
Grand Total	0		0	0	0		0	0	0		0	0	0		102	102	102
Aprrch %													0.0	0.0	100.0	0.0	
Total %	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		100.0	100.0	
Overall Peak Hour Volume	0		0	0	0		0	0	0		0	0	0		63	63	63



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 7
 Job Number: R006524.0426
 Date: 10/11/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

All Vehicles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Crooked Hill Rd Northbound					Crooked Hill Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	15	210	10	0	235	19	171	38	0	228	18	10	38	0	66	32	5	24	0	61	590
4:45 PM	12	249	5	0	266	25	197	34	0	256	10	10	17	0	37	24	3	22	0	49	608
Total	27	459	15	0	501	44	368	72	0	484	28	20	55	0	103	56	8	46	0	110	1198
5:00 PM	14	235	10	0	259	33	212	31	0	276	7	8	32	0	47	29	6	13	0	48	630
5:15 PM	20	244	14	0	278	21	206	40	0	267	15	16	34	0	65	33	8	13	1	55	665
5:30 PM	15	199	9	0	223	35	166	40	0	241	13	9	18	0	40	29	5	19	0	53	557
5:45 PM	14	159	9	0	182	15	200	37	6	258	15	14	30	0	59	34	10	8	0	52	551
Total	63	837	42	0	942	104	784	148	6	1042	50	47	114	0	211	125	29	53	1	208	2403

Grand Total	90	1296	57	0	1443	148	1152	220	6	1526	78	67	169	0	314	181	37	99	1	318	3601
Apprch %	6.2	89.8	4.0	0.0		9.7	75.5	14.4	0.4		24.8	21.3	53.8	0.0		56.9	11.6	31.1	0.3		
Total %	2.5	36.0	1.6	0.0	40.1	4.1	32.0	6.1	0.2	42.4	2.2	1.9	4.7	0.0	8.7	5.0	1.0	2.7	0.0	8.8	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Crooked Hill Rd Northbound					Crooked Hill Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	4:30 PM to 5:30 PM																				
Volume	61	938	39	3	1041	98	786	143	0	1027	50	44	121	1	216	118	22	72	1	213	2497
Percent	5.9	90.1	3.7	0.3		9.5	76.5	13.9	0.0		23.1	20.4	56.0	0.5		55.4	10.3	33.8	0.5		
5:15 PM																					
Volume Peak	20	244	14	0	278	21	206	40	0	267	15	16	34	1	66	33	8	13	1	55	666
Factor																					
High Int.	5:15 PM					5:00 PM					4:30 PM					4:30 PM					
Volume	20	244	14	0	278	33	212	31	0	276	18	10	38	0	66	32	5	24	0	61	
PHF	0.76	0.94	0.70	0.38	0.94	0.74	0.93	0.89	0.93	0.93	0.69	0.69	0.80	0.25	0.82	0.89	0.69	0.75	0.25	0.87	0.94
Heavy Vehicles %	2%	1%	3%			0%	1%	0%			2%	2%	1%			3%	0%	0%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	3		0		19	0		0		39	1		0		31	0		



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 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 7
 Job Number: R006524.0426
 Date: 10/11/2016
 Page No: 2

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Crooked Hill Rd Northbound					Crooked Hill Rd Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
4:30 PM	0	6	0	0	6	0	3	0	0	3	0	0	0	0	0	1	0	0	0	1	10
4:45 PM	0	1	0	1	2	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	4
Total	0	7	0	1	8	0	5	0	0	5	0	0	0	0	0	1	0	0	0	1	14
5:00 PM	1	1	0	2	4	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	6
5:15 PM	0	1	1	0	2	0	2	0	0	2	1	1	0	1	3	1	0	0	0	1	8
5:30 PM	0	1	1	0	2	0	0	1	0	1	1	0	0	1	1	1	0	0	0	1	5
5:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2
Total	1	4	2	2	9	0	2	1	0	3	2	1	1	1	5	4	0	0	0	4	21
Grand Total	1	11	2	3	17	0	7	1	0	8	2	1	1	1	5	5	0	0	0	5	35
Apprch %	5.9	64.7	11.8	17.6		0.0	87.5	12.5	0.0		40.0	20.0	20.0	20.0		100.0	0.0	0.0	0.0		
Total %	2.9	31.4	5.7	8.6	48.6	0.0	20.0	2.9	0.0	22.9	5.7	2.9	2.9	2.9	14.3	14.3	0.0	0.0	0.0	14.3	
Overall Peak Hour Volume	1	9	1	3	14	0	7	0	0	7	1	1	1	1	4	3	0	0	0	3	28



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Intersection #: 7
 Job Number: R006524.0426
 Date: 10/11/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

U-Turn & RTOR

Start Time	Route 0039 Eastbound				Route 0039 Westbound				Crooked Hill Rd Northbound				Crooked Hill Rd Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
4:30 PM	0		0	0	0		10	10	0		15	15	0		10	10	35
4:45 PM	0		0	0	0		6	6	0		6	6	0		7	7	19
Total	0		0	0	0		16	16	0		21	21	0		17	17	54
5:00 PM	0		0	0	0		3	3	0		7	7	0		10	10	20
5:15 PM	0		0	0	0		0	0	0		11	11	0		4	4	15
5:30 PM	0		0	0	0		11	11	0		6	6	0		6	6	23
5:45 PM	0		0	0	0		7	7	0		18	18	0		5	5	30
Total	0		0	0	0		21	21	0		42	42	0		25	25	88
Grand Total	0		0	0	0		0	0	0		63	63	0		42	42	105
Aprrch %									0.0	0.0	100.0	0.0	0.0	0.0	100.0	0.0	
Total %	0.0		0.0	0.0	0.0		0.0	0.0	0.0		60.0	60.0	0.0		40.0	40.0	
Overall Peak Hour Volume	0		0	0	0		19	19	0		39	39	0		31	31	89



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 8
 Job Number: R006524.0426
 Date: 10/26/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

All Vehicles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Private Driveway Northbound					Blue Mountain Commons Dwy. Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	73	237	8	0	318	12	211	5	0	228	2	2	11	2	17	65	0	52	2	119	682
4:45 PM	77	257	7	0	341	9	202	7	0	218	5	1	14	0	20	58	0	49	0	107	686
Total	150	494	15	0	659	21	413	12	0	446	7	3	25	2	37	123	0	101	2	226	1368
5:00 PM	69	238	9	0	316	8	199	4	0	211	8	1	9	0	18	71	3	46	2	122	667
5:15 PM	83	284	17	0	384	4	205	10	0	219	9	0	14	0	23	65	0	60	1	126	752
5:30 PM	76	256	5	0	337	7	181	4	0	192	6	0	13	0	19	74	0	48	0	122	670
5:45 PM	67	189	5	0	261	4	171	6	1	182	4	5	8	0	17	66	1	59	0	126	586
Total	295	967	36	0	1298	23	756	24	1	804	27	6	44	0	77	276	4	213	3	496	2675

Grand Total	445	1461	51	0	1957	44	1169	36	1	1250	34	9	69	2	114	399	4	314	5	722	4043
Apprch %	22.7	74.7	2.6	0.0		3.5	93.5	2.9	0.1		29.8	7.9	60.5	1.8		55.3	0.6	43.5	0.7		
Total %	11.0	36.1	1.3	0.0	48.4	1.1	28.9	0.9	0.0	30.9	0.8	0.2	1.7	0.0	2.8	9.9	0.1	7.8	0.1	17.9	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Private Driveway Northbound					Blue Mountain Commons Dwy. Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	4:30 PM to 5:30 PM																				
Volume	302	1016	41	0	1359	33	817	26	0	876	24	4	48	3	79	259	3	207	5	474	2788
Percent	22.2	74.8	3.0	0.0		3.8	93.3	3.0	0.0		30.4	5.1	60.8	3.8		54.6	0.6	43.7	1.1		
5:15 PM Volume Peak Factor	83	284	17	0	384	4	205	10	0	219	9	0	14	1	24	65	0	60	1	126	753
High Int. Volume	5:15 PM					4:30 PM					5:15 PM					5:15 PM					
PHF	0.91	0.89	0.60	0.88		0.69	0.97	0.65	0.96		0.67	0.50	0.86	0.38	0.82	0.91	0.25	0.86	0.63	0.94	0.93
Heavy Vehicles %	1%	1%	0%			0%	1%	8%			0%	0%	0%			0%	0%	1%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		17	1		0		0	0		



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 8
 Job Number: R006524.0426
 Date: 10/26/2016
 Page No: 2

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Private Driveway Northbound					Blue Mountain Commons Dwy. Southbound					Int. Total	
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total		
4:30 PM	2	1	0	0	3	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	5
4:45 PM	0	1	0	0	1	0	2	0	0	2	0	0	0	0	0	0	0	2	0	2	2	5
Total	2	2	0	0	4	0	4	0	0	4	0	0	0	0	0	0	0	2	0	2	2	10
5:00 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	3
5:15 PM	0	5	0	0	5	0	1	2	0	3	0	0	0	1	1	0	0	0	0	0	0	9
5:30 PM	2	1	0	0	3	0	1	0	0	1	0	0	0	0	0	2	0	0	0	0	2	6
5:45 PM	0	0	0	0	0	0	2	2	0	4	0	0	0	1	1	1	0	0	0	0	1	6
Total	2	8	0	0	10	0	4	4	0	8	0	0	0	2	2	3	0	1	0	4	4	24
Grand Total	4	10	0	0	14	0	8	4	0	12	0	0	0	2	2	3	0	3	0	6	6	34
Apprch %	28.6	71.4	0.0	0.0		0.0	66.7	33.3	0.0		0.0	0.0	0.0	100.0		50.0	0.0	50.0	0.0			
Total %	11.8	29.4	0.0	0.0	41.2	0.0	23.5	11.8	0.0	35.3	0.0	0.0	0.0	5.9	5.9	8.8	0.0	8.8	0.0	17.6		
Overall Peak Hour Volume	2	9	0	0	11	0	5	2	0	7	0	0	0	1	1	0	0	3	0	3	3	22



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 8
 Job Number: R006524.0426
 Date: 10/26/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

U-Turn & RTOR

Start Time	Route 0039 Eastbound				Route 0039 Westbound				Private Driveway Northbound				Blue Mountain Commons Dwy. Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
4:30 PM	0		0	0	0		0	0	0		7	7	0		0	0	7
4:45 PM	0		0	0	0		0	0	0		5	5	0		0	0	5
Total	0		0	0	0		0	0	0		12	12	0		0	0	12
5:00 PM	0		0	0	0		0	0	0		2	2	0		0	0	2
5:15 PM	0		0	0	0		0	0	0		3	3	0		0	0	3
5:30 PM	0		0	0	0		0	0	0		6	6	0		0	0	6
5:45 PM	0		0	0	0		0	0	0		3	3	0		0	0	3
Total	0		0	0	0		0	0	0		14	14	0		0	0	14
Grand Total	0		0	0	0		0	0	0		26	26	0		0	0	26
Aprrch %									0.0	0.0	100.0	0.0					
Total %	0.0		0.0	0.0	0.0		0.0	0.0	0.0		100.0	100.0	0.0		0.0	0.0	
Overall Peak Hour Volume	0		0	0	0		0	0	0		17	17	0		0	0	17



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 9
 Job Number: R006524.0426
 Date: 9/29/2016
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

All Vehicles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Progress Ave (SR 3015) Northbound					Progress Ave Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	38	160	92	0	290	60	134	7	0	201	81	34	67	0	182	10	13	20	0	43	716
4:45 PM	42	196	81	1	320	64	171	6	0	241	77	28	67	0	172	8	18	16	0	42	775
Total	80	356	173	1	610	124	305	13	0	442	158	62	134	0	354	18	31	36	0	85	1491
5:00 PM	38	203	96	0	337	55	161	4	0	220	93	22	54	0	169	11	12	16	0	39	765
5:15 PM	32	194	81	0	307	63	172	5	0	240	86	30	60	0	176	11	15	21	0	47	770
5:30 PM	45	206	83	0	334	47	134	7	0	188	77	28	49	0	154	14	12	11	0	37	713
5:45 PM	31	187	80	0	298	68	151	13	0	232	61	44	43	0	148	12	24	18	0	54	732
Total	146	790	340	0	1276	233	618	29	0	880	317	124	206	0	647	48	63	66	0	177	2980

Grand Total	226	1146	513	1	1886	357	923	42	0	1322	475	186	340	0	1001	66	94	102	0	262	4471
Apprch %	12.0	60.8	27.2	0.1		27.0	69.8	3.2	0.0		47.5	18.6	34.0	0.0		25.2	35.9	38.9	0.0		
Total %	5.1	25.6	11.5	0.0	42.2	8.0	20.6	0.9	0.0	29.6	10.6	4.2	7.6	0.0	22.4	1.5	2.1	2.3	0.0	5.9	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Progress Ave (SR 3015) Northbound					Progress Ave Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	4:30 PM to 5:30 PM																				
Volume	150	753	350	1	1254	242	638	22	0	902	337	114	248	1	700	40	58	73	0	171	3027
Percent	12.0	60.0	27.9	0.1		26.8	70.7	2.4	0.0		48.1	16.3	35.4	0.1		23.4	33.9	42.7	0.0		
4:45 PM																					
Volume Peak	42	196	81	1	320	64	171	6	0	241	77	28	67	0	172	8	18	16	0	42	775
Factor																					
High Int.	5:00 PM					4:45 PM					4:30 PM					5:45 PM					
Volume	38	203	96	0	337	64	171	6	0	241	81	34	67	0	182	12	24	18	0	54	
PHF	0.89	0.93	0.91	0.25	0.93	0.95	0.93	0.79	0.94	0.94	0.91	0.84	0.93	0.25	0.96	0.91	0.81	0.87		0.91	0.98
Heavy Vehicles %	0%	1%	1%			0%	1%	0%			1%	2%	0%			0%	2%	0%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	1		0		3	0		



AN EMPLOYEE-OWNED COMPANY

Route 0039 Land Use and Traffic Study
PM PEAK HOUR

Herbert, Rowland & Grubic, Inc.
369 East Park Drive
Harrisburg, PA 17111
(717) 564-1121

Intersection #: 9
Job Number: R006524.0426
Date: 9/29/2016
Page No: 2

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Progress Ave (SR 3015) Northbound					Progress Ave Southbound					Int. Total	
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total		
4:30 PM	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
4:45 PM	0	0	1	0	1	0	1	0	0	1	1	2	0	0	3	0	1	0	0	1	1	6
Total	0	1	1	0	2	0	2	0	0	2	1	2	0	0	3	0	1	0	0	1	1	8
5:00 PM	0	2	1	0	3	0	3	0	0	3	0	0	0	1	1	0	0	0	0	0	0	7
5:15 PM	0	4	1	0	5	0	0	0	0	0	1	0	1	0	2	0	0	0	0	0	0	7
5:30 PM	1	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5:45 PM	0	0	2	0	2	0	1	0	0	1	1	0	1	0	2	0	0	0	0	0	0	5
Total	1	6	5	0	12	0	4	0	0	4	2	0	2	1	5	0	0	0	0	0	0	21
Grand Total	1	7	6	0	14	0	6	0	0	6	3	2	2	1	8	0	1	0	0	1	1	29
Apprch %	7.1	50.0	42.9	0.0		0.0	100.0	0.0	0.0		37.5	25.0	25.0	12.5		0.0	100.0	0.0	0.0			
Total %	3.4	24.1	20.7	0.0	48.3	0.0	20.7	0.0	0.0	20.7	10.3	6.9	6.9	3.4	27.6	0.0	3.4	0.0	0.0	3.4		
Overall Peak Hour Volume	0	7	3	0	10	0	5	0	0	5	2	2	1	1	6	0	1	0	0	1	1	22



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 9
 Job Number: R006524.0426
 Date: 9/29/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

U-Turn & RTOR

Start Time	Route 0039 Eastbound				Route 0039 Westbound				Progress Ave (SR 3015) Northbound				Progress Ave Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
4:30 PM	0		0	0	0		0	0	0		0	0	0		3	3	3
4:45 PM	0		0	0	0		0	0	0		0	0	0		0	0	0
Total	0		0	0	0		0	0	0		0	0	0		3	3	3
5:00 PM	0		0	0	0		0	0	0		0	0	0		0	0	0
5:15 PM	0		0	0	0		0	0	0		0	0	0		0	0	0
5:30 PM	0		0	0	0		0	0	0		0	0	0		0	0	0
5:45 PM	0		0	0	0		0	0	0		0	0	0		0	0	0
Total	0		0	0	0		0	0	0		0	0	0		0	0	0
Grand Total	0		0	0	0		0	0	0		0	0	0		3	3	3
Aprrch %													0.0	0.0	100.0	0.0	
Total %	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		100.0	100.0	
Overall Peak Hour Volume	0		0	0	0		0	0	0		0	0	0		3	3	3



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 10
 Job Number: R006524.0426
 Date: 10/18/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Sturbridge Dr Northbound					Private Driveway Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	0	193	19	2	214	5	164	0	0	169	34	0	29	0	63	0	0	0	0	0	446
4:45 PM	0	236	19	2	257	9	203	0	0	212	32	0	21	0	53	0	0	0	0	0	522
Total	0	429	38	4	471	14	367	0	0	381	66	0	50	0	116	0	0	0	0	0	968
5:00 PM	0	274	14	0	288	4	219	0	0	223	37	0	20	0	57	0	0	0	0	0	568
5:15 PM	0	246	14	1	261	9	219	0	0	228	29	0	23	1	53	0	0	0	0	0	542
5:30 PM	0	230	15	1	246	2	181	0	0	183	50	0	18	0	68	0	0	0	0	0	497
5:45 PM	0	250	22	0	272	4	160	0	0	164	15	0	10	0	25	0	0	0	0	0	461
Total	0	1000	65	2	1067	19	779	0	0	798	131	0	71	1	203	0	0	0	0	0	2068

Grand Total	0	1429	103	6	1538	33	1146	0	0	1179	197	0	121	1	319	0	0	0	0	0	3036
Apprch %	0.0	92.9	6.7	0.4		2.8	97.2	0.0	0.0		61.8	0.0	37.9	0.3		0.0	0.0	0.0	0.0	0.0	
Total %	0.0	47.1	3.4	0.2	50.7	1.1	37.7	0.0	0.0	38.8	6.5	0.0	4.0	0.0	10.5	0.0	0.0	0.0	0.0	0.0	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Sturbridge Dr Northbound					Private Driveway Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	4:45 PM to 5:45 PM																				
Volume	0	986	62	4	1052	24	822	0	0	846	148	0	82	7	237	0	0	0	0	0	2135
Percent	0.0	93.7	5.9	0.4		2.8	97.2	0.0	0.0		62.4	0.0	34.6	3.0							
5:00 PM																					
Volume Peak	0	274	14	0	288	4	219	0	0	223	37	0	20	1	58	0	0	0	0	0	569
Factor																					
High Int.	5:00 PM					5:15 PM					5:30 PM					4:30 PM					
Volume	0	274	14	0	288	9	219	0	0	228	50	0	18	2	70	0	0	0	0	0	
PHF		0.90	0.82	0.50	0.91	0.67	0.94			0.93	0.74		0.89	0.88	0.85						0.94
Heavy Vehicles %	0%	1%	0%			0%	0%	0%			0%	0%	0%			0%	0%	0%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		18	6		0		0	0		



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 10
 Job Number: R006524.0426
 Date: 10/18/2016
 Page No: 2

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Sturbridge Dr Northbound					Private Driveway Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
4:30 PM	0	2	1	0	3	0	1	0	0	1	0	0	1	0	1	0	0	0	0	0	5
4:45 PM	0	1	0	0	1	0	1	0	0	1	0	0	0	2	2	0	0	0	0	0	4
Total	0	3	1	0	4	0	2	0	0	2	0	0	1	2	3	0	0	0	0	0	9
5:00 PM	0	6	0	0	6	0	1	0	0	1	0	0	0	1	1	0	0	0	0	0	8
5:15 PM	0	1	0	0	1	0	1	0	0	1	0	0	0	1	1	0	0	0	0	0	3
5:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	3
5:45 PM	0	1	0	0	1	0	1	0	0	1	0	0	0	1	1	0	0	0	0	0	3
Total	0	9	0	0	9	0	3	0	0	3	0	0	0	5	5	0	0	0	0	0	17
Grand Total	0	12	1	0	13	0	5	0	0	5	0	0	1	7	8	0	0	0	0	0	26
Apprch %	0.0	92.3	7.7	0.0		0.0	100.0	0.0	0.0		0.0	0.0	12.5	87.5		0.0	0.0	0.0	0.0	0.0	
Total %	0.0	46.2	3.8	0.0	50.0	0.0	19.2	0.0	0.0	19.2	0.0	0.0	3.8	26.9	30.8	0.0	0.0	0.0	0.0	0.0	
Overall Peak Hour Volume	0	9	0	0	9	0	3	0	0	3	0	0	0	6	6	0	0	0	0	0	18



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 10
 Job Number: R006524.0426
 Date: 10/18/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

U-Turn & RTOR

Start Time	Route 0039 Eastbound				Route 0039 Westbound				Sturbridge Dr Northbound				Private Driveway Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
4:30 PM	0		0	0	0		0	0	0		14	14	0		0	0	14
4:45 PM	0		0	0	0		0	0	0		12	12	0		0	0	12
Total	0		0	0	0		0	0	0		26	26	0		0	0	26
5:00 PM	0		0	0	0		0	0	0		2	2	0		0	0	2
5:15 PM	0		0	0	0		0	0	0		3	3	0		0	0	3
5:30 PM	0		0	0	0		0	0	0		1	1	0		0	0	1
5:45 PM	0		0	0	0		0	0	0		1	1	0		0	0	1
Total	0		0	0	0		0	0	0		7	7	0		0	0	7
Grand Total	0		0	0	0		0	0	0		33	33	0		0	0	33
Apprch %									0.0	0.0	100.0	0.0					
Total %	0.0		0.0	0.0	0.0		0.0	0.0	0.0		100.0	100.0	0.0		0.0	0.0	
Overall Peak Hour Volume	0		0	0	0		0	0	0		18	18	0		0	0	18



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 11
 Job Number: R006524.0426
 Date: 10/13/2016
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

All Vehicles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Private Driveway Northbound					Oakhurst Blvd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	19	223	0	0	242	0	180	25	0	205	0	0	0	0	0	15	0	10	0	25	472
4:45 PM	19	240	0	1	260	0	158	19	0	177	0	0	0	0	0	23	0	15	1	39	476
Total	38	463	0	1	502	0	338	44	0	382	0	0	0	0	0	38	0	25	1	64	948
5:00 PM	20	234	0	0	254	0	196	26	0	222	0	0	0	0	0	33	0	13	0	46	522
5:15 PM	19	256	0	0	275	0	222	38	1	261	0	0	0	0	0	30	0	21	0	51	587
5:30 PM	11	246	0	0	257	0	195	34	0	229	0	0	0	0	0	28	0	18	0	46	532
5:45 PM	22	194	0	0	216	0	182	19	0	201	0	0	0	0	0	23	0	24	0	47	464
Total	72	930	0	0	1002	0	795	117	1	913	0	0	0	0	0	114	0	76	0	190	2105

Grand Total	110	1393	0	1	1504	0	1133	161	1	1295	0	0	0	0	0	152	0	101	1	254	3053
Apprch %	7.3	92.6	0.0	0.1		0.0	87.5	12.4	0.1		0.0	0.0	0.0	0.0	0.0	59.8	0.0	39.8	0.4		
Total %	3.6	45.6	0.0	0.0	49.3	0.0	37.1	5.3	0.0	42.4	0.0	0.0	0.0	0.0	0.0	5.0	0.0	3.3	0.0	8.3	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Private Driveway Northbound					Oakhurst Blvd Southbound					Int. Total				
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total					
Peak Hour From	4:45 PM to 5:45 PM																								
Volume	69	976	0	1	1046	0	771	117	1	889	0	0	0	2	2	114	0	67	2	183	2120				
Percent	6.6	93.3	0.0	0.1		0.0	86.7	13.2	0.1		0.0	0.0	0.0	100.0		62.3	0.0	36.6	1.1						
5:15 PM Volume Peak Factor	19	256	0	0	275	0	222	38	1	261	0	0	0	0	0	30	0	21	0	51	587				
High Int. Volume PHF	5:15 PM					5:15 PM					5:00 PM					5:15 PM									
	19	256	0	0	275	0	222	38	1	261	0	0	0	1	1	30	0	21	0	51					
	0.86	0.95		0.25	0.95		0.87	0.77	0.25	0.85				0.50	0.50	0.86		0.80	0.50	0.90	0.90				
Heavy Vehicles %	0%	0%	0%			0%	1%	0%			0%	0%	0%			0%	0%	0%							
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes						
	0		0	0		0		3	0		0		0	2		0		44	1						



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 11
 Job Number: R006524.0426
 Date: 10/13/2016
 Page No: 2

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Private Driveway Northbound					Oakhurst Blvd Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
4:30 PM	0	5	0	0	5	0	1	1	0	2	0	0	0	0	0	0	0	0	1	1	8
4:45 PM	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	4
Total	0	5	0	0	5	0	5	1	0	6	0	0	0	0	0	0	0	0	1	1	12
5:00 PM	0	1	0	0	1	0	2	0	0	2	0	0	0	1	1	0	0	0	0	0	4
5:15 PM	0	2	0	0	2	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	3
5:30 PM	0	1	0	0	1	0	3	0	0	3	0	0	0	1	1	0	0	0	1	1	6
5:45 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Total	0	4	0	0	4	0	7	0	0	7	0	0	0	2	2	0	0	0	1	1	14
Grand Total	0	9	0	0	9	0	12	1	0	13	0	0	0	2	2	0	0	0	2	2	26
Apprch %	0.0	100.0	0.0	0.0		0.0	92.3	7.7	0.0		0.0	0.0	0.0	100.0		0.0	0.0	0.0	100.0		
Total %	0.0	34.6	0.0	0.0	34.6	0.0	46.2	3.8	0.0	50.0	0.0	0.0	0.0	7.7	7.7	0.0	0.0	0.0	7.7	7.7	
Overall Peak Hour Volume	0	4	0	0	4	0	10	0	0	10	0	0	0	2	2	0	0	0	1	1	17



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 11
 Job Number: R006524.0426
 Date: 10/13/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

U-Turn & RTOR

Start Time	Route 0039 Eastbound				Route 0039 Westbound				Private Driveway Northbound				Oakhurst Blvd Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
4:30 PM	0		0	0	0		0	0	0		0	0	0		3	3	3
4:45 PM	0		0	0	0		0	0	0		0	0	0		9	9	9
Total	0		0	0	0		0	0	0		0	0	0		12	12	12
5:00 PM	0		0	0	0		1	1	0		0	0	0		8	8	9
5:15 PM	0		0	0	0		2	2	0		0	0	0		12	12	14
5:30 PM	0		0	0	0		0	0	0		0	0	0		15	15	15
5:45 PM	0		0	0	0		0	0	0		0	0	0		11	11	11
Total	0		0	0	0		3	3	0		0	0	0		46	46	49
Grand Total	0		0	0	0		0	0	0		0	0	0		58	58	58
Aprrch %													0.0	0.0	100.0	0.0	
Total %	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		100.0	100.0	100.0
Overall Peak Hour Volume	0		0	0	0		3	3	0		0	0	0		44	44	47



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 12
 Job Number: R006524.0426
 Date: 10/5/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Crums Mill Rd Northbound					N/A Southbound					Int. Total	
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total		
4:30 PM	0	258	13	0	271	13	162	0	0	175	10	0	22	0	32	0	0	0	0	0	0	478
4:45 PM	0	264	16	0	280	15	202	0	0	217	8	0	36	0	44	0	0	0	0	0	0	541
Total	0	522	29	0	551	28	364	0	0	392	18	0	58	0	76	0	0	0	0	0	0	1019
5:00 PM	0	237	18	0	255	19	197	0	0	216	15	0	18	0	33	0	0	0	0	0	0	504
5:15 PM	0	234	14	0	248	14	201	0	0	215	6	0	18	0	24	0	0	0	0	0	0	487
5:30 PM	0	243	18	0	261	18	208	0	0	226	6	0	24	0	30	0	0	0	0	0	0	517
5:45 PM	0	211	7	0	218	18	192	0	0	210	4	0	20	0	24	0	0	0	0	0	0	452
Total	0	925	57	0	982	69	798	0	0	867	31	0	80	0	111	0	0	0	0	0	0	1960
Grand Total	0	1447	86	0	1533	97	1162	0	0	1259	49	0	138	0	187	0	0	0	0	0	0	2979
Apprch %	0.0	94.4	5.6	0.0		7.7	92.3	0.0	0.0		26.2	0.0	73.8	0.0								
Total %	0.0	48.6	2.9	0.0	51.5	3.3	39.0	0.0	0.0	42.3	1.6	0.0	4.6	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Crums Mill Rd Northbound					N/A Southbound					Int. Total	
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total		
Peak Hour From	4:45 PM					to					5:45 PM											
Volume	0	978	66	0	1044	66	808	0	0	874	35	0	96	1	132	0	0	0	0	0	0	2050
Percent	0.0	93.7	6.3	0.0		7.6	92.4	0.0	0.0		26.5	0.0	72.7	0.8								
4:45 PM																						
Volume	0	264	16	0	280	15	202	0	0	217	8	0	36	0	44	0	0	0	0	0	0	541
Peak Factor																						
High Int.	4:45 PM					5:30 PM					4:45 PM					4:30 PM						
Volume	0	264	16	0	280	18	208	0	0	226	8	0	36	0	44	0	0	0	0	0	0	0
PHF	0.93					0.92					0.93					0.95						
Heavy Vehicles %	0%	1%	2%			2%	1%	0%			0%	0%	0%			0%	0%	0%				
Misc.	U-Turn		RTOR		Bikes	U-Turn		RTOR		Bikes	U-Turn		RTOR		Bikes	U-Turn		RTOR		Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0			



AN EMPLOYEE-OWNED COMPANY

Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
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Intersection #: 12
 Job Number: R006524.0426
 Date: 10/5/2016
 Page No: 2

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Crums Mill Rd Northbound					N/A Southbound					Int. Total	
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total		
4:30 PM	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
4:45 PM	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	0	7	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
5:00 PM	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4
5:15 PM	0	3	0	0	3	1	1	0	0	2	0	0	0	1	1	0	0	0	0	0	0	6
5:30 PM	0	0	1	0	1	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	3	1	0	4	1	7	0	0	8	0	0	0	1	1	0	0	0	0	0	0	13
Grand Total	0	10	1	0	11	1	7	0	0	8	0	0	0	1	1	0	0	0	0	0	0	20
Apprch %	0.0	90.9	9.1	0.0		12.5	87.5	0.0	0.0		0.0	0.0	0.0	100.0		0.0	0.0	0.0	0.0	0.0		
Total %	0.0	50.0	5.0	0.0	55.0	5.0	35.0	0.0	0.0	40.0	0.0	0.0	0.0	5.0	5.0	0.0	0.0	0.0	0.0	0.0		
Overall Peak Hour Volume	0	6	1	0	7	1	7	0	0	8	0	0	0	1	1	0	0	0	0	0	0	16



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 13
 Job Number: R006524.0426
 Date: 10/6/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

All Vehicles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Versailles Rd Northbound					Dover Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	29	236	1	0	266	3	173	4	0	180	2	0	2	0	4	4	0	12	0	16	466
4:45 PM	25	266	1	0	292	3	186	3	0	192	1	0	1	0	2	4	0	12	0	16	502
Total	54	502	2	0	558	6	359	7	0	372	3	0	3	0	6	8	0	24	0	32	968
5:00 PM	32	210	3	0	245	4	208	2	0	214	0	0	4	0	4	7	0	14	0	21	484
5:15 PM	34	251	4	0	289	6	207	9	0	222	6	2	3	0	11	9	0	15	0	24	546
5:30 PM	33	220	3	0	256	5	191	5	0	201	0	0	4	1	5	8	0	8	0	16	478
5:45 PM	30	193	3	0	226	1	230	5	0	236	4	0	1	0	5	8	0	12	0	20	487
Total	129	874	13	0	1016	16	836	21	0	873	10	2	12	1	25	32	0	49	0	81	1995

Grand Total	183	1376	15	0	1574	22	1195	28	0	1245	13	2	15	1	31	40	0	73	0	113	2963
Apprch %	11.6	87.4	1.0	0.0		1.8	96.0	2.2	0.0		41.9	6.5	48.4	3.2		35.4	0.0	64.6	0.0		
Total %	6.2	46.4	0.5	0.0	53.1	0.7	40.3	0.9	0.0	42.0	0.4	0.1	0.5	0.0	1.0	1.3	0.0	2.5	0.0	3.8	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Versailles Rd Northbound					Dover Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	4:45 PM to 5:45 PM																				
Volume	124	947	11	0	1082	18	792	19	0	829	7	2	12	2	23	28	0	49	1	78	2012
Percent	11.5	87.5	1.0	0.0		2.2	95.5	2.3	0.0		30.4	8.7	52.2	8.7		35.9	0.0	62.8	1.3		
5:15 PM Volume Peak Factor	34	251	4	0	289	6	207	9	0	222	6	2	3	0	11	9	0	15	0	24	546
High Int. Volume	4:45 PM					5:45 PM					5:15 PM					5:15 PM					
PHF	0.91	0.89	0.69	0.93		0.75	0.95	0.53	0.93		0.29	0.25	0.75	0.25	0.52	0.78	0.82	0.25	0.81		0.92
Heavy Vehicles %	0%	0%	0%			0%	1%	0%			0%	0%	0%			0%	0%	2%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		3	1		0		26	1		



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 13
 Job Number: R006524.0426
 Date: 10/6/2016
 Page No: 2

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Versailles Rd Northbound					Dover Rd Southbound					Int. Total	
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total		
4:30 PM	0	4	0	0	4	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	6
4:45 PM	0	1	0	0	1	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	5
Total	0	5	0	0	5	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	11
5:00 PM	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	1	1	4
5:15 PM	0	1	0	0	1	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3
5:30 PM	0	0	0	0	0	0	2	0	0	2	0	0	0	1	1	0	0	1	0	1	0	4
5:45 PM	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	2	0	0	2	0	8	0	0	8	0	0	0	1	1	0	0	1	1	2	13	
Grand Total	0	7	0	0	7	0	14	0	0	14	0	0	0	1	1	0	0	1	1	2	24	
Apprch %	0.0	100.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	100.0		0.0	0.0	50.0	50.0			
Total %	0.0	29.2	0.0	0.0	29.2	0.0	58.3	0.0	0.0	58.3	0.0	0.0	0.0	4.2	4.2	0.0	0.0	4.2	4.2	8.3		
Overall Peak Hour Volume	0	2	0	0	2	0	11	0	0	11	0	0	0	1	1	0	0	1	1	2	16	



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 (717) 564-1121

Intersection #: 13
 Job Number: R006524.0426
 Date: 10/6/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

U-Turn & RTOR

Start Time	Route 0039 Eastbound				Route 0039 Westbound				Versailles Rd Northbound				Dover Rd Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
4:30 PM	0		0	0	0		0	0	0		0	0	0		10	10	10
4:45 PM	0		0	0	0		0	0	0		0	0	0		5	5	5
Total	0		0	0	0		0	0	0		0	0	0		15	15	15
5:00 PM	0		0	0	0		0	0	0		1	1	0		7	7	8
5:15 PM	0		0	0	0		0	0	0		0	0	0		11	11	11
5:30 PM	0		0	0	0		0	0	0		2	2	0		3	3	5
5:45 PM	0		0	0	0		0	0	0		0	0	0		6	6	6
Total	0		0	0	0		0	0	0		3	3	0		27	27	30
Grand Total	0		0	0	0		0	0	0		3	3	0		42	42	45
Aprrch %									0.0	0.0	100.0	0.0	0.0	0.0	100.0	0.0	
Total %	0.0		0.0	0.0	0.0		0.0	0.0	0.0		6.7	6.7	0.0		93.3	93.3	
Overall Peak Hour Volume	0		0	0	0		0	0	0		3	3	0		26	26	29



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 14
 Job Number: R006524.0426
 Date: 10/5/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Ringneck Dr Northbound					Forest Hills Dr Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	6	240	6	0	252	15	143	9	0	167	2	0	6	0	8	11	1	10	0	22	449
4:45 PM	12	241	14	0	267	7	175	12	0	194	7	0	5	0	12	11	0	15	0	26	499
Total	18	481	20	0	519	22	318	21	0	361	9	0	11	0	20	22	1	25	0	48	948
5:00 PM	6	234	9	0	249	6	179	10	0	195	5	0	5	0	10	14	1	20	0	35	489
5:15 PM	6	225	6	0	237	11	174	15	0	200	2	0	11	0	13	19	0	9	0	28	478
5:30 PM	8	218	12	0	238	6	170	8	0	184	4	0	4	0	8	15	0	8	0	23	453
5:45 PM	7	213	9	0	229	16	172	21	0	209	4	0	6	0	10	11	1	9	0	21	469
Total	27	890	36	0	953	39	695	54	0	788	15	0	26	0	41	59	2	46	0	107	1889
Grand Total	45	1371	56	0	1472	61	1013	75	0	1149	24	0	37	0	61	81	3	71	0	155	2837
Apprch %	3.1	93.1	3.8	0.0		5.3	88.2	6.5	0.0		39.3	0.0	60.7	0.0		52.3	1.9	45.8	0.0		
Total %	1.6	48.3	2.0	0.0	51.9	2.2	35.7	2.6	0.0	40.5	0.8	0.0	1.3	0.0	2.2	2.9	0.1	2.5	0.0	5.5	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Ringneck Dr Northbound					Forest Hills Dr Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	4:45 PM					to 5:45 PM															
Volume	32	918	41	0	991	30	698	45	0	773	18	0	25	0	43	59	1	52	0	112	1919
Percent	3.2	92.6	4.1	0.0		3.9	90.3	5.8	0.0		41.9	0.0	58.1	0.0		52.7	0.9	46.4	0.0		
4:45 PM																					
Volume	12	241	14	0	267	7	175	12	0	194	7	0	5	0	12	11	0	15	0	26	499
Peak Factor																					
High Int.	4:45 PM					5:45 PM					5:15 PM					5:00 PM					
Volume	12	241	14	0	267	16	172	21	0	209	2	0	11	0	13	14	1	20	0	35	
PHF	0.67	0.95	0.73		0.93	0.68	0.97	0.75		0.97	0.64		0.57		0.83	0.78	0.25	0.65		0.80	0.96
Heavy Vehicles %	0%	1%	0%			3%	0%	0%			6%	0%	0%			0%	0%	0%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



AN EMPLOYEE-OWNED COMPANY

Route 0039 Land Use and Traffic Study
PM PEAK HOUR

Herbert, Rowland & Grubic, Inc.
369 East Park Drive
Harrisburg, PA 17111
(717) 564-1121

Intersection #: 14
Job Number: R006524.0426
Date: 10/5/2016
Page No: 2

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Ringneck Dr Northbound					Forest Hills Dr Southbound					Int. Total	
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total		
4:30 PM	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
4:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
5:00 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:15 PM	0	4	0	0	4	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	6
5:30 PM	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
5:45 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	5	0	0	5	1	3	0	0	4	1	0	0	0	1	0	0	0	0	0	0	10
Grand Total	0	11	0	0	11	1	3	0	0	4	1	0	0	0	1	0	0	0	0	0	0	16
Apprch %	0.0	100.0	0.0	0.0		25.0	75.0	0.0	0.0		100.0	0.0	0.0	0.0								
Total %	0.0	68.8	0.0	0.0	68.8	6.3	18.8	0.0	0.0	25.0	6.3	0.0	0.0	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	
Overall Peak Hour Volume	0	6	0	0	6	1	2	0	0	3	1	0	0	0	1	0	0	0	0	0	0	10



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 15
 Job Number: R006524.0426
 Date: 10/27/2016
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

All Vehicles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Colonial Rd (SR 3017) Northbound					Colonial Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	17	166	54	6	243	23	113	28	0	164	53	36	46	0	135	25	28	12	0	65	607
4:45 PM	44	148	43	0	235	24	132	35	0	191	69	66	50	0	185	36	28	14	0	78	689
Total	61	314	97	6	478	47	245	63	0	355	122	102	96	0	320	61	56	26	0	143	1296
5:00 PM	39	181	46	0	266	30	123	47	0	200	55	42	39	0	136	36	21	23	0	80	682
5:15 PM	31	163	54	0	248	32	137	55	0	224	61	48	42	0	151	28	23	20	0	71	694
5:30 PM	39	179	58	0	276	22	125	48	0	195	51	46	37	0	134	34	23	17	0	74	679
5:45 PM	28	146	55	0	229	35	104	46	0	185	60	59	51	0	170	32	28	19	0	79	663
Total	137	669	213	0	1019	119	489	196	0	804	227	195	169	0	591	130	95	79	0	304	2718
Grand Total	198	983	310	6	1497	166	734	259	0	1159	349	297	265	0	911	191	151	105	0	447	4014
Apprch %	13.2	65.7	20.7	0.4		14.3	63.3	22.3	0.0		38.3	32.6	29.1	0.0		42.7	33.8	23.5	0.0		
Total %	4.9	24.5	7.7	0.1	37.3	4.1	18.3	6.5	0.0	28.9	8.7	7.4	6.6	0.0	22.7	4.8	3.8	2.6	0.0	11.1	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Colonial Rd (SR 3017) Northbound					Colonial Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	4:45 PM to 5:45 PM																				
Volume	153	671	201	0	1025	108	517	185	0	810	236	202	168	0	606	134	95	74	0	303	2744
Percent	14.9	65.5	19.6	0.0		13.3	63.8	22.8	0.0		38.9	33.3	27.7	0.0		44.2	31.4	24.4	0.0		
5:15 PM																					
Volume Peak	31	163	54	0	248	32	137	55	0	224	61	48	42	0	151	28	23	20	0	71	694
Factor																					
High Int.	5:30 PM					5:15 PM					4:45 PM					5:00 PM					
Volume	39	179	58	0	276	32	137	55	0	224	69	66	50	0	185	36	21	23	0	80	
PHF	0.87	0.93	0.87	0.93		0.84	0.94	0.84	0.90		0.86	0.77	0.84	0.82		0.93	0.85	0.80	0.95		0.99
Heavy Vehicles %	0%	0%	0%			1%	1%	2%			0%	0%	1%			1%	1%	0%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 15
 Job Number: R006524.0426
 Date: 10/27/2016
 Page No: 2

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Colonial Rd (SR 3017) Northbound					Colonial Rd Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
4:30 PM	0	0	1	0	1	0	2	1	0	3	0	0	0	0	0	0	3	0	0	3	7
4:45 PM	0	0	0	0	0	1	2	2	0	5	0	0	0	0	0	1	1	0	0	2	7
Total	0	0	1	0	1	1	4	3	0	8	0	0	0	0	0	1	4	0	0	5	14
5:00 PM	0	0	0	0	0	0	2	0	0	2	0	0	1	0	1	0	0	0	0	0	3
5:15 PM	0	1	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
5:30 PM	0	2	0	0	2	0	2	1	0	3	0	0	0	0	0	0	0	0	0	0	5
5:45 PM	0	0	0	0	0	1	1	0	0	2	0	0	1	0	1	0	0	0	0	0	3
Total	0	3	0	0	3	1	5	2	0	8	0	0	2	0	2	0	0	0	0	0	13
Grand Total	0	3	1	0	4	2	9	5	0	16	0	0	2	0	2	1	4	0	0	5	27
Apprch %	0.0	75.0	25.0	0.0		12.5	56.3	31.3	0.0		0.0	0.0	100.0	0.0		20.0	80.0	0.0	0.0		
Total %	0.0	11.1	3.7	0.0	14.8	7.4	33.3	18.5	0.0	59.3	0.0	0.0	7.4	0.0	7.4	3.7	14.8	0.0	0.0	18.5	
Overall Peak Hour Volume	0	3	0	0	3	1	6	4	0	11	0	0	1	0	1	1	1	0	0	2	17



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 15
 Job Number: R006524.0426
 Date: 10/27/2016
 Page No: 3

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Start Time	Route 0039 Eastbound				Route 0039 Westbound				Colonial Rd (SR 3017) Northbound				Colonial Rd Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
4:30 PM	0		0	0	0		0	0	0		2	2	0		0	0	2
4:45 PM	0		0	0	0		0	0	0		0	0	0		0	0	0
Total	0		0	0	0		0	0	0		2	2	0		0	0	2
5:00 PM	0		0	0	0		0	0	0		0	0	0		0	0	0
5:15 PM	0		0	0	0		0	0	0		0	0	0		0	0	0
5:30 PM	0		0	0	0		0	0	0		0	0	0		0	0	0
5:45 PM	0		0	0	0		0	0	0		0	0	0		0	0	0
Total	0		0	0	0		0	0	0		0	0	0		0	0	0
Grand Total	0		0	0	0		0	0	0		2	2	0		0	0	2
Apprch %									0.0	0.0	100.0	0.0					
Total %	0.0		0.0	0.0	0.0		0.0	0.0	0.0		100.0	100.0	0.0		0.0	0.0	
Overall Peak Hour Volume	0		0	0	0		0	0	0		0	0	0		0	0	0



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 16
 Job Number: R006524.0426
 Date: 9/28/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Woodview Rd Northbound					Patton Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	18	188	3	0	209	1	136	10	0	147	3	0	3	0	6	15	0	10	0	25	387
4:45 PM	23	179	5	0	207	0	145	15	0	160	3	4	0	0	7	15	3	15	0	33	407
Total	41	367	8	0	416	1	281	25	0	307	6	4	3	0	13	30	3	25	0	58	794
5:00 PM	48	190	2	0	240	2	173	10	0	185	6	2	2	0	10	16	0	11	0	27	462
5:15 PM	27	189	4	0	220	1	170	13	0	184	4	2	1	0	7	16	2	23	0	41	452
5:30 PM	34	161	7	0	202	2	179	13	1	195	8	4	0	0	12	19	0	22	0	41	450
5:45 PM	26	178	5	0	209	1	211	8	0	220	0	0	1	0	1	16	1	24	1	42	472
Total	135	718	18	0	871	6	733	44	1	784	18	8	4	0	30	67	3	80	1	151	1836

Grand Total	176	1085	26	0	1287	7	1014	69	1	1091	24	12	7	0	43	97	6	105	2	210	2631
Apprch %	13.7	84.3	2.0	0.0		0.6	92.9	6.3	0.1		55.8	27.9	16.3	0.0		46.2	2.9	50.0	1.0		
Total %	6.7	41.2	1.0	0.0	48.9	0.3	38.5	2.6	0.0	41.5	0.9	0.5	0.3	0.0	1.6	3.7	0.2	4.0	0.1	8.0	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Woodview Rd Northbound					Patton Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	5:00 PM to 6:00 PM																				
Volume	135	718	18	0	871	6	733	44	1	784	18	8	4	0	30	67	3	80	2	152	1837
Percent	15.5	82.4	2.1	0.0		0.8	93.5	5.6	0.1		60.0	26.7	13.3	0.0		44.1	2.0	52.6	1.3		
5:45 PM Volume Peak Factor	26	178	5	0	209	1	211	8	0	220	0	0	1	0	1	16	1	24	2	43	473
High Int. Volume PHF	5:00 PM 48	190	2	0	240	5:45 PM 1	211	8	0	220	5:30 PM 8	4	0	0	12	5:45 PM 16	1	24	2	43	
Heavy Vehicles %	0.70	0.94	0.64	0.91	0.75	0.87	0.85	0.25	0.89	0.56	0.50	0.50		0.63	0.88	0.38	0.83	0.25	0.88	0.97	
Misc.	1%	0%	0%		17%	1%	0%			6%	0%	0%			0%	0%	1%				
	U-Turn		RTOR	Bikes	U-Turn		RTOR	Bikes	U-Turn		RTOR	Bikes	U-Turn		RTOR	Bikes	U-Turn		RTOR	Bikes	
	0		1	0	0		0	0	0		0	0	0		0		2		0		



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
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Intersection #: 16
 Job Number: R006524.0426
 Date: 9/28/2016
 Page No: 2

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Woodview Rd Northbound					Patton Rd Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
4:30 PM	0	1	0	0	1	0	1	1	0	2	0	0	0	0	0	1	0	1	0	2	5
4:45 PM	1	2	0	0	3	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	4
Total	1	3	0	0	4	0	1	1	0	2	0	1	0	0	1	1	0	1	0	2	9
5:00 PM	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
5:15 PM	1	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	1	0	1	3
5:30 PM	0	0	0	0	0	1	2	0	0	3	1	0	0	0	1	0	0	0	0	0	4
5:45 PM	0	1	0	0	1	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	6
Total	1	2	0	0	3	1	9	0	0	10	1	0	0	0	1	0	0	1	0	1	15
Grand Total	2	5	0	0	7	1	10	1	0	12	1	1	0	0	2	1	0	2	0	3	24
Apprch %	28.6	71.4	0.0	0.0		8.3	83.3	8.3	0.0		50.0	50.0	0.0	0.0		33.3	0.0	66.7	0.0		
Total %	8.3	20.8	0.0	0.0	29.2	4.2	41.7	4.2	0.0	50.0	4.2	4.2	0.0	0.0	8.3	4.2	0.0	8.3	0.0	12.5	
Overall Peak Hour Volume	1	2	0	0	3	1	9	0	0	10	1	0	0	0	1	0	0	1	0	1	15



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 16
 Job Number: R006524.0426
 Date: 9/28/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

U-Turn & RTOR

Start Time	Route 0039 Eastbound				Route 0039 Westbound				Woodview Rd Northbound				Patton Rd Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
4:30 PM	0		1	1	0		1	1	0		2	2	0		2	2	6
4:45 PM	0		0	0	0		0	0	0		0	0	0		0	0	0
Total	0		1	1	0		1	1	0		2	2	0		2	2	6
5:00 PM	0		0	0	0		0	0	0		0	0	0		0	0	0
5:15 PM	0		1	1	0		0	0	0		0	0	0		0	0	1
5:30 PM	0		0	0	0		0	0	0		0	0	0		1	1	1
5:45 PM	0		0	0	0		0	0	0		0	0	0		1	1	1
Total	0		1	1	0		0	0	0		0	0	0		2	2	3
Grand Total	0		2	2	0		0	0	0		2	2	0		4	4	8
Apprch %	0.0	0.0	100.0	0.0					0.0	0.0	100.0	0.0	0.0	0.0	100.0	0.0	
Total %	0.0		25.0	25.0	0.0		0.0	0.0	0.0		25.0	25.0	0.0		50.0	50.0	
Overall Peak Hour Volume	0		1	1	0		0	0	0		0	0	0		2	2	3



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 17
 Job Number: R006524.0426
 Date: 6/7/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

All Vehicles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Pennsylvania Ave Northbound					Blue Mountain Pkwy Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	20	140	2	0	162	0	114	12	0	126	2	0	3	0	5	20	0	10	0	30	323
4:45 PM	21	169	2	0	192	1	99	9	0	109	1	1	0	0	2	18	0	10	1	29	332
Total	41	309	4	0	354	1	213	21	0	235	3	1	3	0	7	38	0	20	1	59	655
5:00 PM	16	173	0	0	189	0	115	12	0	127	0	2	0	0	2	23	1	6	1	31	349
5:15 PM	32	161	0	0	193	0	122	9	0	131	0	2	0	0	2	22	2	4	0	28	354
5:30 PM	18	170	2	0	190	0	117	5	0	122	2	0	1	0	3	23	0	14	0	37	352
5:45 PM	22	190	0	0	212	0	82	3	0	85	0	0	0	0	0	36	0	11	0	47	344
Total	88	694	2	0	784	0	436	29	0	465	2	4	1	0	7	104	3	35	1	143	1399
Grand Total	129	1003	6	0	1138	1	649	50	0	700	5	5	4	0	14	142	3	55	2	202	2054
Apprch %	11.3	88.1	0.5	0.0		0.1	92.7	7.1	0.0		35.7	35.7	28.6	0.0		70.3	1.5	27.2	1.0		
Total %	6.3	48.8	0.3	0.0	55.4	0.0	31.6	2.4	0.0	34.1	0.2	0.2	0.2	0.0	0.7	6.9	0.1	2.7	0.1	9.8	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Pennsylvania Ave Northbound					Blue Mountain Pkwy Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	5:00 PM					to					6:00 PM										
Volume	88	694	2	1	785	0	436	29	0	465	2	4	1	0	7	104	3	35	3	145	1402
Percent	11.2	88.4	0.3	0.1		0.0	93.8	6.2	0.0		28.6	57.1	14.3	0.0		71.7	2.1	24.1	2.1		
5:15 PM																					
Volume	32	161	0	0	193	0	122	9	0	131	0	2	0	0	2	22	2	4	0	28	354
Peak Factor																					
High Int.	5:45 PM					5:15 PM					4:30 PM					5:45 PM					
Volume	22	190	0	0	212	0	122	9	0	131	2	0	3	0	5	36	0	11	0	47	
PHF	0.69	0.91	0.25	0.25	0.93	0	0.89	0.60	0.89	0.89	0.25	0.50	0.25	0.58	0.58	0.72	0.38	0.63	0.38	0.77	0.99
Heavy Vehicles %	0%	1%	0%			0%	1%	7%			0%	0%	0%			0%	0%	3%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



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Intersection #: 17
 Job Number: R006524.0426
 Date: 6/7/2016
 Page No: 2

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Pennsylvania Ave Northbound					Blue Mountain Pkwy Southbound					Int. Total	
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total		
4:30 PM	0	2	0	0	2	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	1	4
4:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	3
Total	0	3	0	0	3	0	0	0	0	0	0	0	1	1	2	1	0	0	1	2	7	
5:00 PM	0	1	0	1	2	0	1	2	0	3	0	0	0	0	0	0	0	1	1	2	7	
5:15 PM	0	1	0	0	1	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3
5:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	
5:45 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	5	0	1	6	0	3	2	0	5	0	0	0	0	0	0	0	1	2	3	14	
Grand Total	0	8	0	1	9	0	3	2	0	5	0	0	1	1	2	1	0	1	3	5	21	
Apprch %	0.0	88.9	0.0	11.1		0.0	60.0	40.0	0.0		0.0	0.0	50.0	50.0		20.0	0.0	20.0	60.0			
Total %	0.0	38.1	0.0	4.8	42.9	0.0	14.3	9.5	0.0	23.8	0.0	0.0	4.8	4.8	9.5	4.8	0.0	4.8	14.3	23.8		
Overall Peak Hour Volume	0	5	0	1	6	0	3	2	0	5	0	0	0	0	0	0	0	1	2	3	14	



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 (717) 564-1121

Intersection #: 18
 Job Number: R006524.0426
 Date: 6/8/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Mountain Rd (SR 3019) Northbound					Mountain Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	0	75	68	0	143	30	65	1	1	97	67	1	28	0	96	4	4	2	0	10	346
4:45 PM	1	92	83	1	177	18	64	4	0	86	74	5	34	0	113	4	4	6	0	14	390
Total	1	167	151	1	320	48	129	5	1	183	141	6	62	0	209	8	8	8	0	24	736
5:00 PM	2	95	104	0	201	22	71	0	0	93	61	4	52	0	117	1	7	0	0	8	419
5:15 PM	2	103	88	0	193	22	59	3	0	84	82	4	28	1	115	4	6	0	1	11	403
5:30 PM	5	90	101	0	196	31	61	2	1	95	87	3	37	0	127	1	10	3	1	15	433
5:45 PM	2	84	91	0	177	12	56	1	0	69	71	4	38	0	113	0	2	1	1	4	363
Total	11	372	384	0	767	87	247	6	1	341	301	15	155	1	472	6	25	4	3	38	1618
Grand Total	12	539	535	1	1087	135	376	11	2	524	442	21	217	1	681	14	33	12	3	62	2354
Apprch %	1.1	49.6	49.2	0.1		25.8	71.8	2.1	0.4		64.9	3.1	31.9	0.1		22.6	53.2	19.4	4.8		
Total %	0.5	22.9	22.7	0.0	46.2	5.7	16.0	0.5	0.1	22.3	18.8	0.9	9.2	0.0	28.9	0.6	1.4	0.5	0.1	2.6	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Mountain Rd (SR 3019) Northbound					Mountain Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	4:45 PM					to					5:45 PM										
Volume	10	380	376	1	767	93	255	9	1	358	304	16	151	1	472	10	27	9	2	48	1645
Percent	1.3	49.5	49.0	0.1		26.0	71.2	2.5	0.3		64.4	3.4	32.0	0.2		20.8	56.3	18.8	4.2		
5:30 PM																					
Volume	5	90	101	0	196	31	61	2	1	95	87	3	37	0	127	1	10	3	1	15	433
Peak Factor																					
High Int.	5:00 PM					4:30 PM					5:30 PM					5:30 PM					
Volume	2	95	104	0	201	30	65	1	1	97	87	3	37	0	127	1	10	3	1	15	
PHF	0.50	0.92	0.90	0.25	0.95	0.75	0.90	0.56	0.25	0.94	0.87	0.80	0.73	0.25	0.93	0.63	0.68	0.38	0.50	0.80	0.95
Heavy Vehicles %	0%	0%	0%			4%	0%	0%			0%	0%	0%			0%	0%	0%			
Misc.	U-Turn		RTOR		Bikes	U-Turn		RTOR		Bikes	U-Turn		RTOR		Bikes	U-Turn		RTOR		Bikes	
	0		0	0		0		0	0		0		0	0		0		0	0		



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 369 East Park Drive
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Intersection #: 18
 Job Number: R006524.0426
 Date: 6/8/2016
 Page No: 2

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Mountain Rd (SR 3019) Northbound					Mountain Rd Southbound					Int. Total					
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total						
4:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0	0	0	0	0	0	0	0	0	0	2
4:45 PM	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	0	0	0	0	0	3	0	0	0	3	1	0	1	0	2	0	0	0	0	0	0	0	0	0	0	5
5:00 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Grand Total	0	0	0	0	0	4	1	0	0	5	1	0	1	0	2	0	0	0	0	0	0	0	0	0	0	7
Apprch %						80.0	20.0	0.0	0.0		50.0	0.0	50.0	0.0												
Total %	0.0	0.0	0.0	0.0	0.0	57.1	14.3	0.0	0.0	71.4	14.3	0.0	14.3	0.0	28.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Overall Peak Hour Volume	0	0	0	0	0	4	1	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5



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 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 19
 Job Number: R006524.0426
 Date: 6/8/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

All Vehicles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Balthaser St Northbound					N/A Southbound					Int. Total	
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total		
4:15 PM	0	115	13	0	128	2	67	0	0	69	8	0	7	2	17	0	0	0	0	0	0	214
4:30 PM	0	101	10	0	111	3	86	0	0	89	6	0	6	0	12	0	0	0	0	0	0	212
4:45 PM	0	119	11	0	130	4	87	0	0	91	8	0	7	0	15	0	0	0	0	0	0	236
Total	0	335	34	0	369	9	240	0	0	249	22	0	20	2	44	0	0	0	0	0	0	662
5:00 PM	0	130	16	0	146	5	98	0	0	103	6	0	4	0	10	0	0	0	0	0	0	259
5:15 PM	0	113	13	0	126	4	77	0	1	82	10	0	0	1	11	0	0	0	0	0	0	219
5:30 PM	0	102	16	0	118	6	90	0	0	96	8	0	4	0	12	0	0	0	0	0	0	226
Total	0	345	45	0	390	15	265	0	1	281	24	0	8	1	33	0	0	0	0	0	0	704
Grand Total	0	680	79	0	759	24	505	0	1	530	46	0	28	3	77	0	0	0	0	0	0	1366
Apprch %	0.0	89.6	10.4	0.0		4.5	95.3	0.0	0.2		59.7	0.0	36.4	3.9		0.0	0.0	0.0	0.0	0.0	0.0	
Total %	0.0	49.8	5.8	0.0	55.6	1.8	37.0	0.0	0.1	38.8	3.4	0.0	2.0	0.2	5.6	0.0	0.0	0.0	0.0	0.0	0.0	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Balthaser St Northbound					N/A Southbound					Int. Total	
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total		
Peak Hour From	4:45 PM to 5:45 PM																					
Volume	0	464	56	0	520	19	352	0	1	372	32	0	15	1	48	0	0	0	0	0	0	940
Percent	0.0	89.2	10.8	0.0		5.1	94.6	0.0	0.3		66.7	0.0	31.3	2.1								
5:00 PM																						
Volume Peak Factor	0	130	16	0	146	5	98	0	0	103	6	0	4	0	10	0	0	0	0	0	0	259
High Int. Volume	5:00 PM					5:00 PM					4:15 PM					4:15 PM						
PHF	0	0.89	0.88	0	0.89	0.79	0.90	0	0.25	0.90	0.80	0	0.54	0.25	0.80	0	0	0	0	0	0	0.91
Heavy Vehicles %	0%	1%	0%			0%	1%	0%			6%	0%	0%			0%	0%	0%				
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes			
	0		0	0		0		0	0		0		0	0		0		0	0			



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Intersection #: 19
 Job Number: R006524.0426
 Date: 6/8/2016
 Page No: 2

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Balthaser St Northbound					N/A Southbound					Int. Total	
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total		
4:15 PM	0	4	1	0	5	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	7
4:30 PM	0	4	1	0	5	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	6
4:45 PM	0	3	0	0	3	0	2	0	0	2	1	0	0	0	1	0	0	0	0	0	0	6
Total	0	11	2	0	13	0	4	0	0	4	2	0	0	0	2	0	0	0	0	0	0	19
5:00 PM	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
5:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1
5:30 PM	0	2	0	0	2	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3
Total	0	3	0	0	3	0	2	0	0	2	1	0	0	0	1	0	0	0	0	0	0	6
Grand Total	0	14	2	0	16	0	6	0	0	6	3	0	0	0	3	0	0	0	0	0	0	25
Apprch %	0.0	87.5	12.5	0.0		0.0	100.0	0.0	0.0		100.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total %	0.0	56.0	8.0	0.0	64.0	0.0	24.0	0.0	0.0	24.0	12.0	0.0	0.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	
Overall Peak Hour Volume	0	6	0	0	6	0	4	0	0	4	2	0	0	0	2	0	0	0	0	0	0	12



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 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 20
 Job Number: R006524.0426
 Date: 6/8/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Piketown Rd Northbound					Piketown Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	15	60	16	0	91	7	67	3	1	78	6	10	9	0	25	0	9	9	1	19	213
4:45 PM	26	61	23	0	110	5	63	2	0	70	13	12	9	0	34	2	7	13	0	22	236
Total	41	121	39	0	201	12	130	5	1	148	19	22	18	0	59	2	16	22	1	41	449
5:00 PM	24	86	19	0	129	4	64	5	0	73	13	30	7	0	50	1	7	14	0	22	274
5:15 PM	11	75	17	0	103	8	58	2	0	68	10	22	7	0	39	0	14	9	0	23	233
5:30 PM	17	66	15	0	98	13	46	3	0	62	19	14	5	0	38	2	8	28	0	38	236
5:45 PM	26	57	23	0	106	7	52	4	0	63	12	22	13	0	47	0	12	17	0	29	245
Total	78	284	74	0	436	32	220	14	0	266	54	88	32	0	174	3	41	68	0	112	988
Grand Total	119	405	113	0	637	44	350	19	2	415	73	110	50	0	233	5	57	90	1	153	1438
Apprch %	18.7	63.6	17.7	0.0		10.6	84.3	4.6	0.5		31.3	47.2	21.5	0.0		3.3	37.3	58.8	0.7		
Total %	8.3	28.2	7.9	0.0	44.3	3.1	24.3	1.3	0.1	28.9	5.1	7.6	3.5	0.0	16.2	0.3	4.0	6.3	0.1	10.6	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Piketown Rd Northbound					Piketown Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	5:00 PM to 6:00 PM																				
Volume	78	284	74	0	436	32	220	14	0	266	54	88	32	0	174	3	41	68	0	112	988
Percent	17.9	65.1	17.0	0.0		12.0	82.7	5.3	0.0		31.0	50.6	18.4	0.0		2.7	36.6	60.7	0.0		
5:00 PM																					
Volume Peak	24	86	19	0	129	4	64	5	0	73	13	30	7	0	50	1	7	14	0	22	274
Factor																					
High Int.	5:00 PM					4:30 PM					5:00 PM					5:30 PM					
Volume	24	86	19	0	129	7	67	3	1	78	13	30	7	0	50	2	8	28	0	38	
PHF	0.75	0.83	0.80	0.84		0.62	0.86	0.70	0.91		0.71	0.73	0.62	0.87		0.38	0.73	0.61	0.74	0.90	
Heavy Vehicles %	3%	2%	0%			3%	0%	0%			4%	2%	3%			0%	0%	0%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		4	0		0		0	0		0		2	0		0		19	0		



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
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Intersection #: 20
 Job Number: R006524.0426
 Date: 6/8/2016
 Page No: 2

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Piketown Rd Northbound					Piketown Rd Southbound					Int. Total	
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total		
4:30 PM	1	2	1	0	4	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	6
4:45 PM	1	0	0	0	1	0	1	0	0	1	2	0	1	0	3	0	1	0	0	0	1	6
Total	2	2	1	0	5	0	1	0	0	1	2	0	1	0	3	0	3	0	0	0	3	12
5:00 PM	1	3	0	0	4	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	6
5:15 PM	0	1	0	0	1	1	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	3
5:30 PM	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5:45 PM	0	0	0	0	0	0	1	0	0	1	1	1	0	0	2	0	0	0	0	0	0	3
Total	2	5	0	0	7	1	1	0	0	2	2	2	1	0	5	0	0	0	0	0	0	14
Grand Total	4	7	1	0	12	1	2	0	0	3	4	2	2	0	8	0	3	0	0	3	26	
Apprch %	33.3	58.3	8.3	0.0		33.3	66.7	0.0	0.0		50.0	25.0	25.0	0.0		0.0	100.0	0.0	0.0			
Total %	15.4	26.9	3.8	0.0	46.2	3.8	7.7	0.0	0.0	11.5	15.4	7.7	7.7	0.0	30.8	0.0	11.5	0.0	0.0	11.5		
Overall Peak Hour Volume	2	5	0	0	7	1	1	0	0	2	2	2	1	0	5	0	0	0	0	0	0	14



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 20
 Job Number: R006524.0426
 Date: 6/8/2016
 Page No: 3

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

U-Turn & RTOR

Start Time	Route 0039 Eastbound				Route 0039 Westbound				Piketown Rd Northbound				Piketown Rd Southbound				Int. Total
	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	U-Turn		RTOR	App. Total	
4:30 PM	0		4	4	0		0	0	0		1	1	0		5	5	10
4:45 PM	0		0	0	0		0	0	0		4	4	0		11	11	15
Total	0		4	4	0		0	0	0		5	5	0		16	16	25
5:00 PM	0		2	2	0		0	0	0		0	0	0		9	9	11
5:15 PM	0		1	1	0		0	0	0		0	0	0		5	5	6
5:30 PM	0		0	0	0		0	0	0		0	0	0		4	4	4
5:45 PM	0		1	1	0		0	0	0		2	2	0		1	1	4
Total	0		4	4	0		0	0	0		2	2	0		19	19	25
Grand Total	0		8	8	0		1	1	0		7	7	0		35	35	51
Apprch %	0.0	0.0	100.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0	0.0	
Total %	0.0		15.7	15.7	0.0		2.0	2.0	0.0		13.7	13.7	0.0		68.6	68.6	
Overall Peak Hour Volume	0		4	4	0		0	0	0		2	2	0		19	19	25



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
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 (717) 564-1121

Intersection #: 21
 Job Number: R006524.0426
 Date: 6/7/2016
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

All Vehicles

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Manor Dr Northbound					N/A Southbound					Int. Total	
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total		
4:15 PM	0	58	4	0	62	5	67	0	0	72	6	0	4	0	10	0	0	0	0	0	0	144
4:30 PM	0	65	5	0	70	2	62	0	0	64	4	0	2	0	6	0	0	0	0	0	0	140
4:45 PM	0	54	5	0	59	4	67	0	0	71	2	0	0	0	2	0	0	0	0	0	0	132
Total	0	177	14	0	191	11	196	0	0	207	12	0	6	0	18	0	0	0	0	0	0	416
5:00 PM	0	85	5	0	90	3	63	0	0	66	9	0	1	0	10	0	0	0	0	0	0	166
5:15 PM	0	78	11	0	89	3	70	0	0	73	9	0	2	0	11	0	0	0	0	0	0	173
5:30 PM	0	98	11	0	109	3	55	0	0	58	8	0	8	0	16	0	0	0	0	0	0	183
Total	0	261	27	0	288	9	188	0	0	197	26	0	11	0	37	0	0	0	0	0	0	522
Grand Total	0	438	41	0	479	20	384	0	0	404	38	0	17	0	55	0	0	0	0	0	0	938
Apprch %	0.0	91.4	8.6	0.0		5.0	95.0	0.0	0.0		69.1	0.0	30.9	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
Total %	0.0	46.7	4.4	0.0	51.1	2.1	40.9	0.0	0.0	43.1	4.1	0.0	1.8	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	

Start Time	Route 0039 Eastbound					Route 0039 Westbound					Manor Dr Northbound					N/A Southbound					Int. Total	
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total		
Peak Hour From	4:45 PM to 5:45 PM																					
Volume	0	315	32	0	347	13	255	0	0	268	28	0	11	0	39	0	0	0	0	0	0	654
Percent	0.0	90.8	9.2	0.0		4.9	95.1	0.0	0.0		71.8	0.0	28.2	0.0								
5:30 PM																						
Volume	0	98	11	0	109	3	55	0	0	58	8	0	8	0	16	0	0	0	0	0	0	183
Peak Factor																						
High Int.	5:30 PM					5:15 PM					5:30 PM					4:15 PM						
Volume	0	98	11	0	109	3	70	0	0	73	8	0	8	0	16	0	0	0	0	0	0	0
PHF	0.80					0.73					0.80					0.81					0.89	
Heavy Vehicles %	0%	1%	0%			0%	2%	0%			0%	0%	0%			0%	0%	0%				
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes			
	0		0	0		0		0	0		0		0	0		0		0	0			



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 22
 Job Number: R006524.0426
 Date: 10/20/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

All Vehicles

Start Time	Manor Dr Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	0	0	15	0	15	0	0	0	0	0	21	107	0	0	128	0	133	1	0	134	277
4:45 PM	0	0	19	0	19	0	0	0	0	0	21	133	0	0	154	0	150	2	0	152	325
Total	0	0	34	0	34	0	0	0	0	0	42	240	0	0	282	0	283	3	0	286	602
5:00 PM	1	0	13	0	14	0	0	0	0	0	30	155	0	0	185	0	151	4	0	155	354
5:15 PM	0	0	20	0	20	0	0	0	0	0	27	133	0	0	160	0	127	1	0	128	308
5:30 PM	0	0	17	0	17	0	0	0	0	0	34	125	0	0	159	0	145	3	0	148	324
5:45 PM	1	0	18	0	19	0	0	0	0	0	21	110	0	0	131	0	140	1	0	141	291
Total	2	0	68	0	70	0	0	0	0	0	112	523	0	0	635	0	563	9	0	572	1277
Grand Total	2	0	102	0	104	0	0	0	0	0	154	763	0	0	917	0	846	12	0	858	1879
Apprch %	1.9	0.0	98.1	0.0							16.8	83.2	0.0	0.0		0.0	98.6	1.4	0.0		
Total %	0.1	0.0	5.4	0.0	5.5	0.0	0.0	0.0	0.0	0.0	8.2	40.6	0.0	0.0	48.8	0.0	45.0	0.6	0.0	45.7	

Start Time	Manor Dr Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total				
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total					
Peak Hour From	4:45 PM to 5:45 PM																								
Volume	1	0	69	0	70	0	0	0	0	0	112	546	0	0	658	0	573	10	0	583	1311				
Percent	1.4	0.0	98.6	0.0							17.0	83.0	0.0	0.0		0.0	98.3	1.7	0.0						
5:00 PM																									
Volume	1	0	13	0	14	0	0	0	0	0	30	155	0	0	185	0	151	4	0	155	354				
Factor																									
High Int.	5:15 PM					4:30 PM					5:00 PM					5:00 PM									
Volume	0	0	20	0	20	0	0	0	0	0	30	155	0	0	185	0	151	4	0	155					
PHF	0.25		0.86		0.88						0.82	0.88			0.89		0.95	0.63		0.94	0.93				
Heavy Vehicles %	0%	0%	0%			0%	0%	0%			0%	1%	0%			0%	2%	0%							
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes						
	0		0	0		0		0	0		0		0	0		0		0	0						



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Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
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Intersection #: 22
 Job Number: R006524.0426
 Date: 10/20/2016
 Page No: 2

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Manor Dr Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
4:30 PM	0	0	1	0	1	0	0	0	0	0	0	3	0	0	3	0	3	0	0	3	7
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	4	0	0	4	7
Total	0	0	1	0	1	0	0	0	0	0	0	6	0	0	6	0	7	0	0	7	14
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	1	0	0	1	4
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2	0	0	2	3
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	3
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	3
Total	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7	0	6	0	0	6	13
Grand Total	0	0	1	0	1	0	0	0	0	0	0	13	0	0	13	0	13	0	0	13	27
Apprch %	0.0	0.0	100.0	0.0							0.0	100.0	0.0	0.0		0.0	100.0	0.0	0.0		
Total %	0.0	0.0	3.7	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	48.1	0.0	0.0	48.1	0.0	48.1	0.0	0.0	48.1	
Overall Peak Hour Volume	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7	0	10	0	0	10	17



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 23
 Job Number: R006524.0426
 Date: 10/4/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

All Vehicles

Start Time	Green Hill Rd (SR 2026) Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	0	0	15	0	15	0	0	0	0	0	25	179	0	0	204	0	158	2	0	160	379
4:45 PM	1	0	18	0	19	0	0	0	0	0	17	188	0	0	205	0	164	3	0	167	391
Total	1	0	33	0	34	0	0	0	0	0	42	367	0	0	409	0	322	5	0	327	770
5:00 PM	1	0	20	0	21	0	0	0	0	0	21	193	0	0	214	0	172	3	0	175	410
5:15 PM	1	0	15	0	16	0	0	0	0	0	30	187	0	0	217	0	167	3	0	170	403
5:30 PM	0	0	22	0	22	0	0	0	0	0	22	193	0	0	215	0	162	3	0	165	402
5:45 PM	4	0	17	0	21	0	0	0	0	0	25	172	0	0	197	0	135	1	0	136	354
Total	6	0	74	0	80	0	0	0	0	0	98	745	0	0	843	0	636	10	0	646	1569
Grand Total	7	0	107	0	114	0	0	0	0	0	140	1112	0	0	1252	0	958	15	0	973	2339
Apprch %	6.1	0.0	93.9	0.0							11.2	88.8	0.0	0.0		0.0	98.5	1.5	0.0		
Total %	0.3	0.0	4.6	0.0	4.9	0.0	0.0	0.0	0.0	0.0	6.0	47.5	0.0	0.0	53.5	0.0	41.0	0.6	0.0	41.6	

Start Time	Green Hill Rd (SR 2026) Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	4:45 PM to 5:45 PM																				
Volume	3	0	75	1	79	0	0	0	0	0	90	761	0	1	852	0	665	12	0	677	1608
Percent	3.8	0.0	94.9	1.3							10.6	89.3	0.0	0.1		0.0	98.2	1.8	0.0		
5:00 PM																					
Volume	1	0	20	1	22	0	0	0	0	0	21	193	0	0	214	0	172	3	0	175	411
Factor																					
High Int.	5:00 PM					4:30 PM					5:15 PM					5:00 PM					
Volume	1	0	20	1	22	0	0	0	0	0	30	187	0	0	217	0	172	3	0	175	
PHF	0.75		0.85	0.25	0.90						0.75	0.99		0.25	0.98	0.97	1.00		0.97	0.98	0.98
Heavy Vehicles %	0%	0%	0%			0%	0%	0%			0%	2%	0%			0%	3%	0%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



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 369 East Park Drive
 Harrisburg, PA 17111
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Intersection #: 23
 Job Number: R006524.0426
 Date: 10/4/2016
 Page No: 2

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Green Hill Rd (SR 2026) Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	0	8	0	0	8	13
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	5	0	1	6	0	2	0	0	2	8
Total	0	0	0	0	0	0	0	0	0	0	0	10	0	1	11	0	10	0	0	10	21
5:00 PM	0	0	0	1	1	0	0	0	0	0	0	1	0	0	1	0	10	0	0	10	12
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	5	0	0	5	8
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7	0	6	0	0	6	13
5:45 PM	0	0	0	0	0	0	0	0	0	0	1	3	0	0	4	0	4	0	0	4	8
Total	0	0	0	1	1	0	0	0	0	0	1	14	0	0	15	0	25	0	0	25	41
Grand Total	0	0	0	1	1	0	0	0	0	0	1	24	0	1	26	0	35	0	0	35	62
Apprch %	0.0	0.0	0.0	100.0							3.8	92.3	0.0	3.8		0.0	100.0	0.0	0.0		
Total %	0.0	0.0	0.0	1.6	1.6	0.0	0.0	0.0	0.0	0.0	1.6	38.7	0.0	1.6	41.9	0.0	56.5	0.0	0.0	56.5	
Overall Peak Hour Volume	0	0	0	1	1	0	0	0	0	0	0	16	0	1	17	0	23	0	0	23	41



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
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Intersection #: 24
 Job Number: R006524.0426
 Date: 7/16/2014
 Page No: 1

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

All Vehicles

Start Time	Devonshire Heights Rd Eastbound					Devonshire Heights Rd Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	0	0	5	0	5	1	0	10	0	11	4	187	10	0	201	6	173	0	0	179	396
4:45 PM	0	1	3	0	4	4	1	4	0	9	7	176	11	0	194	3	212	0	0	215	422
Total	0	1	8	0	9	5	1	14	0	20	11	363	21	0	395	9	385	0	0	394	818
5:00 PM	0	0	5	0	5	2	0	4	0	6	2	198	11	0	211	2	178	1	0	181	403
5:15 PM	0	0	6	0	6	6	1	3	0	10	11	236	8	0	255	2	195	2	0	199	470
5:30 PM	1	1	4	0	6	3	2	4	0	9	5	192	10	0	207	5	176	1	0	182	404
5:45 PM	0	0	2	0	2	3	1	3	0	7	4	197	8	0	209	0	156	2	0	158	376
Total	1	1	17	0	19	14	4	14	0	32	22	823	37	0	882	9	705	6	0	720	1653
Grand Total	1	2	25	0	28	19	5	28	0	52	33	1186	58	0	1277	18	1090	6	0	1114	2471
Apprch %	3.6	7.1	89.3	0.0		36.5	9.6	53.8	0.0		2.6	92.9	4.5	0.0		1.6	97.8	0.5	0.0		
Total %	0.0	0.1	1.0	0.0	1.1	0.8	0.2	1.1	0.0	2.1	1.3	48.0	2.3	0.0	51.7	0.7	44.1	0.2	0.0	45.1	

Start Time	Devonshire Heights Rd Eastbound					Devonshire Heights Rd Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	4:45 PM to 5:45 PM																				
Volume	1	2	18	0	21	15	4	15	0	34	25	802	40	0	867	12	761	4	0	777	1699
Percent	4.8	9.5	85.7	0.0		44.1	11.8	44.1	0.0		2.9	92.5	4.6	0.0		1.5	97.9	0.5	0.0		
5:15 PM Volume	0	0	6	0	6	6	1	3	0	10	11	236	8	0	255	2	195	2	0	199	470
Factor																					
High Int.	5:15 PM					4:30 PM					5:15 PM					4:45 PM					
Volume	0	0	6	0	6	1	0	10	0	11	11	236	8	0	255	3	212	0	0	215	
PHF	0.25	0.50	0.75		0.88	0.63	0.50	0.94		0.85	0.57	0.85	0.91		0.85	0.60	0.90	0.50		0.90	0.90
Heavy Vehicles %	0%	0%	0%			7%	25%	7%			0%	2%	3%			0%	3%	0%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
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Intersection #: 24
 Job Number: R006524.0426
 Date: 7/16/2014
 Page No: 2

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Devonshire Heights Rd Eastbound					Devonshire Heights Rd Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
4:30 PM	0	0	0	0	0	0	0	1	0	1	0	9	0	0	9	1	4	0	0	5	15
4:45 PM	0	0	0	0	0	0	0	1	0	1	0	6	0	0	6	0	9	0	0	9	16
Total	0	0	0	0	0	0	0	2	0	2	0	15	0	0	15	1	13	0	0	14	31
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	3	0	0	3	7
5:15 PM	0	0	0	0	0	1	0	0	0	1	0	4	0	0	4	0	6	0	0	6	11
5:30 PM	0	0	0	0	0	0	1	0	0	1	0	3	1	0	4	0	4	0	0	4	9
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8	0	5	0	0	5	13
Total	0	0	0	0	0	1	1	0	0	2	0	19	1	0	20	0	18	0	0	18	40
Grand Total	0	0	0	0	0	1	1	2	0	4	0	34	1	0	35	1	31	0	0	32	71
Apprch %						25.0	25.0	50.0	0.0		0.0	97.1	2.9	0.0		3.1	96.9	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	1.4	1.4	2.8	0.0	5.6	0.0	47.9	1.4	0.0	49.3	1.4	43.7	0.0	0.0	45.1	
Overall Peak Hour Volume	0	0	0	0	0	1	1	1	0	3	0	17	1	0	18	0	22	0	0	22	43



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Intersection #: 25
 Job Number: R006524.0426
 Date: 10/4/2016
 Page No: 1

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

All Vehicles

Start Time	Red Top Rd (SR 2024) Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	6	0	5	0	11	0	0	0	0	0	4	183	0	0	187	0	157	16	0	173	371
4:45 PM	7	0	13	0	20	0	0	0	0	0	6	216	0	0	222	0	164	13	0	177	419
Total	13	0	18	0	31	0	0	0	0	0	10	399	0	0	409	0	321	29	0	350	790
5:00 PM	7	0	13	0	20	0	0	0	0	0	9	205	0	0	214	0	171	21	0	192	426
5:15 PM	12	0	5	0	17	0	0	0	0	0	8	233	0	0	241	0	147	34	1	182	440
5:30 PM	14	0	8	0	22	0	0	0	0	0	12	191	0	0	203	0	170	11	0	181	406
5:45 PM	7	0	11	0	18	0	0	0	0	0	6	202	0	0	208	0	129	14	0	143	369
Total	40	0	37	0	77	0	0	0	0	0	35	831	0	0	866	0	617	80	1	698	1641
Grand Total	53	0	55	0	108	0	0	0	0	0	45	1230	0	0	1275	0	938	109	1	1048	2431
Apprch %	49.1	0.0	50.9	0.0							3.5	96.5	0.0	0.0		0.0	89.5	10.4	0.1		
Total %	2.2	0.0	2.3	0.0	4.4	0.0	0.0	0.0	0.0	0.0	1.9	50.6	0.0	0.0	52.4	0.0	38.6	4.5	0.0	43.1	

Start Time	Red Top Rd (SR 2024) Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	4:45 PM to 5:45 PM																				
Volume	40	0	39	0	79	0	0	0	0	0	35	845	0	0	880	0	652	79	1	732	1691
Percent	50.6	0.0	49.4	0.0							4.0	96.0	0.0	0.0		0.0	89.1	10.8	0.1		
5:15 PM																					
Volume	12	0	5	0	17	0	0	0	0	0	8	233	0	0	241	0	147	34	1	182	440
Peak Factor																					
High Int.	5:30 PM					4:30 PM					5:15 PM					5:00 PM					
Volume	14	0	8	0	22	0	0	0	0	0	8	233	0	0	241	0	171	21	0	192	
PHF	0.71		0.75		0.90						0.73	0.91			0.91		0.95	0.58	0.25	0.95	0.96
Heavy Vehicles %	10%	0%	0%			0%	0%	0%			0%	1%	0%			0%	3%	6%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



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Intersection #: 25
 Job Number: R006524.0426
 Date: 10/4/2016
 Page No: 2

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Red Top Rd (SR 2024) Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
4:30 PM	0	0	0	0	0	0	0	0	0	0	1	4	0	0	5	0	5	3	0	8	13
4:45 PM	1	0	0	0	1	0	0	0	0	0	0	4	0	0	4	0	2	0	0	2	7
Total	1	0	0	0	1	0	0	0	0	0	1	8	0	0	9	0	7	3	0	10	20
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	7	2	0	9	11
5:15 PM	2	0	0	0	2	0	0	0	0	0	0	2	0	0	2	0	4	2	0	6	10
5:30 PM	1	0	0	0	1	0	0	0	0	0	0	4	0	0	4	0	5	1	0	6	11
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	2	2	0	4	7
Total	3	0	0	0	3	0	0	0	0	0	0	11	0	0	11	0	18	7	0	25	39
Grand Total	4	0	0	0	4	0	0	0	0	0	1	19	0	0	20	0	25	10	0	35	59
Apprch %	100.0	0.0	0.0	0.0							5.0	95.0	0.0	0.0		0.0	71.4	28.6	0.0		
Total %	6.8	0.0	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0	1.7	32.2	0.0	0.0	33.9	0.0	42.4	16.9	0.0	59.3	
Overall Peak Hour Volume	4	0	0	0	4	0	0	0	0	0	0	12	0	0	12	0	18	5	0	23	39



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
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 (717) 564-1121

Intersection #: 26
 Job Number: R006524.0426
 Date: 10/19/2017
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

All Vehicles

Start Time	Grandview Dr Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	48	0	16	0	64	0	0	0	0	0	28	234	0	0	262	0	150	37	0	187	513
4:45 PM	37	0	16	0	53	0	0	0	0	0	25	196	0	0	221	0	149	46	0	195	469
Total	85	0	32	0	117	0	0	0	0	0	53	430	0	0	483	0	299	83	0	382	982
5:00 PM	33	0	30	0	63	0	0	0	0	0	31	218	0	0	249	0	157	38	0	195	507
5:15 PM	54	0	21	0	75	0	0	0	0	0	31	171	0	0	202	0	127	33	0	160	437
5:30 PM	35	0	14	1	50	0	0	0	0	0	26	172	0	0	198	0	128	31	0	159	407
5:45 PM	34	0	13	0	47	0	0	0	0	0	28	123	0	0	151	0	119	36	0	155	353
Total	156	0	78	1	235	0	0	0	0	0	116	684	0	0	800	0	531	138	0	669	1704
Grand Total	241	0	110	1	352	0	0	0	0	0	169	1114	0	0	1283	0	830	221	0	1051	2686
Apprch %	68.5	0.0	31.3	0.3							13.2	86.8	0.0	0.0		0.0	79.0	21.0	0.0		
Total %	9.0	0.0	4.1	0.0	13.1	0.0	0.0	0.0	0.0	0.0	6.3	41.5	0.0	0.0	47.8	0.0	30.9	8.2	0.0	39.1	

Start Time	Grandview Dr Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	4:30 PM to 5:30 PM																				
Volume	172	0	83	0	255	0	0	0	0	0	115	819	0	0	934	0	583	154	1	738	1927
Percent	67.5	0.0	32.5	0.0							12.3	87.7	0.0	0.0		0.0	79.0	20.9	0.1		
4:30 PM																					
Volume	48	0	16	0	64	0	0	0	0	0	28	234	0	0	262	0	150	37	0	187	513
Peak Factor																					
High Int.	5:15 PM					4:30 PM					4:30 PM					4:45 PM					
Volume	54	0	21	0	75	0	0	0	0	0	28	234	0	0	262	0	149	46	1	196	
PHF	0.80		0.69		0.85						0.93	0.88			0.89		0.93	0.84	0.25	0.94	0.94
Heavy Vehicles %	0%	0%	0%			0%	0%	0%			0%	2%	0%			0%	2%	1%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



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Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
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Intersection #: 26
 Job Number: R006524.0426
 Date: 10/19/2017
 Page No: 2

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Grandview Dr Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	2	0	0	2	6
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	0	3	1	1	5	10
Total	0	0	0	0	0	0	0	0	0	0	0	9	0	0	9	0	5	1	1	7	16
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	2	0	0	2	4
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	4	1	0	5	7
5:30 PM	0	0	0	0	0	0	0	0	0	0	1	4	0	0	5	0	2	0	0	2	7
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	1	0	0	1	4
Total	0	0	0	0	0	0	0	0	0	0	1	11	0	0	12	0	9	1	0	10	22
Grand Total	0	0	0	0	0	0	0	0	0	0	1	20	0	0	21	0	14	2	1	17	38
Apprch %											4.8	95.2	0.0	0.0		0.0	82.4	11.8	5.9		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	52.6	0.0	0.0	55.3	0.0	36.8	5.3	2.6	44.7	
Overall Peak Hour Volume	0	0	0	0	0	0	0	0	0	0	0	13	0	0	13	0	11	2	1	14	27



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 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 27
 Job Number: R006524.0426
 Date: 10/19/2017
 Page No: 1

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Start Time	North Hanover St Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	46	0	5	0	51	0	0	0	0	0	3	157	0	0	160	0	119	23	0	142	353
4:45 PM	31	0	1	0	32	0	0	0	0	0	0	203	0	0	203	0	131	18	0	149	384
Total	77	0	6	0	83	0	0	0	0	0	3	360	0	0	363	0	250	41	0	291	737
5:00 PM	42	0	0	0	42	0	0	0	0	0	1	194	0	0	195	0	147	30	0	177	414
5:15 PM	37	0	0	0	37	0	0	0	0	0	1	174	0	0	175	0	156	27	0	183	395
5:30 PM	23	0	3	0	26	0	0	0	0	0	0	177	0	0	177	0	144	14	0	158	361
5:45 PM	28	0	2	0	30	0	0	0	0	0	1	148	0	0	149	0	128	16	0	144	323
Total	130	0	5	0	135	0	0	0	0	0	3	693	0	0	696	0	575	87	0	662	1493
Grand Total	207	0	11	0	218	0	0	0	0	0	6	1053	0	0	1059	0	825	128	0	953	2230
Apprch %	95.0	0.0	5.0	0.0							0.6	99.4	0.0	0.0		0.0	86.6	13.4	0.0		
Total %	9.3	0.0	0.5	0.0	9.8	0.0	0.0	0.0	0.0	0.0	0.3	47.2	0.0	0.0	47.5	0.0	37.0	5.7	0.0	42.7	

Start Time	North Hanover St Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	4:45 PM to 5:45 PM																				
Volume	133	0	4	0	137	0	0	0	0	0	2	748	0	0	750	0	578	89	0	667	1554
Percent	97.1	0.0	2.9	0.0							0.3	99.7	0.0	0.0		0.0	86.7	13.3	0.0		
5:00 PM																					
Volume Peak Factor	42	0	0	0	42	0	0	0	0	0	1	194	0	0	195	0	147	30	0	177	414
High Int.	4:30 PM					4:30 PM					4:45 PM					5:15 PM					
Volume PHF	46	0	5	0	51	0	0	0	0	0	0	203	0	0	203	0	156	27	0	183	0.94
Heavy Vehicles %	0.79		0.33		0.82						0.50	0.92			0.92		0.93	0.74		0.91	
	1%	0%	0%			0%	0%	0%			0%	1%	0%			0%	1%	1%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



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Intersection #: 27
 Job Number: R006524.0426
 Date: 10/19/2017
 Page No: 2

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	North Hanover St Eastbound					N/A Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	2	0	0	2	5
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	4
Total	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7	0	2	0	0	2	9
5:00 PM	1	0	0	0	1	0	0	0	0	0	0	3	0	0	3	0	4	1	0	5	9
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	3	0	0	3	6
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	2	0	0	2	5
Total	1	0	0	0	1	0	0	0	0	0	0	9	0	0	9	0	10	1	0	11	21
Grand Total	1	0	0	0	1	0	0	0	0	0	0	16	0	0	16	0	12	1	0	13	30
Apprch %	100.0	0.0	0.0	0.0							0.0	100.0	0.0	0.0		0.0	92.3	7.7	0.0		
Total %	3.3	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	53.3	0.0	0.0	53.3	0.0	40.0	3.3	0.0	43.3	
Overall Peak Hour Volume	1	0	0	0	1	0	0	0	0	0	0	10	0	0	10	0	8	1	0	9	20



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 369 East Park Drive
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 (717) 564-1121

Intersection #: 28
 Job Number: R006524.0426
 Date: 10/18/2017
 Page No: 1

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Start Time	E Canal St Eastbound					E Canal St Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	0	5	6	0	11	8	5	8	0	21	7	195	6	0	208	3	125	1	0	129	369
4:45 PM	3	3	8	0	14	4	4	3	0	11	0	151	5	0	156	3	109	0	0	112	293
Total	3	8	14	0	25	12	9	11	0	32	7	346	11	0	364	6	234	1	0	241	662
5:00 PM	0	4	3	0	7	5	9	7	0	21	5	215	10	0	230	1	157	0	0	158	416
5:15 PM	0	3	5	0	8	2	9	3	0	14	6	157	3	0	166	5	133	0	0	138	326
5:30 PM	0	3	1	0	4	0	7	5	0	12	3	153	6	0	162	3	140	0	0	143	321
5:45 PM	1	4	1	1	7	2	6	2	0	10	2	131	1	0	134	1	89	1	0	91	242
Total	1	14	10	1	26	9	31	17	0	57	16	656	20	0	692	10	519	1	0	530	1305
Grand Total	4	22	24	1	51	21	40	28	0	89	23	1002	31	0	1056	16	753	2	0	771	1967
Apprch %	7.8	43.1	47.1	2.0		23.6	44.9	31.5	0.0		2.2	94.9	2.9	0.0		2.1	97.7	0.3	0.0		
Total %	0.2	1.1	1.2	0.1	2.6	1.1	2.0	1.4	0.0	4.5	1.2	50.9	1.6	0.0	53.7	0.8	38.3	0.1	0.0	39.2	

Start Time	E Canal St Eastbound					E Canal St Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	4:30 PM					to					5:30 PM										
Volume	3	15	22	0	40	19	27	21	0	67	18	718	24	1	761	12	524	1	1	538	1406
Percent	7.5	37.5	55.0	0.0		28.4	40.3	31.3	0.0		2.4	94.3	3.2	0.1		2.2	97.4	0.2	0.2		
5:00 PM																					
Volume Peak Factor	0	4	3	0	7	5	9	7	0	21	5	215	10	0	230	1	157	0	0	158	416
High Int. Volume	4:45 PM					4:30 PM					5:00 PM					5:00 PM					
PHF	0.25	0.75	0.69		0.71	0.59	0.75	0.66		0.80	0.64	0.83	0.60	0.25	0.83	0.60	0.83	0.25	0.25	0.85	0.84
Heavy Vehicles %	0%	0%	0%			11%	0%	0%			0%	2%	13%			8%	2%	0%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



AN EMPLOYEE-OWNED COMPANY

Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 28
 Job Number: R006524.0426
 Date: 10/18/2017
 Page No: 2

Route 0039 Land Use and Traffic Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	E Canal St Eastbound					E Canal St Westbound					Route 0039 Northbound					Route 0039 Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
4:30 PM	0	0	0	0	0	1	0	0	0	1	0	4	0	1	5	0	2	0	1	3	9
4:45 PM	0	0	0	0	0	1	0	0	0	1	0	2	0	0	2	1	1	0	0	2	5
Total	0	0	0	0	0	2	0	0	0	2	0	6	0	1	7	1	3	0	1	5	14
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	3	3	0	6	0	3	0	0	3	9
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	4	0	0	4	6
5:30 PM	0	0	0	0	0	0	0	0	1	1	0	2	0	0	2	0	4	0	0	4	7
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	3	3
Total	0	0	0	0	0	0	0	0	1	1	0	7	3	0	10	0	13	0	1	14	25
Grand Total	0	0	0	0	0	2	0	0	1	3	0	13	3	1	17	1	16	0	2	19	39
Apprch %						66.7	0.0	0.0	33.3		0.0	76.5	17.6	5.9		5.3	84.2	0.0	10.5		
Total %	0.0	0.0	0.0	0.0	0.0	5.1	0.0	0.0	2.6	7.7	0.0	33.3	7.7	2.6	43.6	2.6	41.0	0.0	5.1	48.7	
Overall Peak Hour Volume	0	0	0	0	0	2	0	0	0	2	0	11	3	1	15	1	10	0	1	12	29



Herbert, Rowland & Grubic, Inc.
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 Harrisburg, PA 17111
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Intersection #: 29
 Job Number: R006524.0426
 Date: 10/24/2017
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 39 / 743 Transportation and Land Use Study
 PM PEAK HOUR

All Vehicles

Start Time	Route 0022 Eastbound					Route 0022 Westbound					Route 0743 Northbound					Laudermilch Rd (SR 2025) Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	20	117	17	0	154	23	86	12	0	121	16	78	36	0	130	20	70	15	0	105	510
4:45 PM	22	125	16	0	163	37	96	15	0	148	17	91	56	0	164	24	52	24	0	100	575
Total	42	242	33	0	317	60	182	27	0	269	33	169	92	0	294	44	122	39	0	205	1085
5:00 PM	20	111	20	0	151	36	81	19	0	136	9	67	49	0	125	37	79	6	0	122	534
5:15 PM	26	118	27	0	171	36	80	26	0	142	16	70	37	0	123	29	68	16	0	113	549
5:30 PM	20	110	14	0	144	18	76	22	0	116	11	72	37	0	120	23	67	12	0	102	482
5:45 PM	32	107	14	0	153	19	54	23	0	96	16	72	16	0	104	31	62	11	0	104	457
Total	98	446	75	0	619	109	291	90	0	490	52	281	139	0	472	120	276	45	0	441	2022
Grand Total	140	688	108	0	936	169	473	117	0	759	85	450	231	0	766	164	398	84	0	646	3107
Apprch %	15.0	73.5	11.5	0.0		22.3	62.3	15.4	0.0		11.1	58.7	30.2	0.0		25.4	61.6	13.0	0.0		
Total %	4.5	22.1	3.5	0.0	30.1	5.4	15.2	3.8	0.0	24.4	2.7	14.5	7.4	0.0	24.7	5.3	12.8	2.7	0.0	20.8	

Start Time	Route 0022 Eastbound					Route 0022 Westbound					Route 0743 Northbound					Laudermilch Rd (SR 2025) Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	4:30 PM to 5:30 PM																				
Volume	88	471	80	0	639	132	343	72	0	547	58	306	178	0	542	110	269	61	0	440	2168
Percent	13.8	73.7	12.5	0.0		24.1	62.7	13.2	0.0		10.7	56.5	32.8	0.0		25.0	61.1	13.9	0.0		
4:45 PM																					
Volume	22	125	16	0	163	37	96	15	0	148	17	91	56	0	164	24	52	24	0	100	575
Peak Factor																					
High Int.	5:15 PM					4:45 PM					4:45 PM					5:00 PM					
Volume	26	118	27	0	171	37	96	15	0	148	17	91	56	0	164	37	79	6	0	122	
PHF	0.85	0.94	0.74		0.93	0.89	0.89	0.69		0.92	0.85	0.84	0.79		0.83	0.74	0.85	0.64		0.90	0.94
Heavy Vehicles %	0%	1%	4%			3%	1%	6%			3%	8%	6%			0%	7%	2%			
Misc.	U-Turn		RTOR		Bikes	U-Turn		RTOR		Bikes	U-Turn		RTOR		Bikes	U-Turn		RTOR		Bikes	
	0		0	0		0		0	0		0		0	0		0		0	0		



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 29
 Job Number: R006524.0426
 Date: 10/24/2017
 Page No: 2

Route 39 / 743 Transportation and Land Use Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Route 0022 Eastbound					Route 0022 Westbound					Route 0743 Northbound					Laudermilch Rd (SR 2025) Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
4:30 PM	0	2	1	0	3	0	4	1	0	5	0	9	3	0	12	0	5	1	0	6	26
4:45 PM	0	1	2	0	3	2	1	2	0	5	1	9	4	0	14	0	8	0	0	8	30
Total	0	3	3	0	6	2	5	3	0	10	1	18	7	0	26	0	13	1	0	14	56
5:00 PM	0	2	0	0	2	1	0	0	0	1	1	3	3	0	7	0	5	0	0	5	15
5:15 PM	0	2	0	0	2	1	0	1	0	2	0	5	1	0	6	0	2	0	0	2	12
5:30 PM	0	3	0	0	3	2	1	0	0	3	0	4	2	0	6	0	2	0	0	2	14
5:45 PM	0	2	0	0	2	1	1	0	0	2	0	8	0	0	8	1	6	0	0	7	19
Total	0	9	0	0	9	5	2	1	0	8	1	20	6	0	27	1	15	0	0	16	60
Grand Total	0	12	3	0	15	7	7	4	0	18	2	38	13	0	53	1	28	1	0	30	116
Apprch %	0.0	80.0	20.0	0.0		38.9	38.9	22.2	0.0		3.8	71.7	24.5	0.0		3.3	93.3	3.3	0.0		
Total %	0.0	10.3	2.6	0.0	12.9	6.0	6.0	3.4	0.0	15.5	1.7	32.8	11.2	0.0	45.7	0.9	24.1	0.9	0.0	25.9	
Overall Peak Hour Volume	0	7	3	0	10	4	5	4	0	13	2	26	11	0	39	0	20	1	0	21	83



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 Harrisburg, PA 17111
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Intersection #: 30
 Job Number: R006524.0426
 Date: 10/25/2017
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 39 / 743 Transportation and Land Use Study
 PM PEAK HOUR

All Vehicles

Start Time	Jonestown Rd Eastbound					Jonestown Rd Westbound					Laudermilch Rd (SR 2025) Northbound					Bow Creek Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	4	12	6	0	22	2	5	3	0	10	5	107	3	0	115	18	123	8	0	149	296
4:45 PM	3	14	3	0	20	5	4	8	0	17	7	113	3	0	123	9	166	14	0	189	349
Total	7	26	9	0	42	7	9	11	0	27	12	220	6	0	238	27	289	22	0	338	645
5:00 PM	3	16	7	0	26	0	7	4	0	11	9	83	2	0	94	14	171	18	0	203	334
5:15 PM	0	10	6	0	16	3	9	4	0	16	4	105	0	0	109	13	138	10	0	161	302
5:30 PM	3	7	7	0	17	5	8	6	1	20	2	101	1	0	104	13	127	4	0	144	285
5:45 PM	4	2	7	0	13	1	9	3	0	13	4	87	2	0	93	11	90	7	0	108	227
Total	10	35	27	0	72	9	33	17	1	60	19	376	5	0	400	51	526	39	0	616	1148
Grand Total	17	61	36	0	114	16	42	28	1	87	31	596	11	0	638	78	815	61	0	954	1793
Apprch %	14.9	53.5	31.6	0.0		18.4	48.3	32.2	1.1		4.9	93.4	1.7	0.0		8.2	85.4	6.4	0.0		
Total %	0.9	3.4	2.0	0.0	6.4	0.9	2.3	1.6	0.1	4.9	1.7	33.2	0.6	0.0	35.6	4.4	45.5	3.4	0.0	53.2	

Start Time	Jonestown Rd Eastbound					Jonestown Rd Westbound					Laudermilch Rd (SR 2025) Northbound					Bow Creek Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	4:30 PM					to					5:30 PM										
Volume	10	52	22	0	84	10	25	19	0	54	25	408	8	0	441	54	598	50	0	702	1281
Percent	11.9	61.9	26.2	0.0		18.5	46.3	35.2	0.0		5.7	92.5	1.8	0.0		7.7	85.2	7.1	0.0		
4:45 PM																					
Volume	3	14	3	0	20	5	4	8	0	17	7	113	3	0	123	9	166	14	0	189	349
Peak Factor																					
High Int.	5:00 PM					5:30 PM					4:45 PM					5:00 PM					
Volume	3	16	7	0	26	5	8	6	1	20	7	113	3	0	123	14	171	18	0	203	
PHF	0.63	0.81	0.79		0.81	0.50	0.69	0.59		0.79	0.69	0.90	0.67		0.90	0.75	0.87	0.69		0.86	0.92
Heavy Vehicles %	0%	2%	9%			10%	4%	11%			4%	5%	13%			2%	9%	2%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
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Intersection #: 30
 Job Number: R006524.0426
 Date: 10/25/2017
 Page No: 2

Route 39 / 743 Transportation and Land Use Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Jonestown Rd Eastbound					Jonestown Rd Westbound					Laudermilch Rd (SR 2025) Northbound					Bow Creek Rd Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
4:30 PM	0	1	2	0	3	0	0	1	0	1	0	8	1	0	9	1	8	1	0	10	23
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	0	19	0	0	19	25
Total	0	1	2	0	3	0	0	1	0	1	0	14	1	0	15	1	27	1	0	29	48
5:00 PM	0	0	0	0	0	0	1	0	0	1	1	4	0	0	5	0	20	0	0	20	26
5:15 PM	0	0	0	0	0	1	0	1	0	2	0	4	0	0	4	0	4	0	0	4	10
5:30 PM	0	0	0	0	0	1	0	0	0	1	0	6	0	0	6	0	4	0	0	4	11
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	0	3	0	0	3	8
Total	0	0	0	0	0	2	1	1	0	4	1	19	0	0	20	0	31	0	0	31	55
Grand Total	0	1	2	0	3	2	1	2	0	5	1	33	1	0	35	1	58	1	0	60	103
Apprch %	0.0	33.3	66.7	0.0		40.0	20.0	40.0	0.0		2.9	94.3	2.9	0.0		1.7	96.7	1.7	0.0		
Total %	0.0	1.0	1.9	0.0	2.9	1.9	1.0	1.9	0.0	4.9	1.0	32.0	1.0	0.0	34.0	1.0	56.3	1.0	0.0	58.3	
Overall Peak Hour Volume	0	1	2	0	3	1	1	2	0	4	1	22	1	0	24	1	51	1	0	53	84



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 369 East Park Drive
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Intersection #: 31
 Job Number: R006524.0426
 Date: 10/26/2017
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 39 / 743 Transportation and Land Use Study
 PM PEAK HOUR

All Vehicles

Start Time	I-81 NB Off Ramp Eastbound					I-81 NB On Ramp Westbound					Bow Creek Rd Northbound					Bow Creek Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	40	0	46	0	86	0	0	0	0	0	0	83	45	0	128	17	85	0	0	102	316
4:45 PM	46	0	53	0	99	0	0	0	0	0	0	76	45	0	121	27	74	0	0	101	321
Total	86	0	99	0	185	0	0	0	0	0	0	159	90	0	249	44	159	0	0	203	637
5:00 PM	44	0	57	0	101	0	0	0	0	0	0	69	48	0	117	17	76	0	0	93	311
5:15 PM	41	0	50	0	91	0	0	0	0	0	0	78	60	0	138	19	76	0	0	95	324
5:30 PM	46	0	48	0	94	0	0	0	0	0	0	97	49	0	146	18	80	0	0	98	338
5:45 PM	55	0	38	0	93	0	0	0	0	0	0	75	20	0	95	16	61	0	0	77	265
Total	186	0	193	0	379	0	0	0	0	0	0	319	177	0	496	70	293	0	0	363	1238
Grand Total	272	0	292	0	564	0	0	0	0	0	0	478	267	0	745	114	452	0	0	566	1875
Apprch %	48.2	0.0	51.8	0.0								0.0	64.2	35.8	0.0	20.1	79.9	0.0	0.0		
Total %	14.5	0.0	15.6	0.0	30.1	0.0	0.0	0.0	0.0	0.0	0.0	25.5	14.2	0.0	39.7	6.1	24.1	0.0	0.0	30.2	

Start Time	I-81 NB Off Ramp Eastbound					I-81 NB On Ramp Westbound					Bow Creek Rd Northbound					Bow Creek Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	4:45 PM to 5:45 PM																				
Volume	177	0	208	0	385	0	0	0	0	0	0	320	202	0	522	81	306	0	0	387	1294
Percent	46.0	0.0	54.0	0.0								0.0	61.3	38.7	0.0	20.9	79.1	0.0	0.0		
5:30 PM Volume Peak Factor	46	0	48	0	94	0	0	0	0	0	0	97	49	0	146	18	80	0	0	98	338
High Int. Volume PHF	5:00 PM					4:30 PM					5:30 PM					4:30 PM					
	44	0	57	0	101	0	0	0	0	0	0	97	49	0	146	17	85	0	0	102	
	0.96		0.91		0.95							0.82	0.84		0.89	0.75	0.96			0.96	0.96
Heavy Vehicles %	5%	0%	5%			0%	0%	0%			0%	3%	5%			5%	4%	0%			
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		
	0		0	0		0		0	0		0		0	0		0		0	0		



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Intersection #: 31
 Job Number: R006524.0426
 Date: 10/26/2017
 Page No: 2

Route 39 / 743 Transportation and Land Use Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	I-81 NB Off Ramp Eastbound					I-81 NB On Ramp Westbound					Bow Creek Rd Northbound					Bow Creek Rd Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
4:30 PM	1	0	7	0	8	0	0	0	0	0	0	4	4	0	8	1	6	0	0	7	23
4:45 PM	4	0	2	0	6	0	0	0	0	0	0	1	1	0	2	1	1	0	0	2	10
Total	5	0	9	0	14	0	0	0	0	0	0	5	5	0	10	2	7	0	0	9	33
5:00 PM	2	0	2	0	4	0	0	0	0	0	0	0	1	0	1	0	4	0	0	4	9
5:15 PM	3	0	3	0	6	0	0	0	0	0	0	6	5	0	11	0	2	0	0	2	19
5:30 PM	0	0	3	0	3	0	0	0	0	0	0	4	4	0	8	3	4	0	0	7	18
5:45 PM	1	0	4	0	5	0	0	0	0	0	0	3	0	0	3	0	4	0	0	4	12
Total	6	0	12	0	18	0	0	0	0	0	0	13	10	0	23	3	14	0	0	17	58
Grand Total	11	0	21	0	32	0	0	0	0	0	0	18	15	0	33	5	21	0	0	26	91
Apprch %	34.4	0.0	65.6	0.0							0.0	54.5	45.5	0.0		19.2	80.8	0.0	0.0		
Total %	12.1	0.0	23.1	0.0	35.2	0.0	0.0	0.0	0.0	0.0	0.0	19.8	16.5	0.0	36.3	5.5	23.1	0.0	0.0	28.6	
Overall Peak Hour Volume	9	0	10	0	19	0	0	0	0	0	0	11	11	0	22	4	11	0	0	15	56



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 32
 Job Number: R006524.0426
 Date: 10/26/2017
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 39 / 743 Transportation and Land Use Study
 PM PEAK HOUR

All Vehicles

Start Time	I-81 SB On Ramp Eastbound					I-81 SB Off Ramp Westbound					Bow Creek Rd Northbound					Bow Creek Rd Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	0	0	0	0	0	34	1	15	0	50	22	98	0	0	120	0	68	33	0	101	271
4:45 PM	0	0	0	0	0	28	1	24	0	53	20	109	0	0	129	0	71	34	0	105	287
Total	0	0	0	0	0	62	2	39	0	103	42	207	0	0	249	0	139	67	0	206	558
5:00 PM	0	0	0	0	0	34	0	33	0	67	19	90	0	0	109	0	71	41	0	112	288
5:15 PM	0	0	0	0	0	24	0	25	0	49	33	87	0	0	120	0	71	33	0	104	273
5:30 PM	0	0	0	0	0	37	0	22	0	59	22	121	0	0	143	0	62	36	0	98	300
5:45 PM	0	0	0	0	0	36	0	20	0	56	18	113	0	0	131	0	47	42	0	89	276
Total	0	0	0	0	0	131	0	100	0	231	92	411	0	0	503	0	251	152	0	403	1137
Grand Total	0	0	0	0	0	193	2	139	0	334	134	618	0	0	752	0	390	219	0	609	1695
Apprch %						57.8	0.6	41.6	0.0		17.8	82.2	0.0	0.0		0.0	64.0	36.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	11.4	0.1	8.2	0.0	19.7	7.9	36.5	0.0	0.0	44.4	0.0	23.0	12.9	0.0	35.9	

Start Time	I-81 SB On Ramp Eastbound					I-81 SB Off Ramp Westbound					Bow Creek Rd Northbound					Bow Creek Rd Southbound					Int. Total				
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total					
Peak Hour From	4:45 PM to 5:45 PM																								
Volume	0	0	0	0	0	123	1	104	0	228	94	407	0	0	501	0	275	144	0	419	1148				
Percent						53.9	0.4	45.6	0.0		18.8	81.2	0.0	0.0		0.0	65.6	34.4	0.0						
5:30 PM Volume	0	0	0	0	0	37	0	22	0	59	22	121	0	0	143	0	62	36	0	98	300				
Factor																									
High Int.	4:30 PM					5:00 PM					5:30 PM					5:00 PM									
Volume	0	0	0	0	0	34	0	33	0	67	22	121	0	0	143	0	71	41	0	112					
PHF						0.83	0.25	0.79	0.85		0.71	0.84	0.88			0.97	0.88			0.94	0.96				
Heavy Vehicles %	0%	0%	0%			11%	0%	7%			14%	3%	0%			0%	2%	5%							
Misc.	U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes		U-Turn		RTOR	Bikes						
	0		0	0		0		0	0		0		0	0		0		0	0						



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 32
 Job Number: R006524.0426
 Date: 10/26/2017
 Page No: 2

Route 39 / 743 Transportation and Land Use Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	I-81 SB On Ramp Eastbound					I-81 SB Off Ramp Westbound					Bow Creek Rd Northbound					Bow Creek Rd Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
4:30 PM	0	0	0	0	0	5	0	2	0	7	1	4	0	0	5	0	2	2	0	4	16
4:45 PM	0	0	0	0	0	3	0	3	0	6	1	5	0	0	6	0	1	3	0	4	16
Total	0	0	0	0	0	8	0	5	0	13	2	9	0	0	11	0	3	5	0	8	32
5:00 PM	0	0	0	0	0	4	0	2	0	6	2	1	0	0	3	0	1	2	0	3	12
5:15 PM	0	0	0	0	0	3	0	1	0	4	6	4	0	0	10	0	1	1	0	2	16
5:30 PM	0	0	0	0	0	4	0	1	0	5	4	3	0	0	7	0	3	1	0	4	16
5:45 PM	0	0	0	0	0	2	0	2	0	4	2	1	0	0	3	0	2	4	0	6	13
Total	0	0	0	0	0	13	0	6	0	19	14	9	0	0	23	0	7	8	0	15	57
Grand Total	0	0	0	0	0	21	0	11	0	32	16	18	0	0	34	0	10	13	0	23	89
Apprch %						65.6	0.0	34.4	0.0		47.1	52.9	0.0	0.0		0.0	43.5	56.5	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	23.6	0.0	12.4	0.0	36.0	18.0	20.2	0.0	0.0	38.2	0.0	11.2	14.6	0.0	25.8	
Overall Peak Hour Volume	0	0	0	0	0	14	0	7	0	21	13	13	0	0	26	0	6	7	0	13	60



Herbert, Rowland & Grubic, Inc.
 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 33
 Job Number: R006524.0426
 Date: 10/17/2017
 Page No: 1

AN EMPLOYEE-OWNED COMPANY
 Route 39 / 743 Transportation and Land Use Study
 PM PEAK HOUR

All Vehicles

Start Time	Mountain Rd (SR 0443) Eastbound					Mountain Rd (SR 0443) Westbound					Bow Creek Rd Northbound					N/A Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
4:30 PM	0	7	17	0	24	11	47	0	0	58	22	0	18	0	40	0	0	0	0	0	122
4:45 PM	0	12	9	0	21	10	20	0	0	30	25	0	16	0	41	0	0	0	0	0	92
Total	0	19	26	0	45	21	67	0	0	88	47	0	34	0	81	0	0	0	0	0	214
5:00 PM	0	8	8	0	16	8	14	0	0	22	23	0	15	0	38	0	0	0	0	0	76
5:15 PM	0	13	11	0	24	10	10	0	0	20	17	0	11	0	28	0	0	0	0	0	72
5:30 PM	0	7	12	0	19	10	9	0	0	19	13	0	12	0	25	0	0	0	0	0	63
5:45 PM	0	7	14	0	21	9	6	0	0	15	6	0	10	0	16	0	0	0	0	0	52
Total	0	35	45	0	80	37	39	0	0	76	59	0	48	0	107	0	0	0	0	0	263
Grand Total	0	54	71	0	125	58	106	0	0	164	106	0	82	0	188	0	0	0	0	0	477
Apprch %	0.0	43.2	56.8	0.0		35.4	64.6	0.0	0.0		56.4	0.0	43.6	0.0		0.0	0.0	0.0	0.0	0.0	
Total %	0.0	11.3	14.9	0.0	26.2	12.2	22.2	0.0	0.0	34.4	22.2	0.0	17.2	0.0	39.4	0.0	0.0	0.0	0.0	0.0	

Start Time	Mountain Rd (SR 0443) Eastbound					Mountain Rd (SR 0443) Westbound					Bow Creek Rd Northbound					N/A Southbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour From	4:30 PM					to					5:30 PM										
Volume	0	40	45	0	85	39	91	0	0	130	87	0	60	1	148	0	0	0	0	0	363
Percent	0.0	47.1	52.9	0.0		30.0	70.0	0.0	0.0		58.8	0.0	40.5	0.7							
4:30 PM																					
Volume	0	7	17	0	24	11	47	0	0	58	22	0	18	0	40	0	0	0	0	0	122
Peak Factor																					
High Int.	4:30 PM					4:30 PM					4:45 PM					4:30 PM					
Volume	0	7	17	0	24	11	47	0	0	58	25	0	16	1	42	0	0	0	0	0	0
PHF	0.77					0.66					0.89					0.88					0.74
Heavy Vehicles %	0%					2%					5%					0%					
Misc.	U-Turn		RTOR		Bikes	U-Turn		RTOR		Bikes	U-Turn		RTOR		Bikes	U-Turn		RTOR		Bikes	
	0		0		0	0		0		0	0		0		0	0		0		0	



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 369 East Park Drive
 Harrisburg, PA 17111
 (717) 564-1121

Intersection #: 33
 Job Number: R006524.0426
 Date: 10/17/2017
 Page No: 2

AN EMPLOYEE-OWNED COMPANY
 Route 39 / 743 Transportation and Land Use Study
 PM PEAK HOUR

Heavy Vehicles & Bicycles

Start Time	Mountain Rd (SR 0443) Eastbound					Mountain Rd (SR 0443) Westbound					Bow Creek Rd Northbound					N/A Southbound					Int. Total
	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	Left	Thru	Right	Bikes	App. Total	
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	2
4:45 PM	0	0	0	0	0	1	0	0	0	1	2	0	0	1	3	0	0	0	0	0	4
Total	0	0	0	0	0	1	0	0	0	1	2	0	2	1	5	0	0	0	0	0	6
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	1	0	1	1	0	0	0	1	0	0	1	0	1	0	0	0	0	0	3
5:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1
5:45 PM	0	1	1	0	2	1	0	0	0	1	0	0	3	0	3	0	0	0	0	0	6
Total	0	1	2	0	3	2	0	0	0	2	1	0	4	0	5	0	0	0	0	0	10
Grand Total	0	1	2	0	3	3	0	0	0	3	3	0	6	1	10	0	0	0	0	0	16
Apprch %	0.0	33.3	66.7	0.0		100.0	0.0	0.0	0.0		30.0	0.0	60.0	10.0		0.0	0.0	0.0	0.0	0.0	
Total %	0.0	6.3	12.5	0.0	18.8	18.8	0.0	0.0	0.0	18.8	18.8	0.0	37.5	6.3	62.5	0.0	0.0	0.0	0.0	0.0	
Overall Peak Hour Volume	0	0	1	0	1	2	0	0	0	2	2	0	3	1	6	0	0	0	0	0	9