Seacoast Reliability Project Little Bay Road & Gundalow Landing Route 125 & Laydown Area Traffic Impact Analysis Report





Submitted by:



1.0 Introduction and Purpose

This report documents the traffic analysis completed by Louis Berger to evaluate the potential for traffic impacts associated with construction related activities for the Seacoast Reliability Project. The report is designed to aid in the Site Evaluation Committee's review of the criteria found in New Hampshire Site Evaluation Committee Rules 301.04(b)–(c), regarding the technical and managerial capability to construct the project, and Site 301.09 regarding the orderly development of the region.

The traffic impact analysis was performed at two locations. The Locations were selected because one site is representative of a typical municipally maintained road in Seacoast region and the other site was selected because it is located on a heavily-travelled state-maintained road between major towns and cities in New Hampshire. Both locations, are therefore, representative of typical roads that the Project will utilize during construction. The two selected locations are as follows:

- 1. The intersection of Little Bay Road & Gundalow Landing in the Town of Newington, New Hampshire. This location is representative of one-lane-two-way alternative traffic controlled by a flagger as well as an Eversource Right-of-Way (ROW) access point.
- 2. The laydown area on Route 25, approximately 0.92 miles north of the US 4 & Route 125 roundabout intersection in the Town of Lee, New Hampshire. This location is the known Lee Laydown Area for the Project.

1.1 Site Description

The location of the Little Bay Road & Gundalow Landing intersection site area is shown in **Figure 1**. The location of Route 125 & the Lee Laydown Area is shown in **Figure 2**.





Figure 1: Little Bay Road & Gundalow Landing Site Location



Figure 2: Route 125 & Laydown Area Site Location



1.2 Little Bay Road & Gundalow Landing Existing Conditions

Little Bay Road is a two-lane local road of approximately 1.8 miles between Nimble Hill Road and Fox Point Road in the Town of Newington, New Hampshire. It serves residential neighborhoods and the posted speed limit is 30 mph. Lane width is 11 feet on each direction with no shoulders.

Gundalow Landing is a residential road of approximately 430 feet, then making a loop of approximately 1,460 feet. Gundalow Landing serves 12 residences. The road is 24 feet wide and not delineated.

Access from Gundalow Landing to US 4 can be achieved from either the north or south approach of the intersection with Little Bay Road. Access through the north approach is approximately 2.5 miles while the south approach is approximately 2.25 miles.

A six-hour traffic count was performed on Wednesday, May 2nd, 2018. The counts covered three hours in the morning between 6:00 AM and 9:00 AM, and three hours in the afternoon between 3:00 PM and 6:00 PM. Counting during these windows of time is a standard practice to capture the AM and PM peak hours of traffic, also known as rush hour. **Appendix A** shows the traffic count data obtained in the field. **Appendix B** shows the volumes, truck composition and bus composition used for the analysis of the existing conditions.

A total of 58 vehicles passed through the intersection throughout the three-hour AM period while the volume doubled in the PM with a total of 119 vehicles. A total of 8 bicyclists were observed during the three-hour PM period. Neither pedestrians nor trucks were observed throughout the six-hour traffic count period. Four school buses were observed; 2 in the morning and 2 in the afternoon. The AM peak hour occurred between 6:30 AM and 7:30 AM with a total of 25 vehicles passing through the intersection. The PM peak hour was observed to occur between 5:00 PM and 6:00 PM with a total of 48 vehicles passing through the intersection.

1.3 Route 125 & Laydown Area Existing Conditions

Route 125 is a major north-south route with heavy commuter traffic between Rochester, New Hampshire, Route 101, and Massachusetts. It carries large trucks and tourist traffic which is known to increase during the summer months. The posted speed limit is 50 mph. There is one (1) 12-foot lane in each direction with 9 foot shoulders.

The city of Rochester, New Hampshire is approximately 9 miles north of the site. Route 101, which is an east-west freeway between I-95 and Manchester, New Hampshire is approximately 10.5 miles to the south. The city of Portsmouth, New Hampshire and I-95 are located approximately 17.5 miles east via US 4. The distance between the Route 125 Laydown Area & Gundalow Landing is approximate 14 miles via US 4.

A six-hour traffic count was performed on Tuesday, May 8th, 2018. The counts covered three hours in the morning between 6:00 AM and 9:00 AM, and three hours in the afternoon between 3:00 PM and 6:00 PM. **Appendix C** shows the traffic count data obtained in the field. **Appendix D** shows the volume, truck composition and bus composition used for the analysis of the existing conditions.



A total of 3,322 vehicles passed through the intersection thorughout the three-hour AM period while the number increased to 4,132 vehicles in the three-hour PM period. Neither bicyclists nor pedestrians were observed throughout the six-hour traffic count period. The AM peak hour occurred between 7:15 AM and 8:15 AM with a total of 1,313 vehicles; 764 vehicles traveled from the north, while 549 traveled from the south. The truck composition for the AM peak hour was 9.8% for the northbound and 5.2% for the southbound direction. The bus composition for the AM peak hour was 1.3% for the northbound and 0.7% for the southbound direction.

The PM peak hour was observed to occur between 4:15 PM and 5:15 PM with a total of 1,540 vehicles; 892 vehicles traveled from the south, 646 vehicles traveled from the north, and 2 vehicles came out of the laydown area. The truck composition for the PM peak hour was 2.2% for the northbound 3.9% for the southbound direction. The bus composition for the PM peak hour was 0.2% for the northbound and 0% for the southbound direction.

1.4 Construction Conditions for Little Bay Road & Gundalow Landing

Proposed traffic control to accommodate construction of the buried lines crossing Little Bay Road and the overhead lines in the existing ROW is shown in **Figure 3**. During a brief period Little Bay Road will be reduced to a single lane serving alternating traffic with a flagger in place during daylight hours only for no more than a week to allow for construction. There will also be truck traffic accessing the Eversource right of way at this location for overhead construction for a longer period of time. The traffic analysis has been performed for the existing conditions and with the proposed construction traffic control, for comparison.

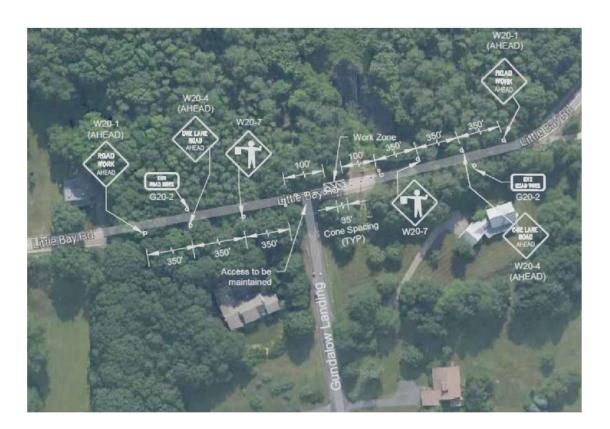




Figure 3: Gundalow Landing Traffic Control Plan

The construction will add trucks along Little Bay Road to ingress and egress the ROW. During the AM peak it is anticipated that 10 trucks will be entering and 2 trucks will be egressing the ROW. Of the 10 trucks entering, 9 trucks will be coming from the south, while 1 truck will be coming from the north. Of the 2 trucks egressing, 1 truck will proceed in each direction on Little Bay Road. During the PM peak, it is anticipated that 10 trucks will be egressing the ROW and 2 trucks will be entering. Of the 10 trucks egressing, 9 trucks will make a left turn towards southbound Little Bay Road, and 1 truck will make a right turn towards northbound Little Bay Road. Of the 2 trucks entering the ROW, 1 truck will come from both the north and one from the south. **Appendix E** shows volumes, truck composition, and bus composition used for the analysis of the construction conditions. These volumes were created by adding estimated construction vehicle counts to the existing condition.

1.5 Construction Conditions for Route 125 & the Laydown Area

There is no proposed construction along Route 125. The Lee laydown area will only be used to store the construction equipment. The traffic analysis has been performed for the existing conditions and the conditions that will be generated as construction begins which will increase the amount of heavy vehicles entering and egressing the laydown/staging area.

During the AM peak, it is anticipated that a total of 20 vehicles will be added to the existing number of vehicles entering the laydown area from Route 125. Those 20 vehicles will be personal vehicles of the workers. It is assumed that 10 vehicles will be coming from both the northbound and southbound direction of Route 125. During the same AM peak, a total of 10 trucks will be added to the existing total of trucks egressing the laydown area, each truck being occupied by 2 workers. All of the trucks will make a left turn to proceed south on Route 125.

During the PM peak, a total of 10 trucks will be added to the existing total of trucks entering the laydown area. All of the trucks will be coming from the south on Route 125. Also, there will be an additional 20 vehicles egressing the laydown area, 10 vehicles will be departing in both the northbound and southbound direction of Route 125. **Appendix F** shows volumes, truck composition, and bus composition used for the analysis of the construction conditions. These volumes were created by adding estimated construction vehicle counts to the existing condition. No traffic control measures are necessary at this location as they would only disrupt the daily traffic along Route 125. For example by adding a flagger to assist trucks exiting the Lee Laydown area Route 125 traffic would need to be slowed or stopped. Without a flagger the construction vehicles will be required to wait for an adequate gap in traffic.



2.0 Traffic Operations Analysis

Planung Transport Verkehr (PTV) Vissim 10 software was used to perform the traffic analysis of the existing conditions and construction conditions for both study locations. During construction, the traffic control will require a flagger to control the alternating traffic using the one lane provided on Little Bay Road. The flagger was simulated as an actuated signalized intersection allowing green phases to respond to approaching vehicles much as a flagger would.

Vissim provides delay per vehicle as well as queue length results. Based on the resulting delay, and following the methods outlined in the Highway Capacity Manual (HCM), the results are reported as Level of Service (LOS). The LOS ranges from A through F, with A being the best and F being the worst. A Highway Capacity Software (HCS) analysis was also performed to compare the results obtained in Vissim.

The HCM lists the following definitions for each grade:

- A= Free flow
- B= Reasonably free flow
- C= Stable flow
- D= Approaching unstable flow
- E= Unstable flow
- F= Forced flow, volume is greater than capacity

The level of service assignments for two-way stop-controlled intersections as compared to delay values are shown in **Table 1**.

Table 1: LOS Criteria for Two-Way Sto	op-Controlled (TWSC) Intersections
Level of Service	Delay per Vehicle (sec)
Level of Service	TWSC
Α	0 to 10
В	>10 to 15
С	>15 to 25
D	>25 to 35
E	>35 to 50
F	>50

The level of service assignments for signalized intersections, which was used to simulate the flagging operations during construction, are shown in **Table 2**.

Table 2: LOS Criteria for S	Signalized Intersections
Level of Service	Delay per Vehicle (sec) Signalized
Α	0 to 10
В	>10 to 20
C	>20 to 35
D	>35 to 55
E	>55 to 80
F	>80



2.1 Little Bay Road & Gundalow Landing Intersection Capacity Analysis

The traffic analysis results for the intersection of Little Bay Road & Gundalow Landing study area are described in this section. The analyses were performed for the AM and PM peak hours for both the existing conditions and construction conditions. An average of five Vissim microsimulation runs were performed to provide delay and maximum queue length. Results for the five simulated runs are provided in **Appendix G**.

□ 2.1.1 Intersection Results During Existing Conditions

The results for the existing TWSC at Little Bay Road & Gundalow Landing intersection are presented in **Table 3**.

Table 3:	L	andiı	ng Results	-	Existing Conditions						
		AM Pe	ak Hour				PM Peak Hour				
Approach	Lane Group	Delay ¹	LOS	Queue Length ²	Lane Group	Delay ¹	LOS	Queue Length²			
SB Little Bay (Free)	TR	0.0	A (Free Flow)	0	TR	0.0	A (Free Flow)	0			
NB Little Bay (Free)	LT	0.0	A (Free Flow)	0	LT	0.0	A (Free Flow)	0			
EB Gundalow (Stop Control)	LR	2.3	A (Free Flow)	15	LR	2.7	A (Free Flow)	25			

¹ Delay is reported in seconds per vehicle.

The existing conditions at the Little Bay & Gundalow Landing intersection are acceptable with minimal or no delay and queues.

□ 2.1.2 Intersection Results During Construction

The results during construction are shown in **Table 4**.

Table 4: Gundalow	1	L	anding Re	sults –	During Construction					
		AM Pea	ık Hour				PM Peak Hour			
Approach	Lane Group	Delay ¹	LOS	Queue Length²	Lane Group	Delay ¹	LOS	Queue Length ²		
SB Little Bay	LTR	4.0	A (Free Flow)	45	LTR	5.3	A (Free Flow)	50		
NB Little Bay	LTR	1.8	A (Free Flow)	60	LTR	4.2	A (Free Flow)	55		
EB Gundalow	LR	5.7	A (Free Flow)	15	LR	7.2	A (Free Flow)	35		
WB Overhead ROW	LR	4.1	A (Free Flow)	50	LR	8.2	A (Free Flow)	65		

¹ Delay is reported in seconds per vehicle.

Pursuant to the Highway Capacity Manual (HCM), the intersection operations during construction are acceptable and continue to be characterized as "free flow". The maximum simulated delay is for trucks coming out of the ROW during the PM peak hour with 8.2 seconds



² Queue length is measured in feet.

² Queue length is measured in feet.

and a maximum queue of 65 feet. This queue will be fully confined to the access road. Therefore, the expected traffic impacts from project construction at Little Bay road and other similar roads is minimal or non-existent.

2.2 Route 125 & Laydown Area Intersection Capacity Analysis

The traffic analysis results for Route 125 & the Laydown Area are described in this section. The analyses were performed for the AM and PM peak hours for both the existing conditions and during construction which will increase the amount of heavy vehicles transporting materials to/from the laydown/staging area. An average of five Vissim microsimulation runs were performed to provide delay and maximum queue length. Results for the five simulated runs in Vissim are located in **Appendix H**.

2.2.1 Intersection Results During Existing Conditions

The results for the existing TWSC at Route 125 & Laydown Area intersection are shown in **Table 5**.

Table 5: Route	125	& Lay	down Res	ults	- 1	Existi	ng Conditio	ns
		AM Pea	ak Hour				PM Peak Hour	
Approach	Lane Group	Delay ¹	LOS	Queue Length ²	Lane Group	Delay ¹	LOS	Queue Length ²
SB Route 125 (Free)	LT	0.0	A (Free Flow)	0	LT	0.0	A (Free Flow)	0
NB Route 125 (Free)	TR	0.0	A (Free Flow)	0	TR	0.0	A (Free Flow)	0
EB Laydown Area (Stop Control)	LR	45	B (Reasonably Free Flow)	13.4	LR	22.2	C (Stable Flow)	35

¹ Delay is reported in seconds per vehicle.

The existing intersection operations are acceptable with minimal delays and queue lengths.

□ 2.2.1 Intersection Results During Construction

The intersection results during construction are shown in **Table 6**.

Table 6: Route	125 &	Layo	down Res	ults	 During Construction 						
		AM F	Peak Hour				PM Peak Hour				
Approach	Lane Group	Delay ¹	LOS	Queue Length ²	Lane Group	Delay ¹	LOS	Queue Length ²			
SB Route 125 (Free)	LT	0.0	A (Free Flow)	10	LT	0.0	A (Free Flow)	0			
NB Route 125 (Free)	TR	0.0	A (Free Flow)	0	TR	0.0	A (Free Flow)	0			
EB Laydown Area (Stop Control)	LR	11.3	B (Reasonably Free Flow)	75	LR	17.4	C (Stable Flow)	65			

¹ Delay is reported in seconds per vehicle.

² Queue length is measured in feet.



² Queue length is measured in feet.

The intersection operations during construction are acceptable with minimal delays and queue lengths. The maximum simulated delay is 17.4 seconds for the vehicles (cars/trucks) coming out of the Laydown Area during the PM peak hour. Maximum simulated queue length is for the same approach during the AM peak hour for the construction condition with 75 feet. These queues and delays will be confined to the Lee Laydown Area driveway. Therefore, the expected traffic impacts from Project construction along Route 125 and other similar roads is minimal.

3.0 Recommendations

Louis Berger has completed a traffic impact analysis for both the existing conditions and the conditions during construction for both the Little Bay Road & Gundalow Landing intersection and the Route 125 & Lee Laydown Area intersection. Based on this analysis, the traffic operations for both intersections will not be noticeably affected during construction.



APPENDIX A



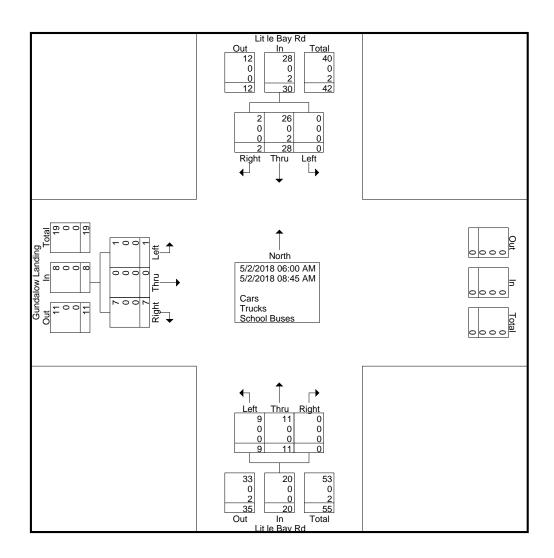
Little Bay Rd & Gundalow Landing AM Traffic Counts 6:00 AM - 9:00 AM

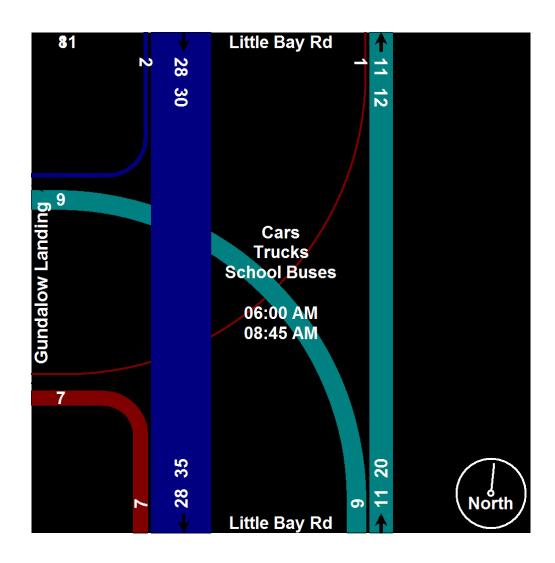
		Gloups Filiteu- Cais - Trucks - School Buses								1			
		Little	Bay Rd			Little I	Bay Rd			Gundalow		ıg	
		From	n North			From	South			From	West		
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
06:00 AN	1 0	3	0	3	0	1	1	2	0	0	0	0	5
06:15 AN	٥ I ا	0	0	0	0	1	0	1	1	0	0	1	2
06:30 AN	٥ I ا	3	0	3	0	2	1	3	0	0	0	0	6
06:45 AN	٥ I ا	3	0	3	0	3	1	4	0	0	0	0	7
Tota	ıl O	9	0	9	0	7	3	10	1	0	0	1	20
	'			,									
07:00 AN	1 1	2	0	3	0	0	1	1	0	0	0	0	4
07:15 AN	٥ I ا	6	0	6	0	1	0	1	1	0	0	1	8
07:30 AN	٥ I ا	4	0	4	0	0	2	2	0	0	0	0	6
07:45 AN	0 1	1	0	1	0	0	1	1	2	0	0	2	4
Tota	1	13	0	14	0	1	4	5	3	0	0	3	22
08:00 AN	1 0	1	0	1	0	0	1	1	0	0	1	1	3
08:15 AN	<i>I</i> 1	2	0	3	0	1	0	1	0	0	0	0	4
08:30 AN	٥ I ا	1	0	1	0	2	0	2	0	0	0	0	3
08:45 AN	٥ I ا	2	0	2	0	0	1	1	3	0	0	3	6
Tota	1	6	0	7	0	3	2	5	3	0	1	4	16

Yarmouth, ME 04096

Little Bay Rd & Gundalow Landing **AM Traffic Counts** 6:00 AM - 9:00 AM

		Little E	Bay Rd		Little Bay Rd								
		From	North			From	South		From West				
	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Grand Total	2	28	0	30	0	11	9	20	7	0	1	8	58
Apprch %	6.7	93.3	0		0	55	45		87.5	0	12.5		
Total %	3.4	48.3	0	51.7	0	19	15.5	34.5	12.1	0	1.7	13.8	
Cars	2	26	0	28	0	11	9	20	7	0	1	8	56
% Cars	100	92.9	0	93.3	0	100	100	100	100	0	100	100	96.6
Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0
% Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0_
School Buses	0	2	0	2	0	0	0	0	0	0	0	0	2
% School Buses	0	7.1	0	6.7	0	0	0	0	0	0	0	0	3.4

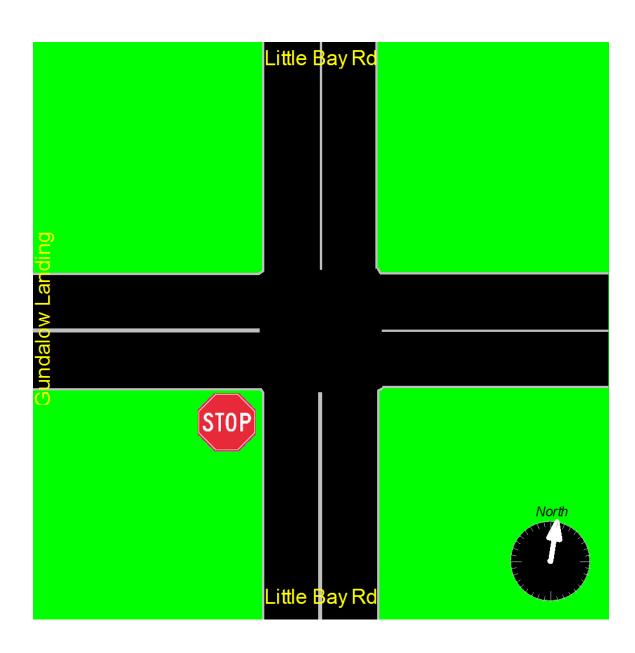




		Little E	,				Bay Rd		(Gundalow		g	
		From	North			From	South			From			
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analys					1 of 1								
Peak Hour for Ent	ire Interse	ction Beg	ins at 06	6:30 AM					_				
06:30 AM	0	3	0	3	0	2	1	3	0	0	0	0	6
06:45 AM	0	3	0	3	0	3	1	4	0	0	0	0	7
07:00 AM	1	2	0	3	0	0	1	1	0	0	0	0	4
07:15 AM	0	6	0	6	0	1_	0	1	1	0	0	1	8
Total Volume	1	14	0	15	0	6	3	9	1	0	0	1	25
% App. Total	6.7	93.3	0		0	66.7	33.3		100	0	0		
PHF	.250	.583	.000	.625	.000	.500	.750	.563	.250	.000	.000	.250	.781
Cars	1	13	0	14	0	6	3	9	1	0	0	1	24
% Cars	100	92.9	0	93.3	0	100	100	100	100	0	0	100	96.0
Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0
% Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0
School Buses	0	1	0	1	0	0	0	0	0	0	0	0	1
% School Buses	0	7.1	0	6.7	0	0	0	0	0	0	0	0	4.0

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			Bay Rd			Little Bay Rd				Gundalow Landing			
		From	North			From	South			From	West		
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analys	is From 06	:00 AM t	o 08:45	AM - Peak	1 of 1								
Peak Hour for Eac	ch Approac	h Begins	at:										
	06:45 AM				06:00 AM				07:15 AM				
+0 mins.	0	3	0	3	0	1	1	2	1	0	0	1	
+15 mins.	1	2	0	3	0	1	0	1	0	0	0	0	
+30 mins.	0	6	0	6	0	2	1	3	2	0	0	2	
+45 mins.	0	4	0	4	0	3	1	4	0	0	1_	1	
Total Volume	1	15	0	16	0	7	3	10	3	0	1	4	
% App. Total	6.2	93.8	0		0	70	30		75	0	25		
PHF	.250	.625	.000	.667	.000	.583	.750	.625	.375	.000	.250	.500	
Cars	1	13	0	14	0	7	3	10	3	0	1	4	
% Cars	100	86.7	0	87.5	0	100	100	100	100	0	100	100	
Trucks	0	0	0	0	0	0	0	0	0	0	0	0	
% Trucks	0	0	0	0	0	0	0	0	0	0	0	0	
School Buses	0	2	0	2	0	0	0	0	0	0	0	0	
% School Buses	0	13.3	0	12.5	0	0	0	0	0	0	0	0	



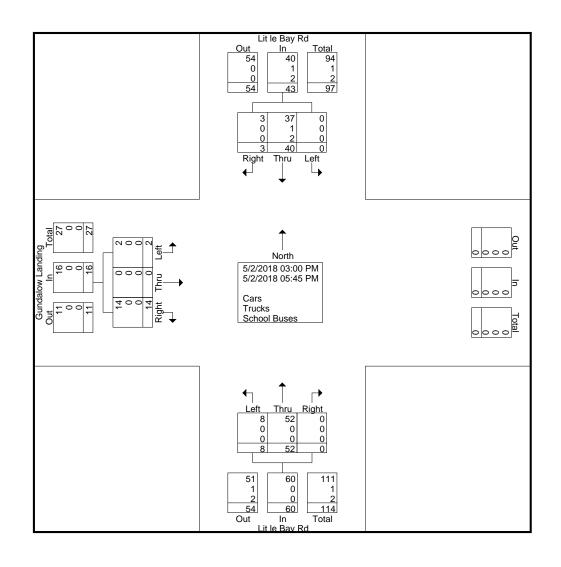
Little Bay Rd & Gundalow Landing PM Traffic Counts 3:00 PM - 6:00 PM

				Стоирс	, i iiiitoa			CHOCH BUSC					
		Little B	ay Rd			Little E	Bay Rd		(ıg			
		From I	North			From	South			From '	West		
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
03:00 PM	0	1	0	1	0	1	0	1	2	0	0	2	4
03:15 PM	1	1	0	2	0	3	2	5	1	0	0	1	8
03:30 PM	0	2	0	2	0	1	1	2	0	0	0	0	4
03:45 PM	1	5	0	6	0	3	0	3	1	0	0	1	10
Total	2	9	0	11	0	8	3	11	4	0	0	4	26
04:00 PM	0	3	0	3	0	5	1	6	2	0	0	2	11
04:15 PM	0	6	0	6	0	6	0	6	0	0	1	1	13
04:30 PM	1	3	0	4	0	5	0	5	1	0	0	1	10
04:45 PM	0	3	0	3	0	7	0	7	1	0	0	1	11
 Total	1	15	0	16	0	23	1	24	4	0	1	5	45
05:00 PM	0	4	0	4	0	5	0	5	0	0	0	0	9
05:15 PM	0	6	0	6	0	8	0	8	0	0	0	0	14
05:30 PM	0	2	0	2	0	4	3	7	1	0	1	2	11
05:45 PM	0	4	0	4	0	4	1	5	5	0	0	5	14
Total	0	16	0	16	0	21	4	25	6	0	1	7	48

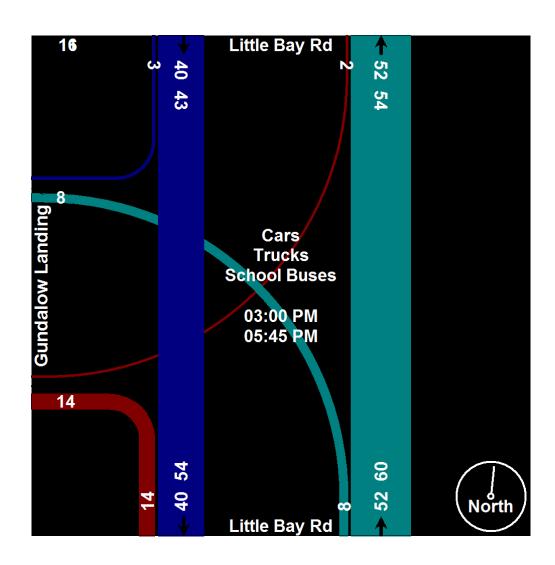
Yarmouth, ME 04096

Little Bay Rd & Gundalow Landing PM Traffic Counts 3:00 PM - 6:00 PM

		Little E	Bay Rd			Little	Bay Rd						
		From	North			From	South		From West				
	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Grand Total	3	40	0	43	0	52	8	60	14	0	2	16	119
Apprch %	7	93	0		0	86.7	13.3		87.5	0	12.5		
Total %	2.5	33.6	0	36.1	0	43.7	6.7	50.4	11.8	0	1.7	13.4	
Cars	3	37	0	40	0	52	8	60	14	0	2	16	116
% Cars	100	92.5	0	93	0	100	100	100	100	0	100	100	97.5
Trucks	0	1	0	1	0	0	0	0	0	0	0	0	1
% Trucks	0	2.5	0	2.3	0	0	0	0	0	0	0	0	0.8
School Buses	0	2	0	2	0	0	0	0	0	0	0	0	2
% School Buses	0	5	0	4.7	0	0	0	0	0	0	0	0	1.7

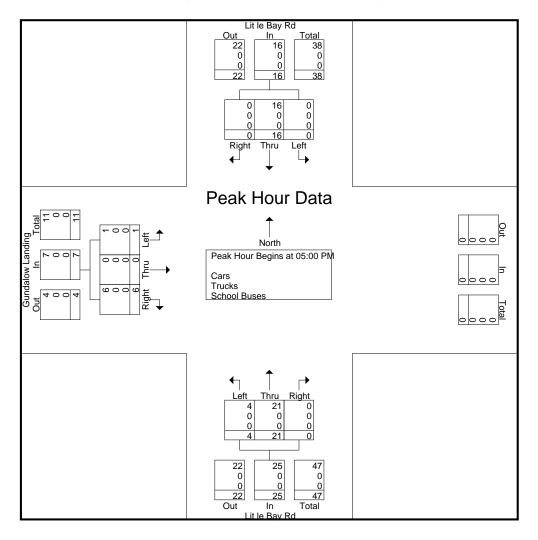


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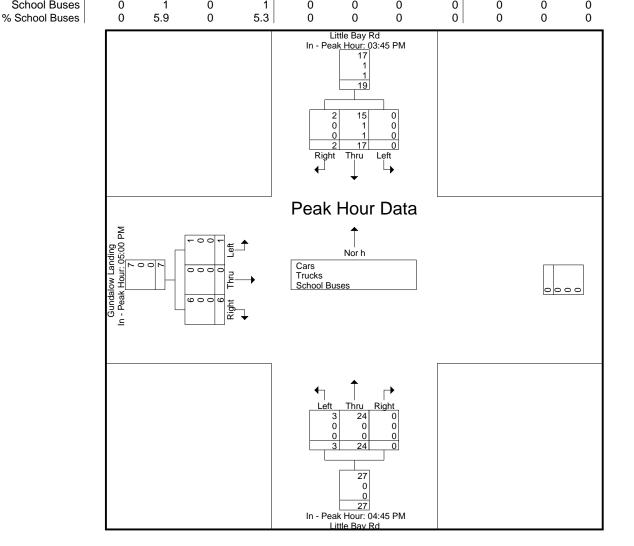
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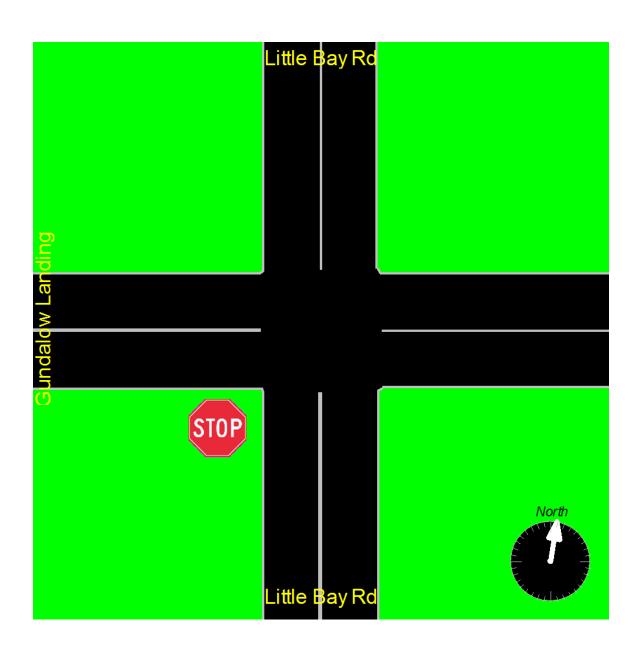
		Little E	Bay Rd			Little	Bay Rd			Gundalov	w Landin	ıg	
		From	North			From	South			From	West		
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analys					1 of 1				_				
Peak Hour for Ent	ire Interse	ction Beg	gins at 0	5:00 PM									
05:00 PM	0	4	0	4	0	5	0	5	0	0	0	0	9
05:15 PM	0	6	0	6	0	8	0	8	0	0	0	0	14
05:30 PM	0	2	0	2	0	4	3	7	1	0	1	2	11
05:45 PM	0	4	0	4	0	4	1	5	5	0	0	5	14
Total Volume	0	16	0	16	0	21	4	25	6	0	1	7	48
% App. Total	0	100	0		0	84	16		85.7	0	14.3		
PHF	.000	.667	.000	.667	.000	.656	.333	.781	.300	.000	.250	.350	.857
Cars	0	16	0	16	0	21	4	25	6	0	1	7	48
% Cars	0	100	0	100	0	100	100	100	100	0	100	100	100
Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0
% Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0
School Buses	0	0	0	0	0	0	0	0	0	0	0	0	0
% School Buses	0	0	0	0	0	0	0	0	0	0	0	0	0



Yarmouth, ME 04096

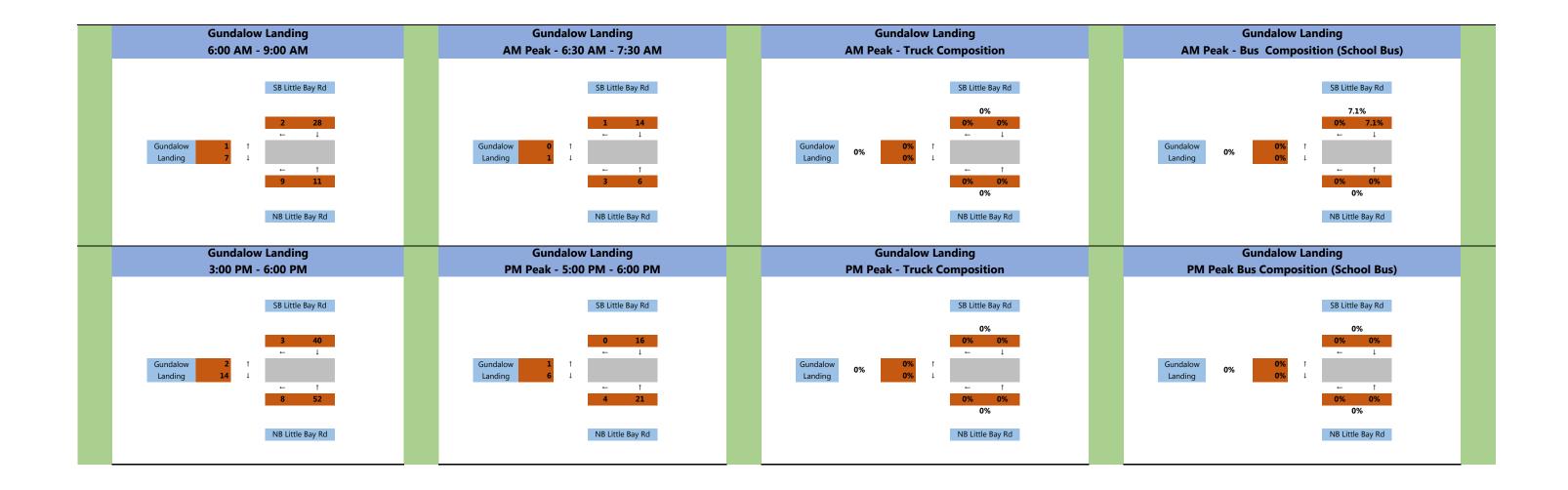
		Little B From	•				Bay Rd South		G		v Landin West	g	
Start Time	Right	Thru		App. Total	Right	Thru		App. Total	Right	Thru		App. Total	Int. Total
Peak Hour Analys		:00 PM t							<u> </u>				
Peak Hour for Eac	ch Approac	h Begins	at:										
	03:45 PM				04:45 PM				05:00 PM				l
+0 mins.	1	5	0	6	0	7	0	7	0	0	0	0	
+15 mins.	0	3	0	3	0	5	0	5	0	0	0	0	
+30 mins.	0	6	0	6	0	8	0	8	1	0	1	2	
+45 mins.	1	3	0	4	0	4	3	7	5	0	0	5	l
Total Volume	2	17	0	19	0	24	3	27	6	0	1	7	
% App. Total	10.5	89.5	0		0	88.9	11.1		85.7	0	14.3		
PHF	.500	.708	.000	.792	.000	.750	.250	.844	.300	.000	.250	.350	
Cars	2	15	0	17	0	24	3	27	6	0	1	7	
% Cars	100	88.2	0	89.5	0	100	100	100	100	0	100	100	
Trucks	0	1	0	1	0	0	0	0	0	0	0	0	
% Trucks	0	5.9	0	5.3	0	0	0	0	0	0	0	0	
School Buses	0	1	0	1	0	0	0	0	0	0	0	0	
% School Buses	0	5.9	0	5.3	0	0	0	0	0	0	0	0	I





APPENDIX B





APPENDIX C



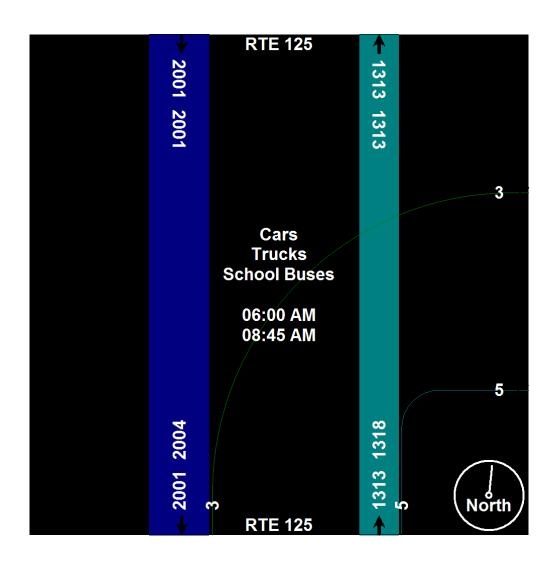
RTE 125 & Flynn Pit AM Traffic Counts 6:00 AM - 9:00 AM

							Giou	<u> 105 FII</u>	ntea- v	<u> </u>	TUCKS	<u>- SCII</u>	OUI D	1262							
		F	RTE 1	25								F	RTE 1	25							
		Fr	om N	orth			F	rom E	ast			Fr	om So	outh			Fr	om W	est		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
06:00 AM	0	126	0	0	126	0	0	0	0	0	0	48	0	0	48	0	0	0	0	0	174
06:15 AM	0	168	0	0	168	0	0	0	0	0	0	58	0	0	58	0	0	0	0	0	226
06:30 AM	0	178	0	0	178	0	0	0	0	0	0	105	0	0	105	0	0	0	0	0	283
06:45 AM	0	190	0	0	190	0	0	0	0	0	1	104	0	0	105	0	0	0	0	0	295
Total	0	662	0	0	662	0	0	0	0	0	1	315	0	0	316	0	0	0	0	0	978
·																					
07:00 AM	0	156	0	0	156	0	0	2	0	2	1	120	0	0	121	0	0	0	0	0	279
07:15 AM	0	184	0	0	184	0	0	0	0	0	2	117	0	0	119	0	0	0	0	0	303
07:30 AM	0	229	0	0	229	0	0	0	0	0	0	141	0	0	141	0	0	0	0	0	370
07:45 AM	0	184	0	0	184	0	0	0	0	0	0	147	0	0	147	0	0	0	0	0	331
Total	0	753	0	0	753	0	0	2	0	2	3	525	0	0	528	0	0	0	0	0	1283
·																					
08:00 AM	0	167	0	0	167	0	0	0	0	0	1	141	0	0	142	0	0	0	0	0	309
08:15 AM	0	159	0	0	159	0	0	1	0	1	0	104	0	0	104	0	0	0	0	0	264
08:30 AM	0	129	0	0	129	0	0	0	0	0	0	100	0	0	100	0	0	0	0	0	229
08:45 AM	0	131	0	0	131	0	0	0	0	0	0	128	0	0	128	0	0	0	0	0	259
Total	0	586	0	0	586	0	0	1	0	1	1	473	0	0	474	0	0	0	0	0	1061

RTE 125 & Flynn Pit AM Traffic Counts 6:00 AM - 9:00 AM

		F	RTE 12	25								F	RTE 1	25							
		Fr	om No	orth			F	rom E	ast			Fr	om So	outh			Fr	om W	est		
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Grand Total	0	2001	0	0	2001	0	0	3	0	3	5	1313	0	0	1318	0	0	0	0	0	3322
Apprch %	0	100	0	0		0	0	100	0		0.4	99.6	0	0		0	0	0	0		
Total %		60.2	0	0	60.2	0	0	0.1	0	0.1	0.2	39.5	0	0	39.7	0	0	0	0	0	
Cars	0	1892	0	0	1892	0	0	0	0	0	1	1190	0	0	1191	0	0	0	0	0	3083
% Cars	0	94.6	0	0	94.6	0	0	0	0	0	20	90.6	0	0	90.4	0	0	0	0	0	92.8
Trucks	0	96	0	0	96	0	0	3	0	3	4	106	0	0	110	0	0	0	0	0	209
% Trucks	0	4.8	0	0	4.8	0	0	100	0	100	80	8.1	0	0	8.3	0	0	0	0	0	6.3
School Buses	0	13	0	0	13	0	0	0	0	0	0	17	0	0	17	0	0	0	0	0	30
% School Buses	0	0.6	0	0	0.6	0	0	0	0	0	0	1.3	0	0	1.3	0	0	0	0	0	0.9

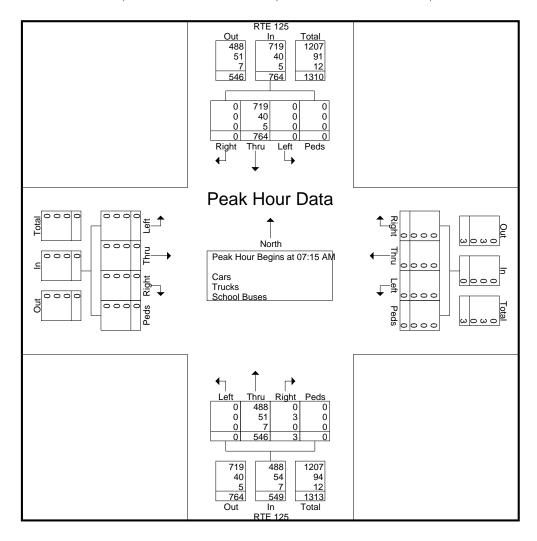
RTE 125 & Flynn Pit **AM Traffic Counts** 6:00 AM - 9:00 AM



Yarmouth, ME 04096

RTE 125 & Flynn Pit **AM Traffic Counts** 6:00 AM - 9:00 AM

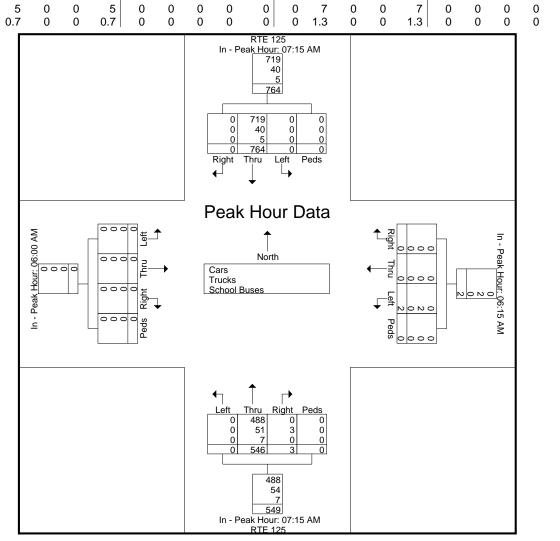
		F	RTE 1	25								F	RTE 1	25							
		Fr	om No	orth			F	rom E	ast			Fr	om So	outh			Fr	om W	est		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour A	Analys	sis Fro	m 06:	00 AM	to 08:4	45 AM	- Pea	k 1 of	1												
Peak Hour f	or Ent	tire Int	ersect	tion Be	egins at	07:15	5 AM														
07:15 AM	0	184	0	0	184	0	0	0	0	0	2	117	0	0	119	0	0	0	0	0	303
07:30 AM	0	229	0	0	229	0	0	0	0	0	0	141	0	0	141	0	0	0	0	0	370
07:45 AM	0	184	0	0	184	0	0	0	0	0	0	147	0	0	147	0	0	0	0	0	331
08:00 AM	0	167	0	0	167	0	0	0	0	0	1	141	0	0	142	0	0	0	0	0	309
Total Volume	0	764	0	0	764	0	0	0	0	0	3	546	0	0	549	0	0	0	0	0	1313
% App. Total	0	100	0	0		0	0	0	0		0.5	99.5	0	0		0	0	0	0		
PHF	.000	.834	.000	.000	.834	.000	.000	.000	.000	.000	.375	.929	.000	.000	.934	.000	.000	.000	.000	.000	.887
Cars	0	719	0	0	719	0	0	0	0	0	0	488	0	0	488	0	0	0	0	0	1207
% Cars	0	94.1	0	0	94.1	0	0	0	0	0	0	89.4	0	0	88.9	0	0	0	0	0	91.9
Trucks	0	40	0	0	40	0	0	0	0	0	3	51	0	0	54	0	0	0	0	0	94
% Trucks	0	5.2	0	0	5.2	0	0	0	0	0	100	9.3	0	0	9.8	0	0	0	0	0	7.2
School Buses	0	5	0	0	5	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	12
% School Buses	0	0.7	0	0	0.7	0	0	0	0	0	0	1.3	0	0	1.3	0	0	0	0	0	0.9



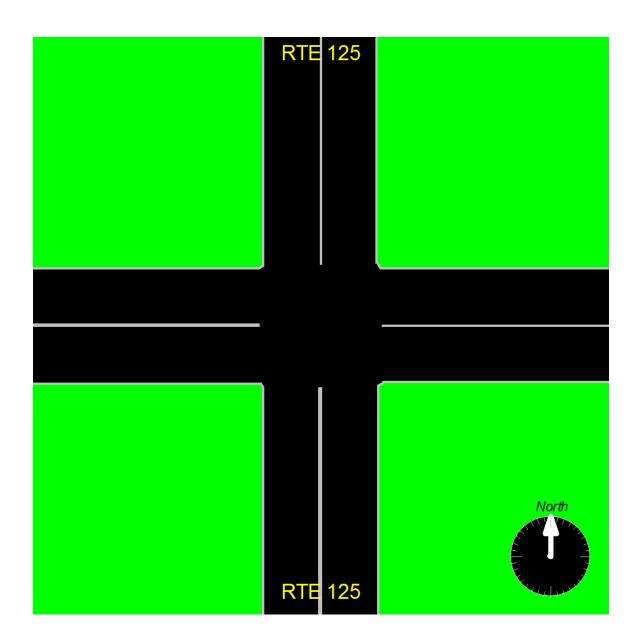
Yarmouth, ME 04096

RTE 125 & Flynn Pit **AM Traffic Counts** 6:00 AM - 9:00 AM

		F	RTE 12	25								F	RTE 1	25							
		Fr	om No	orth			Fı	rom E	ast			Fr	om So	outh			Fr	om W	est		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. To
Peak Hour A	Analys	is Fro	m 06:	00 AM	to 08:4	45 AM	- Pea	k 1 of	1												
Peak Hour f	or Ead	ch App	oroach	n Begir	ns at:																
	07:15 AM					06:15 AM					07:15 AN					06:00 AM					
+0 mins.	0	184	0	0	184	0	0	0	0	0	2	117	0	0	119	0	0	0	0	0	
+15 mins.	0	229	0	0	229	0	0	0	0	0	0	141	0	0	141	0	0	0	0	0	
+30 mins.	0	184	0	0	184	0	0	0	0	0	0	147	0	0	147	0	0	0	0	0	
+45 mins.	0	167	0	0	167	0	0	2	0	2	1	141	0	0	142	0	0	0	0	0	
Total Volume	0	764	0	0	764	0	0	2	0	2	3	546	0	0	549	0	0	0	0	0	
% App. Total	0	100	0	0		0	0	100	0		0.5	99.5	0	0		0	0	0	0		
PHF	.000	.834	.000	.000	.834	.000	.000	.250	.000	.250	.375	.929	.000	.000	.934	.000	.000	.000	.000	.000	
Cars	0	719	0	0	719	0	0	0	0	0	0	488	0	0	488	0	0	0	0	0	
% Cars	0	94. 1	0	0	94.1	0	0	0	0	0	0	89. 4	0	0	88.9	0	0	0	0	0	
Trucks	0	40	0	0	40	0	0	2	0	2	3	51	0	0	54	0	0	0	0	0	
% Trucks	0	5.2	0	0	5.2	0	0	100	0	100	100	9.3	0	0	9.8	0	0	0	0	0	
School Buses	0	5	0	0	5	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	
% School Buses	0	0.7	0	0	0.7	0	0	0	0	0	0	1.3	0	0	1.3	0	0	0	0	0	



RTE 125 & Flynn Pit AM Traffic Counts 6:00 AM - 9:00 AM



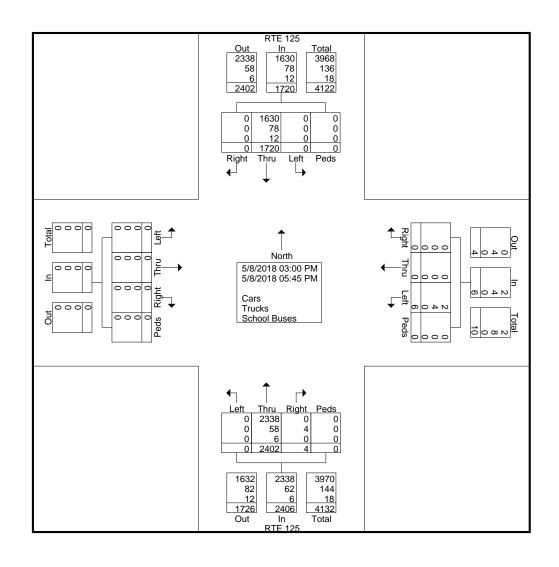
RTE 125 & Flynn Pit PM Traffic Counts 3:00 PM - 6:00 PM

							Oiou	P3 1 11	nicu ·	Cais	TUCKS	OCI	001 0	4303							
		F	RTE 1	25								F	RTE 1	25							
		Fr	om No	orth			F	rom E	ast			Fr	om So	outh			Fr	om W	est		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
03:00 PM	0	145	0	0	145	0	0	2	0	2	1	156	0	0	157	0	0	0	0	0	304
03:15 PM	0	151	0	0	151	0	0	1	0	1	0	164	0	0	164	0	0	0	0	0	316
03:30 PM	0	152	0	0	152	0	0	0	0	0	0	175	0	0	175	0	0	0	0	0	327
03:45 PM	0	148	0	0	148	0	0	0	0	0	0	199	0	0	199	0	0	0	0	0	347
Total	0	596	0	0	596	0	0	3	0	3	1	694	0	0	695	0	0	0	0	0	1294
•																					
04:00 PM	0	144	0	0	144	0	0	0	0	0	1	208	0	0	209	0	0	0	0	0	353
04:15 PM	0	166	0	0	166	0	0	0	0	0	0	201	0	0	201	0	0	0	0	0	367
04:30 PM	0	156	0	0	156	0	0	0	0	0	0	230	0	0	230	0	0	0	0	0	386
04:45 PM	0	145	0	0	145	0	0	1	0	1	1	225	0	0	226	0	0	0	0	0	372
Total	0	611	0	0	611	0	0	1	0	1	2	864	0	0	866	0	0	0	0	0	1478
				-			_		_		_			-			_		-		
05:00 PM	0	179	0	0	179	0	0	1	0	1	1	234	0	0	235	0	0	0	0	0	415
05:15 PM	0	102	0	0	102	0	0	1	0	1	0	222	0	0	222	0	0	0	0	0	325
05:30 PM	Ō	148	0	0	148	0	0	0	0	0	0	191	0	0	191	0	0	0	0	0	339
05:45 PM	0	84	0	Õ	84	Ö	0	Ö	0	Ő	0	197	Ö	Ö	197	0	0	Ö	Ö	ő	281
Total	0	513	0	0	513	0	0	2	0	2	1	844	0	0	845	0	0	0	0	0	1360
	-		-	-			-	_	-	_			-	-			-	-	-	- 1	

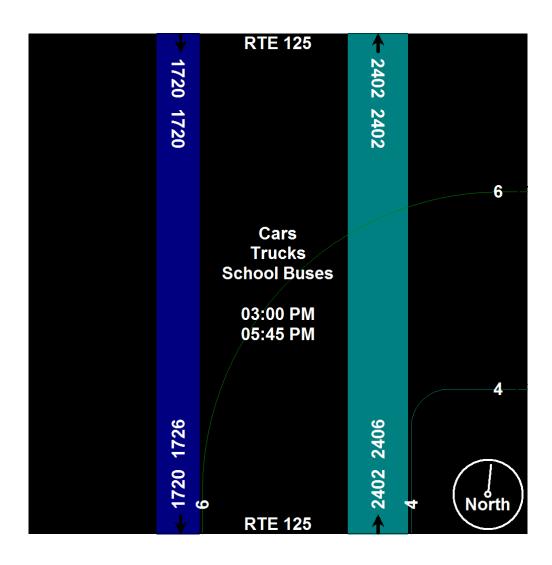
Yarmouth, ME 04096

RTE 125 & Flynn Pit PM Traffic Counts 3:00 PM - 6:00 PM

		F	RTE 1	25								F	RTE 1	25							
		Fr	om N	orth			F	rom E	ast			Fr	om So	outh			Fr	om W	est		
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Grand Total	0	1720	0	0	1720	0	0	6	0	6	4	2402	0	0	2406	0	0	0	0	0	4132
Apprch %	0	100	0	0		0	0	100	0		0.2	99.8	0	0		0	0	0	0		
Total %	0	41.6	0	0	41.6	0	0	0.1	0	0.1	0.1	58.1	0	0	58.2	0	0	0	0	0	
Cars	0	1630	0	0	1630	0	0	2	0	2	0	2338	0	0	2338	0	0	0	0	0	3970
% Cars	0	94.8	0	0	94.8	0	0	33.3	0	33.3	0	97.3	0	0	97.2	0	0	0	0	0	96.1
Trucks	0	78	0	0	78	0	0	4	0	4	4	58	0	0	62	0	0	0	0	0	144
% Trucks	0	4.5	0	0	4.5	0	0	66.7	0	66.7	100	2.4	0	0	2.6	0	0	0	0	0	3.5
School Buses	0	12	0	0	12	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	18
% School Buses	0	0.7	0	0	0.7	0	0	0	0	0	0	0.2	0	0	0.2	0	0	0	0	0	0.4



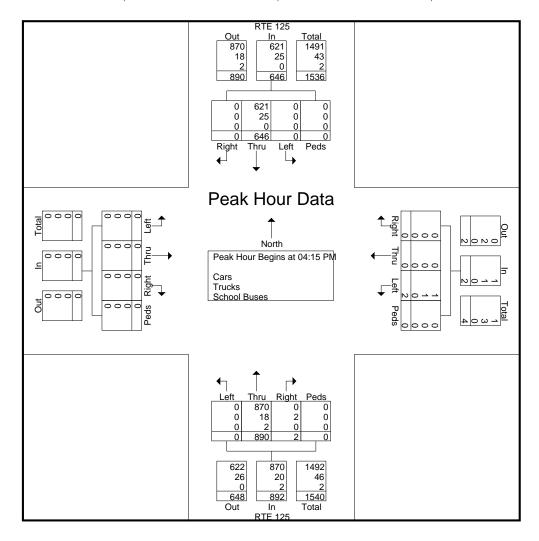
RTE 125 & Flynn Pit PM Traffic Counts 3:00 PM - 6:00 PM



Yarmouth, ME 04096

RTE 125 & Flynn Pit PM Traffic Counts 3:00 PM - 6:00 PM

		F	RTE 1	25								F	RTE 1	25							
		Fr	om No	orth			F	rom E	ast			Fr	om So	outh			Fr	om W	est		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour	Analys	sis Fro	m 03:	00 PM	l to 05:4	45 PM	- Pea	k 1 of	1												
Peak Hour f	or En	tire Int	ersec	tion Be	egins at	04:15	PM														
04:15 PM	0	166	0	0	166	0	0	0	0	0	0	201	0	0	201	0	0	0	0	0	367
04:30 PM	0	156	0	0	156	0	0	0	0	0	0	230	0	0	230	0	0	0	0	0	386
04:45 PM	0	145	0	0	145	0	0	1	0	1	1	225	0	0	226	0	0	0	0	0	372
05:00 PM	0	179	0	0	179	0	0	1	0	1	1	234	0	0	235	0	0	0	0	0	415
Total Volume	0	646	0	0	646	0	0	2	0	2	2	890	0	0	892	0	0	0	0	0	1540
% App. Total	0	100	0	0		0	0	100	0		0.2	99.8	0	0		0	0	0	0		
PHF	.000	.902	.000	.000	.902	.000	.000	.500	.000	.500	.500	.951	.000	.000	.949	.000	.000	.000	.000	.000	.928
Cars	0	621	0	0	621	0	0	1	0	1	0	870	0	0	870	0	0	0	0	0	1492
% Cars	0	96.1	0	0	96.1	0	0	50.0	0	50.0	0	97.8	0	0	97.5	0	0	0	0	0	96.9
Trucks	0	25	0	0	25	0	0	1	0	1	2	18	0	0	20	0	0	0	0	0	46
% Trucks	0	3.9	0	0	3.9	0	0	50.0	0	50.0	100	2.0	0	0	2.2	0	0	0	0	0	3.0
School Buses	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	2
% School Buses	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0.2	0	0	0	0	0	0.1



Louis Berger 106 Lafayette Street, Suite 2F

Yarmouth, ME 04096

RTE 125 & Flynn Pit PM Traffic Counts 3:00 PM - 6:00 PM

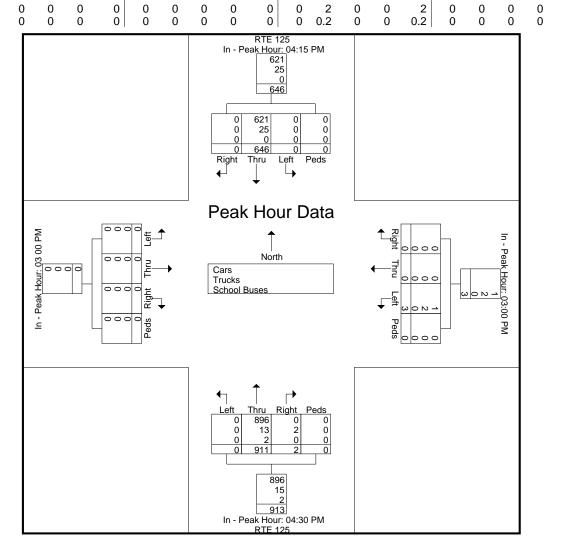
0

School Buses

% School Buses

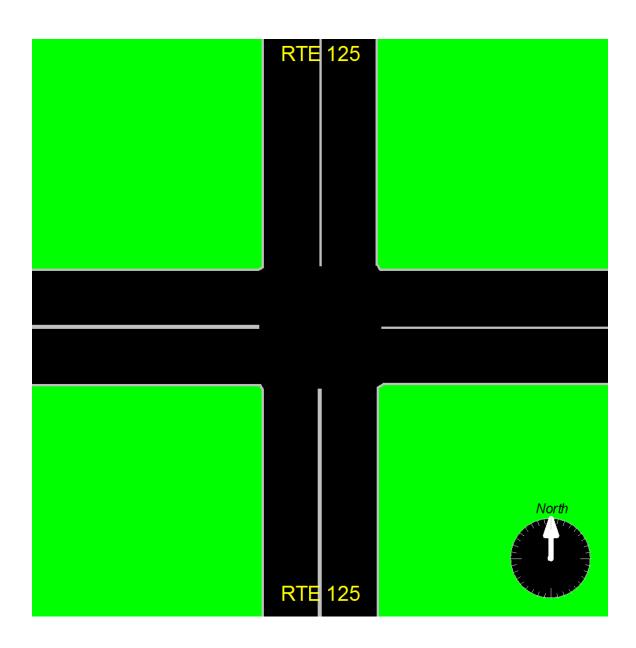
		F	RTE 12	25								F	RTE 1	25							l
		Fr	om No	orth			F	rom E	ast			Fr	om So	outh			Fr	om W	est		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour	Analys	is Fro	m 03:	00 PN	l to 05:4	45 PM	- Pea	ık 1 of	1												
Peak Hour t	or Ea	ch App	oroach	n Begii	ns at:																
	04:15 PM	1				03:00 PM	1				04:30 PM	1				03:00 PM	1				l
+0 mins.	0	166	0	0	166	0	0	2	0	2	0	230	0	0	230	0	0	0	0	0	l
+15 mins.	0	156	0	0	156	0	0	1	0	1	1	225	0	0	226	0	0	0	0	0	l
+30 mins.	0	145	0	0	145	0	0	0	0	0	1	234	0	0	235	0	0	0	0	0	l
+45 mins.	0	179	0	0	179	0	0	0	0	0	0	222	0	0	222	0	0	0	0	0	I
Total Volume	0	646	0	0	646	0	0	3	0	3	2	911	0	0	913	0	0	0	0	0	l
% App. Total	0	100	0	0		0	0	100	0		0.2	99.8	0	0		0	0	0	0		I
PHF	.000	.902	.000	.000	.902	.000	.000	.375	.000	.375	.500	.973	.000	.000	.971	.000	.000	.000	.000	.000	l
Cars	0	621	0	0	621	0	0	1	0	1	0	896	0	0	896	0	0	0	0	0	l
% Cars	0	96. 1	0	0	96.1	0	0	33. 3	0	33.3	0	98. 4	0	0	98.1	0	0	0	0	0	
Trucks	0	25	0	0	25	0	0	2	0	2	2	13	0	0	15	0	0	0	0	0	
% Trucks	0	3.9	0	0	3.9	0	0	66. 7	0	66.7	100	1.4	0	0	1.6	0	0	0	0	0	

0



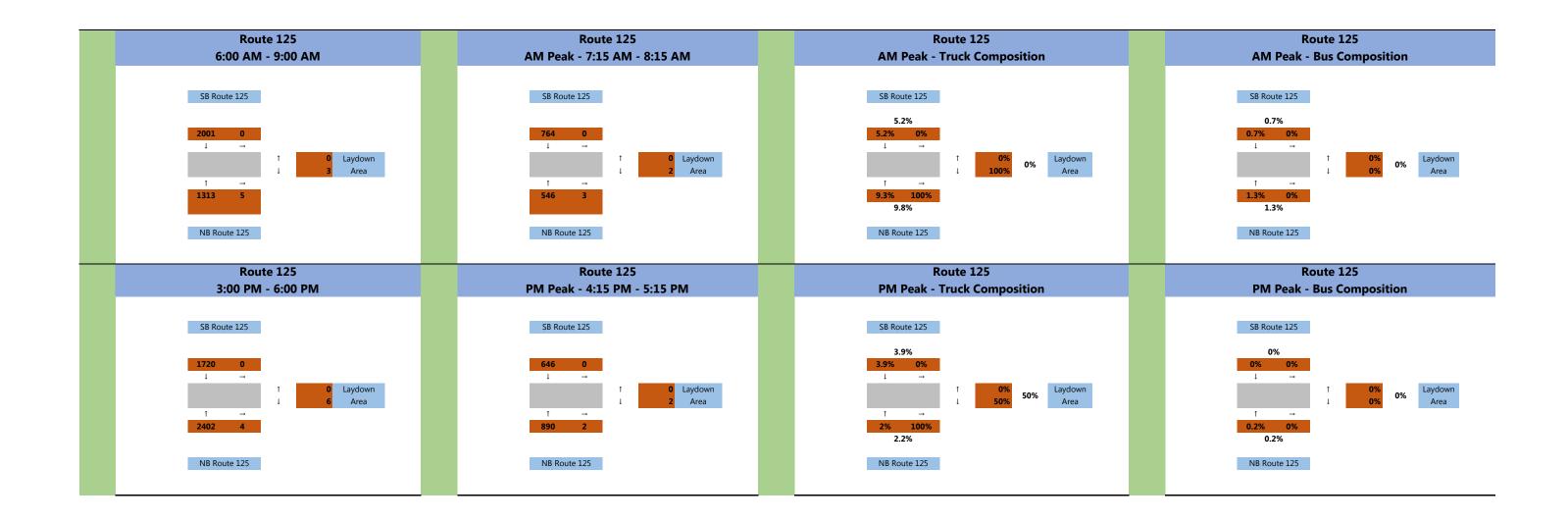
Louis Berger
106 Lafayette Street, Suite 2F
Yarmouth, ME 04096

RTE 125 & Flynn Pit PM Traffic Counts 3:00 PM - 6:00 PM



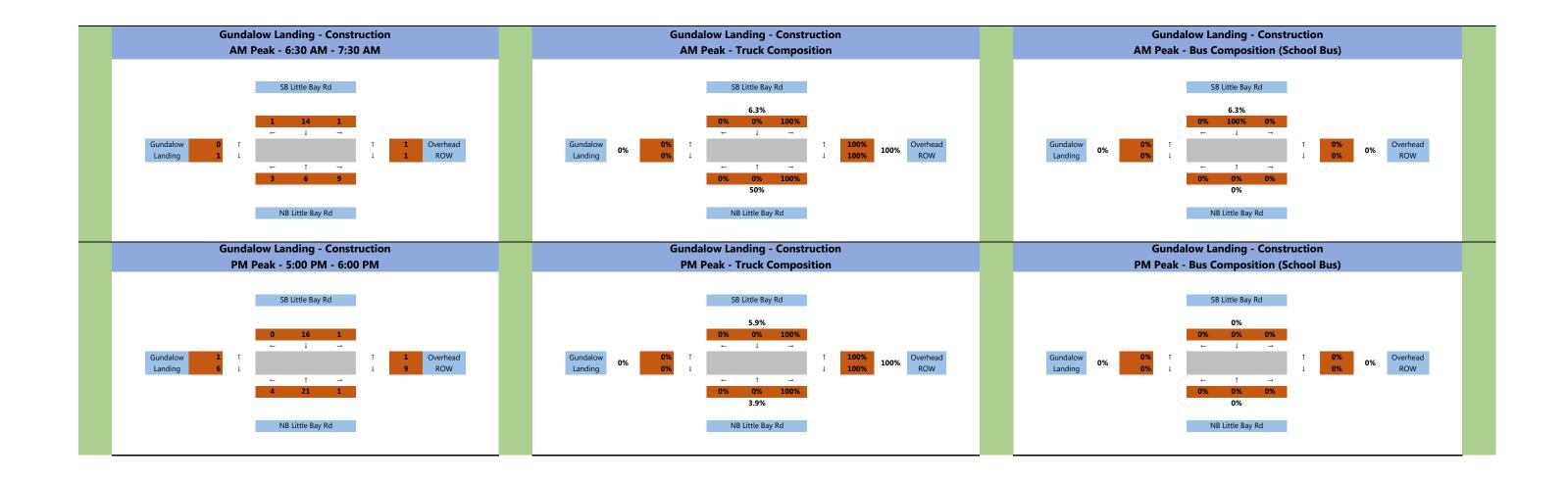
APPENDIX D





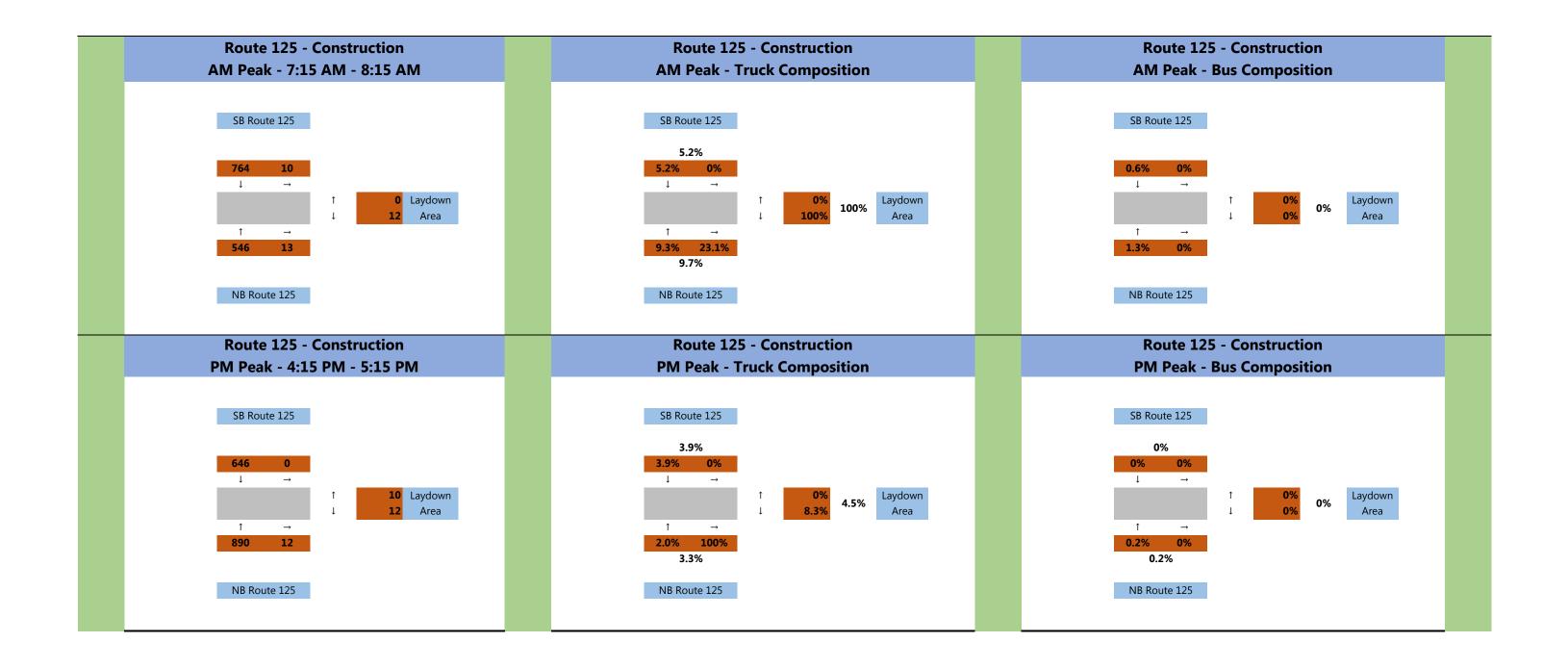
APPENDIX E





APPENDIX F





APPENDIX G



Volume Validation - Gundalow Landing

	Aproach	Movement	Target Volume	Average	GEH	Run	1	Run	2	Run	3	Run	4	Run	5
	-		_	Simulated		Simulated	GEH								
	SB Little Bay Rd	SBT	14	13	0.3	16	0.5	18	1.0	17	0.8	7	2.2	7	2.2
Existing	36 Little Bay Ku	SBR	1	1	0.0	1	0.0	1	0.0	1	0.0	0	1.4	0	1.4
Conditions AM	NB Little Bay Rd	NBL	3	3	0.0	5	1.0	0	2.4	4	0.5	5	1.0	2	0.6
	NB LITTLE BAY KO	NBT	6	7	0.4	9	1.1	8	0.8	6	0.0	5	0.4	7	0.4
	EB Gundalow	EBL	0	0	#DIV/0!										
	Landing	EBR	1	2	0.8	2	8.0	2	8.0	2	8.0	2	8.0	0	1.4

	Aproach	Movement	Target Volume	Average	GEH	Run	1		Run	2	Run	3	Run	4	Run	5
	•			Simulated		Simulated	GEH	L	Simulated	GEH	Simulated	GEH	Simulated	GEH	Simulated	GEH
	CD Little Dev. Dd	SBT	16	14	0.5	17	0.2		20	0.9	18	0.5	7	2.7	7	2.7
Existing	SB Little Bay Rd	SBR	0	0	#DIV/0!	0	#DIV/0!		0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
Conditions PM	NB Little Bay Rd	NBL	4	4	0.0	4	0.0	İ	3	0.5	5	0.5	3	0.5	4	0.0
	NB LILLIE BAY KU	NBT	21	23	0.4	19	0.4		26	1.0	26	1.0	22	0.2	23	0.4
	EB Gundalow	EBL	1	1	0.0	2	8.0		0	1.4	2	0.8	2	0.8	1	0.0
	Landing	EBR	6	5	0.4	4	0.9		4	0.9	7	0.4	4	0.9	5	0.4

	Amenah	Mayamant	Target Volume	Average	GEH	Run	1	Run	2		Run	3	Run	4	Run	5
	Aproach	wovement	Target volume	Simulated	GEH	Simulated	GEH	Simulated	GEH	Sir	mulated	GEH	Simulated	GEH	Simulated	GEH
		SBL	1	1	0.0	3	1.4	0	1.4		0	1.4	0	1.4	2	8.0
	SB Little Bay Rd	SBT	14	14	0.0	18	1.0	20	1.5		19	1.2	9	1.5	6	2.5
		SBR	1	1	0.0	1	0.0	1	0.0		1	0.0	0	1.4	0	1.4
		NBL	3	3	0.0	5	1.0	0	2.4		4	0.5	5	1.0	2	0.6
Work Zone AM	NB Little Bay Rd	NBT	6	8	8.0	10	1.4	9	1.1		8	8.0	5	0.4	7	0.4
		NBR	9	8	0.3	10	0.3	7	0.7		11	0.6	10	0.3	4	2.0
	EB Gundalow	EBL	0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!		0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
	Landing	EBR	1	2	8.0	2	0.8	2	0.8		2	8.0	2	0.8	0	1.4
	MD Florer Did	WBL	1	1	0.0	0	1.4	1	0.0		0	1.4	2	0.8	0	1.4
	WB Flynn Pit	WBR	1	1	0.0	2	8.0	1	0.0		2	8.0	0	1.4	0	1.4

	Aproach	Movement	Target Volume	Average	GEH	Run	1	Run	2	R	un	3	Run	4	Run	5
	Aproacii	wovement	Target volume	Simulated	GEH	Simulated	GEH	Simulated	GEH	Simu	lated	GEH	Simulated	GEH	Simulated	GEH
		SBL	1	1	0.0	3	1.4	0	1.4		0	1.4	0	1.4	2	8.0
	SB Little Bay Rd	SBT	16	19	0.7	21	1.2	24	1.8	- 1	25	2.0	11	1.4	12	1.1
		SBR	0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!		0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
		NBL	4	4	0.0	4	0.0	3	0.5		5	0.5	3	0.5	4	0.0
Work Zone PM	NB Little Bay Rd	NBT	21	24	0.6	20	0.2	27	1.2	- 1	28	1.4	23	0.4	24	0.6
		NBR	1	1	0.0	0	1.4	1	0.0		1	0.0	3	1.4	2	8.0
	EB Gundalow	EBL	1	1	0.0	2	0.8	0	1.4		2	8.0	2	8.0	1	0.0
	Landing	EBR	6	5	0.4	4	0.9	4	0.9		7	0.4	4	0.9	5	0.4
1	M/D Flower Did	WBL	9	7	0.7	8	0.3	9	0.0		5	1.5	6	1.1	6	1.1
	WB Flynn Pit	WBR	1	1	0.0	1	0.0	1	0.0		2	0.8	1	0.0	1	0.0

Average Queue Length - Gundalow Landing

Existing Conditions AM	Location	Ave. Maximum Queue Length (ft)	Run Max Queue	1 Length (ft)	Run Max Queue	2 Length (ft)	Run Max Queue	3 Length (ft)	Run Max Que	4 e Length (ft)	-	Run Max Queue	5 Length (ft)
	EB Gundalow	15	22	2	20	0	20)		19	1	0	

Existing Conditions PM	Location	Ave. Maximum Queue Length (ft)	Run Max Queue	1 Length (ft)	Run Max Queue	2 Length (ft)	Run Max Queue	3 Length (ft)	м	Run Iax Queue	4 Length (ft)	Run Max Queue L	.ength (ft)
	EB Gundalow	25	22	2	2:	1	46	5	-	22	!	26	

	Location	Ave. Maximum Queue Length (ft)	Run Max Queue	1 Length (ft)	Run Max Queue	2 Length (ft)	Run Max Queue	3 Length (ft)	Run Max Queue	4 Length (ft)	Run Max Queue	5 Length (ft)
Work Zone AM	NB Little Bay	60	62	2	63	1	61		6	51	59)
	SB Little Bay	45	61	1	29	9	29		4	14	63	3
	EB Gundalow	15	23	3	22	2	21		2	22	0	
	WB Flynn	50	62	2	60)	61		6	52	0	

	Location	Ave. Maximum Queue Length (ft)		Run 1 Max Queue Length (ft)	Run 2 Max Queue Length (ft)		Run 3 Max Queue Length (ft)	Run 4 Max Queue Length (ft)	Run 5 Max Queue Length (ft)
Work Zone PM	NB Little Bay	55	1	44	63		63	62	50
Work Zone Pivi	SB Little Bay	50	1	62	47		29	45	63
	EB Gundalow	35		46	22	1	45	23	43
	WB Flynn	65		63	64		63	63	61

Average Delay - Gundalow Landing

Existing	A l-	Average	Run	1	Run	2	Run	3	Run	4	Run	5
Conditions AM	Aproach	Delay (sec)	Average D	elay (sec)	Average D	elay (sec)	Average De	elay (sec)	Average D	elay (sec)	Average D	elay (sec)
Conditions Aivi	EB Gundalow	2.3	2.	5	2.5	5	3.5	5	3.0)	0.0	ο

Existing	Annaadh	Average	Run	1	Run	2	Run	3	Run	4	Run	5
Conditions PM	Aproach	Delay (sec)	Average D	elay (sec)	Average De	elay (sec)	Average D	elay (sec)	Average D	elay (sec)	Average D	elay (sec)
Colluitions Pivi	EB Gundalow	2.7	2.9	9	2.5	;	2.9	9	2.	3	2.7	7

	America	Average	Run	1	Run	2	Run	3		Run	4	Run	5
	Aproach	Delay (sec)	Average D	elay (sec)	Average D	elay (sec)	Average D	elay (sec)		Average D	elay (sec)	Average D	elay (sec)
Work Zone AM	NB Little Bay	1.8	2.3	2	2.1	L	1.2	2		1.	9	1.9	9
Work Zone Aw	SB Little Bay	4.0	3.0		4.7	7	3.2	2	lΓ	4.	9	4.3	3
	EB Gundalow	5.7	13.	1	5.0)	5.3	1	lΓ	5.	3	0.0)
	WB Flynn	4.1	5.	5	4.2	2	5.0	0		5.	ŝ	0.0)

	Aproach	Average	Run 1		Run	2	Run	3	Run	4	Run	- 5
	Aproach	Delay (sec)	Average Delay (sec)		Average De	lay (sec)	Average Do	elay (sec)	Average D	elay (sec)	Average Dela	ay (sec)
Work Zone PM	NB Little Bay	4.2	3.5	1	6.4		4.3	3	2.	5	4.0	
Work Zone Pivi	SB Little Bay	5.3	4.8		5.5		4.6	5	4.	9	6.7	
	EB Gundalow	7.2	10.3		4.8		7.1	L	7.	7	6.1	
	WB Flynn	8.2	6.0		7.1		8.0)	10	.6	9.3	

Level of Service - Little Bay & Gundalow Landing

	Aproach	Movement	Target Volume (veh)	Simulated Volume (veh)	Max Simulated Queue (ft)	Simulated Delay (s/veh)	Level of Service
Fraintin a	SB Little Bay Rd	SBT	14	13	0	0.0	Α
Existing Conditions AM	36 Little Bay Ku	SBR	1	1	O	0.0	Α
Conditions Aivi	ND Little Day Del	NBL	3	3	0	0.0	^
	NB Little Bay Rd	NBT	6	7	U	0.0	Α
	EB Gundalow	EBL	0	0	15	2.2	Δ.
	Landing	EBR	1	2	15	2.3	Α

	Aproach	Movement	Target Volume (veh)	Simulated Volume (veh)	Max Simulated Queue (ft)	Simulated Delay (s/veh)	Level of Service
	SB Little Bay Rd	SBT	16	14	0	0.0	Α
Existing	SB LITTIE Bay Ku	SBR	0	0	U	0.0	A
Conditions PM	ND Little Day Del	NBL	4	4	0	0.0	
	NB Little Bay Rd	NBT	21	23	0	0.0	Α
	EB Gundalow	EBL	1	1	25	2.7	^
	Landing	EBR	6	5	25	2.7	Α

	Aproach	Movement	Target Volume (veh)	Simulated Volume (veh)	Max Simulated Queue (ft)	Simulated Delay (s/veh)	Level of Service
		SBL	1	1			
	SB Little Bay Rd	SBT	14	14	45	4.0	Α
		SBR	1	1			
Work Zone AM		NBL	3	3			
	NB Little Bay Rd	NBT	6	8	60	1.8	Α
		NBR	9	8			
	EB Gundalow	EBL	0	0	15	5.7	Α
	Landing	EBR	1	2	15	5.7	A
	WB Flynn Pit	WBL	1	1	F0	4.1	Α
	VVB FIYNN PIL	WBR	1	1	50	4.1	A

	Aproach	Movement	Target Volume (veh)	Simulated Volume (veh)	Max Simulated Queue (ft)	Simulated Delay (s/veh)	Level of Service
		SBL	1	1			
	SB Little Bay Rd	SBT	16	19	50	5.3	Α
		SBR	0	0			
Work Zone PM		NBL	4	4			
	NB Little Bay Rd	NBT	21	24	55	4.2	Α
		NBR	1	1			
	EB Gundalow	EBL	1	1	35	7.2	А
	Landing	EBR	6	5	33	7.2	A
	WP Elymp Dit	WBL	9	7	65	8.2	А
	WB Flynn Pit	WBR	1	1	05	0.2	А

APPENDIX H



Volume Validation - Route 125

	Aproach	Movement	Target Volume	Average	GEH		Run	1	Run	2	Run	3	Run	4	Run	5
	Aproacii	Wovernent	rarget volume	Simulated	GEN		Simulated	GEH								
Eulatina	SB RTE 125	SBL	0	0	#DIV/0!	1	0	#DIV/0!								
Existing Conditions	36 KIE 123	SBT	764	764	0.0	1	806	1.5	731	1.2	758	0.2	758	0.2	766	0.1
AM	NB RTE 125	NBT	546	559	0.6		583	1.6	587	1.7	554	0.3	520	1.1	551	0.2
AIVI	ND KIE 125	NBR	3	3	0.0	1	3	0.0	3	0.0	2	0.6	4	0.5	3	0.0
	M/D I accelerate	WBL	2	1	8.0		3	0.6	0	2.0	1	0.8	1	8.0	2	0.0
	WB Laydown	WBR	0	0	#DIV/0!	1	0	#DIV/0!								

	Ammaaah	Massamant	Target Volume	Average	GEH	Run	1	Run	2	Run	3	Run	4		Run	5
	Aproach	wovement	rarget volume	Simulated	GEH		Simulated	GEH								
Profession or	SB RTE 125	SBL	0	0	#DIV/0!	Γ	0	#DIV/0!								
Existing Conditions	36 KIE 123	SBT	646	642	0.2	679	1.3	616	1.2	650	0.2	637	0.4	Π	628	0.7
PM	NB RTE 125	NBT	890	910	0.7	940	1.7	964	2.4	908	0.6	849	1.4	ı	889	0.0
PIVI	ND KIE 125	NBR	2	2	0.0	3	0.6	3	0.6	0	2.0	2	0.0	Γ	3	0.6
	W/B Lavidavin	WBL	2	2	0.0	5	1.6	1	0.8	1	8.0	1	8.0	ı	2	0.0
	WB Laydown	WBR	0	0	#DIV/0!	ſ	0	#DIV/0!								

	Aproach	Movement	Target Volume	Average	GEH	Run	1	Run	2		Run	3	П	Run	4	П	Run	5
	Aproacii	Wovernerit	rarget volume	Simulated	5	Simulated	GEH	Simulated	GEH		Simulated	GEH	L	Simulated	GEH		Simulated	GEH
	SB RTE 125	SBL	10	12	0.6	11	0.3	11	0.3	Г	17	1.9	Γ	10	0.0	. [10	0.0
Work Zone	36 KIE 123	SBT	764	765	0.0	805	1.5	731	1.2		755	0.3		762	0.1		772	0.3
AM	NB RTE 125	NBT	546	558	0.5	582	1.5	586	1.7		551	0.2	Γ	521	1.1		550	0.2
	ND KIE 125	NBR	13	15	0.5	13	0.0	10	0.9	Г	14	0.3	Π	21	1.9		15	0.5
	WB Laydown	WBL	12	11	0.3	15	8.0	7	1.6		10	0.6	Γ	10	0.6		13	0.3
	WB Laydown	WBR	0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!		0	#DIV/0!	Ī	0	#DIV/0!		0	#DIV/0!

	Ammanah	Massamant	Townst Volume	Average	GEH	Run	1	Run	2	Run	3	Run	4	Run		5
	Aproach	wovement	Target Volume	Simulated	GER	Simulated	GEH	Simulated	GEH	Simulated	GEH	Simulated	GEH	Simulat	d	GEH
	SB RTE 125	SBL	0	0	#DIV/0!	0		#DIV/0!								
Work Zone	36 KIE 125	SBT	646	642	0.2	679	1.3	616	1.2	650	0.2	637	0.4	628		0.7
PM	NB RTE 125	NBT	890	910	0.7	941	1.7	964	2.4	914	0.8	837	1.8	896		0.2
	ND KIE 125	NBR	12	11	0.3	10	0.6	10	0.6	7	1.6	18	1.5	10		0.6
	WB Laydown	WBL	12	12	0.0	15	8.0	12	0.0	13	0.3	12	0.0	7		1.6
	WB Laydown	WBR	10	10	0.0	5	1.8	11	0.3	14	1.2	9	0.3	11		0.3

Average Queue Length - Route 125

Standard deviation

				Standard deviation										
			Ave. Maximum		Run	1	Run	2	Run	3	Run	4	Run	5
Fortation of Council	l's' A B A	Location	Queue Length (ft)		Max Queue	Length (ft)								
Existing Cond	litions Aivi	NB RTE 125	0		0		0		0		()	0	
		SB RTE 125	0		0		0		0		()	0	
		Laydown Area	45		62	2	0		40)	6	1	60)

		Ave. Maximum	Run	1		Run	2	Rui		3		Run	4	Run	5
Faireton Conditions DA	Location	Queue Length (ft)	Max Queue	Length (f	t)	Max Queue	Length (ft)	Max Q	ieue L	ength (ft)	Ма	ax Queue	Length (ft)	Max Queue	Length (ft)
Existing Conditions PM	NB RTE 125	0	()		0			0			0		0)
	SB RTE 125	0	()		0			0			0		0)
	Laydown Area	35	6	2		20)		22			22	2	60	0

		Ave. Maximum		Run	1	Run 2		Run	3	Ru	n		4			Run
	Location	Queue Length (ft)		Max Queue I	Length (ft)	Max Queue Length	(ft)	Max Queue	Length (ft)	Max Q	ueue	Leng	jth (ft)			Max Queu
Work Zone AM	NB RTE 125	0	1	0		0		C			0)		1		
	SB RTE 125	10]	0		0		5:	3		0)			I	
	Laydown Area	75	1	80		61		6:	3		10)1		1		

	Location	Ave. Maximum	Run	1	Run	2	Run	3	Run	4		Run	5
	Location	Queue Length	Max Queue	Length (ft)		Max Queue I	Length (ft)						
Work Zone PM	NB RTE 125	0	C)	0		0)	C)		0	
	SB RTE 125	0	C)	0		0)	C)		0	
	Laydown Area	65	62	2	50		97	7	5	6	1 1	70)

Average Delay - Route 125

	Ammanah	Average	Run	1	Run	2	Run	3	Run	4		Run	5
Existing	Aproach	Delay (sec)	Average D	Pelay (sec)	Average D	elay (sec)	Average D	elay (sec)	Averag	Delay (sec)		Average D	elay (sec)
Conditions	NB RTE 125	0.0	0.	.0	0.0)	0.0)		0.0		0.0)
AM	SB RTE 125	0.0	0.	.0	0.0)	0.0)		0.0	1	0.0)
	Laydown Area	13.4	17	'.1	0.0)	20.	0		15.4	1	14.	.7

	Aproach	Average	Run	1		Run	2	Run	3	Run	4		Run	5
Existing	Aproacii	Delay (sec)	Average D	elay (sec)		Average De	elay (sec)	Average D	elay (sec)	Average D	elay (sec)		Average De	elay (sec)
Conditions	NB RTE 125	0.0	0.0)		0.0		0.0)	0.	0		0.0)
PM	SB RTE 125	0.0	0.0)		0.0		0.0)	0.	0	1 1	0.0)
	Lavdown Area	22.2	12	0	1 1	26.2	2	10.	1	35	.3	1 1	27.3	3

	Awwaash	Average	Run	1	Run	2	Run	3	Run	4	Run	5
Work Zone	Aproach	Delay (sec)	Average D	elay (sec)	Average De	elay (sec)						
AM	NB RTE 125	0.0	0.	0	0.0)	0.0)	0.	0	0.0	0
AIVI	SB RTE 125	0.0	0.	0	0.0)	0.0)	0.	0	0.0	0
	Laydown Area	11.3	10	1.6	17.	9	8.8	3	11		7.5	5

	A	Average	Run	1		Run	2		Run	3	Run	4	Run	5	
Mark Zana	Aproach	Delay (sec)	Average D	elay (sec)		Average D	elay (sec)		Average D	elay (sec)	Average	Delay (sec)	Average De	elay (sec)	
Work Zone PM	NB RTE 125	0.0	0.	0	ĺ	0.0)	li	0.0	0		0.0	0.0)	
PIVI	SB RTE 125	0.0	0.	0		0.0)		0.0	0		0.0	0.0)	
	Laydown Area	17.4	18	.8		15.	1		24	.0	1	4.8	14.5	5	J

Level of Service - Route 125 & Laydown/Staging Area

	Aproach	Movement	Target Volume (veh)	Simulated Volume (veh)	Max Simulated Queue (ft)	Simulated Delay (s/veh)	Level of Service
Existing	NB Route 125	NBT	546	559	0	0.0	Α
Conditions AM	ND Route 125	NBR	3	3	Ü	0.0	7
Conditions Aivi	SB Route 125	SBL	0	0	0	0.0	Α
	36 Route 125	SBT	764	764	U	0.0	A
	Laydown Area	WBL	2	1	45	13.4	В
	Laydown Area	WBR	0	0	45	13.4	В

	Aproach	Movement	Target Volume (veh)	Simulated Volume (veh)	Max Simulated Queue (ft)	Simulated Delay (s/veh)	Level of Service
.	NB Route 125	NBT	890	910	0	0.0	Α
Existing	ND Route 123	NBR	2	2	U	0.0	Α
Conditions PM	CP Pouto 125	SBL	0	0	0	0.0	Α
	SB Route 125	SBT	646	642	U	0.0	A
	Laudaum Araa	WBL	2	2	35	22.2	С
	Laydown Area	WBR	0	0	33	22.2	C

	Aproach	Movement	Target	Simulated	Max Simulated Queue (ft)	Simulated Delay	Level of Service
			Volume	Volume	Queue (II)	Delay	Service
	ND Davida 125	NBT	546	558	0	0.0	Α
l	NB Route 125	NBR	13	15	U	0.0	А
Work Zone AM	SB Route 125	SBL	10	12	10	0.0	А
	36 Route 123	SBT	764	765	10	0.0	А
	Laudaum Araa	WBL	12	11	75	11.3	В
	Laydown Area	WBR	0	0	/5	11.5	Ď

	Aproach	Movement	Target	Simulated	Max Simulated	Simulated	Level of
	Aproacti	Movement	Volume	Volume	Queue (ft)	Delay	Service
	NB Route 125	NBT	890	910	0	0.0	Α
	NB Route 125	NBR	12	11	O	0.0	A
Work Zone PM	SB Route 125	SBL	0	0	0	0.0	А
	36 Route 125	SBT	646	642	O	0.0	А
	Laydown Area	WBL	12	12	65	17.4	С
		WBR	10	10	05	17.4	C