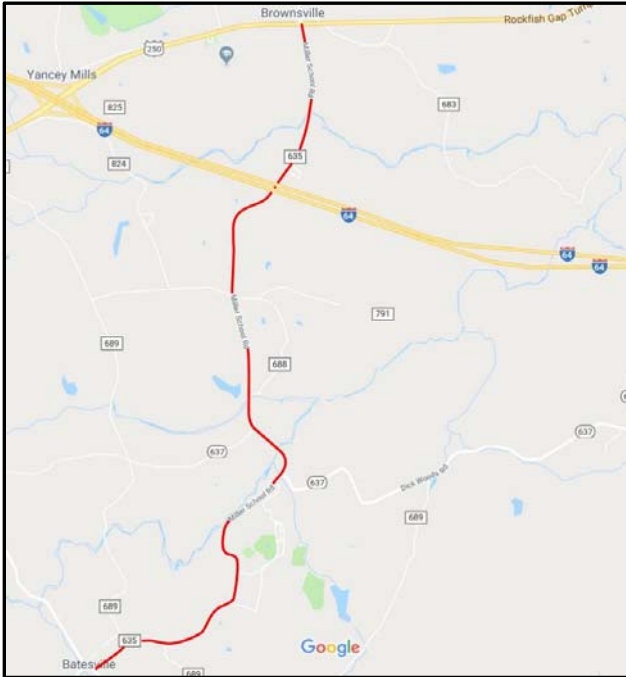


Through Truck Restriction Study

Miller School Road (Route 635)

County of Albemarle

Date: September 19, 2018



Miller School Road (Route 635)

Start: US 250 (Rockfish Gap Turnpike)

End: Plank Road (Route 692)

Segment Length: 5.0 miles

Functional Classification: Major Collector

Purpose of Study

To determine if truck traffic should be restricted along Miller School Road based upon Virginia Commonwealth Transportation Board (CTB) Criteria.

Through Truck Route:

US 29 ↔ Plank Rd ↔ Miller School Rd ↔ US 250 ↔ I-64

Length: 11.3 Miles

Average Truck Speed: 34.2 mph

Total Travel Time: 19.8 minutes



AMT and Associates, Inc.
Chantilly, Virginia
Traffic Engineer

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Appendix

- a. Raw Traffic Count Data
- b. Raw Crash Data

STUDY PURPOSE

A. Morton Thomas and Associates, Inc. (AMT) has prepared a *Through Truck Restriction Study* for Miller School Road (Route 635) located in Albemarle County, Virginia. Miller School Road is a north-south two-lane rural roadway (5-miles in length) classified as a Major Collector that connects US 250 (Rockfish Gap Turnpike) to Plank Road (Route 692). Currently, trucks utilize Miller School Road as a short-cut to travel between US 29, via Plank Road, and US 250. The purpose of this Study is to document the impacts of trucks traveling along Miller School Road and provide conclusions regarding the potential for implementing future restrictions based upon criteria set forth by the Virginia Commonwealth Transportation Board (CTB). According to the Code of Virginia § 46.2-809, “A through truck is defined as any truck or truck and trailer or semitrailer combination, except a pickup or panel truck, that travels from one point to another and having no origin or destination along the route(s) traveled”.

The following maximum vehicle dimensions currently allowed on Miller School Road are based upon “*Virginia’s Size, Weight and Equipment Requirements for Trucks Trailers and Towed Vehicles*, by the Virginia Department of Motor Vehicles:

Maximum Length

Truck - 40 feet excluding load.

Semi-trailer- 53 feet.

Twin Trailers - Not permitted.

Tractor Semi-trailer Combinations - No overall length limitations except where prohibited.

Combination of a towing vehicle and any manufactured home - 65 feet including load.

Maximum Width

All Vehicles - 102 inches excluding mirror and any warning device installed on a school bus.

Maximum Height

All Vehicles - 13 feet 6 inches.

VIRGINIA COMMONWEALTH TRANSPORTATION BOARD (CTB) CRITERIA

The following criteria were adopted by the Virginia Commonwealth Transportation Board (CTB) on October 16, 2003 and included in: “*Guidelines for Considering Requests to Restrict Through Trucks on Primary and Secondary Highways*”.

Criteria:

Travel by any class of vehicle should be restricted only upon demonstration that it will promote the health, safety and welfare of the citizens of the Commonwealth without creating an undue hardship on any users of the transportation network. The Virginia Department of Transportation will consider criteria 1 through 4 in reviewing a requested through truck restriction. The proposed restriction must meet both the first and second criteria in order to be approved:

1. Reasonable alternate routing is provided. The alternate route will be evaluated for traffic and safety related impacts. To be considered "reasonable", the alternate route(s) must be engineered to a standard sufficient for truck travel, and must be judged at least as appropriate for truck traffic as the requested truck restriction route. If an alternate route must be upgraded, the improvement shall be completed before the truck restriction can be implemented. The termini of the proposed restriction must be identical to the alternate routing to allow a time and distance comparison to be conducted between the two routings. Also, the alternate routing must not create an undue hardship for trucks in reaching their destination.
2. The character and/or frequency of the truck traffic on the route proposed for restriction is not compatible with the affected area. Evaluation will include safety issues, accident history, engineering of the roadway, vehicle composition, and other traffic engineering related issues.

In addition to meeting the first two criteria, the proposed restriction must meet either the third or the fourth criteria in order to be approved.

3. The roadway is residential in nature. Typically, the roadway will be judged to be residential if there are at least 12 dwellings combined on both sides within 150' of the existing or proposed roadway center line per 1,000 feet of roadway.
4. The roadway must be functionally classified as either a local or collector.

TRAFFIC COUNTS

Using mio-vision camera technology, AMT collected 48-hour (in 15-minute increments) turning movements at the intersections of Miller School Road (Route 635) at US 250 (Rockfish Gap Turnpike), Miller School Road at Plank Road (Route 692) and Plank Road at US 29 (Monacan Trail Road) from March 14, 2018 (Wednesday) through March 15, 2018 (Thursday). The data was reduced to provide standard two (2) axle vehicles, long wheelbase box trucks and tractor trailers. The following summarizes the vehicle composition based upon the traffic count data collected along Miller School Road:

- Two-way ADT = 1099 vpd (south of Dick Woods Rd) to 2330 vpd (north of Dick Woods Rd)
- Total Trucks (Non Pick-up) = 118 vpd (south of Dick Woods Rd) to 148 vpd (north of Dick Woods Rd)

Raw traffic count data worksheets are provided in the **Appendix** section of this report.

CRASH DATA

Virginia Roads Open Data was utilized to compile the most recent five (5) years of historic crash data (2013-2017) along Miller School Road (Route 635), from US 250 (Rockfish Gap Turnpike) to Plank Road (Route 692), in Albemarle County. Accordingly, the crash data was reviewed and documented for Years 2013-2017 to include the date, location, direction of travel, collision type, driver injury type and vehicle type. According to FHWA's methodology for calculating crash rates, **Miller School Road, maintains a crash rate of 164.62 crashes per 100 million vehicle-miles of travel north of Dick Woods Road and 324.08 million vehicle-miles of travel south of Dick Woods Road.** The Culpeper District Average for 2-lane Rural Roads is 147.08. Crash Rate calculations are provided in the **Appendix** section of this Study. The following summarizes the crash data compiled between the Years 2013 and 2017:

- **Miller School Road (Route 635)**
 - 34 total crashes occurred over the five (5) year period.
 - Vehicle Types (all vehicles involved): 20 Cars, 15 Pick-up Trucks/Vans/SUVs, 3 Trucks.
 - Collision Types: 23 Fixed Object, 3 Angle, 3 “Other”, 2 Deer-Related 1 Rear-End, 1 Sideswipe, 1 Backed Into.
 - Drive Injury Types: 27 Property Damage Only, 4 Non-Incapacitating Injury, 2 Incapacitating Injury, 1 fatality.

- **US 250 (Rockfish Gap Turnpike) at Miller School Road**
 - 22 total crashes occurred over the five (5) year period.
 - Vehicle Types (all vehicles involved): 21 Cars, 33 Pick-up Trucks/Vans/SUVs, 3 Trucks.
 - Collision Types: 8 Rear-End, 5 Fixed Object, 4 Angle, 2 Head-on, 2 Sideswipe, 1 “Other”.
 - Drive Injury Types: 20 Property Damage Only, 2 Non-Incapacitating Injury.

- **Plank Road (Route 692) at Miller School Road**
 - 7 total crashes occurred over the five (5) year period.
 - Vehicle Types (all vehicles involved): 7 Cars, 4 Pick-up Trucks/Vans/SUVs.
 - Collision Types: 3 Fixed Object, 2 Head-on, 1 Angle, 1 Sideswipe.
 - Drive Injury Types: 6 Property Damage Only, 1 Non-Incapacitating Injury.

Figures 1 and 2 provide the five-year crash data along Miller School Road as well as at the intersections of US 250 & Miller School Road and Plank Road & Miller School Road.

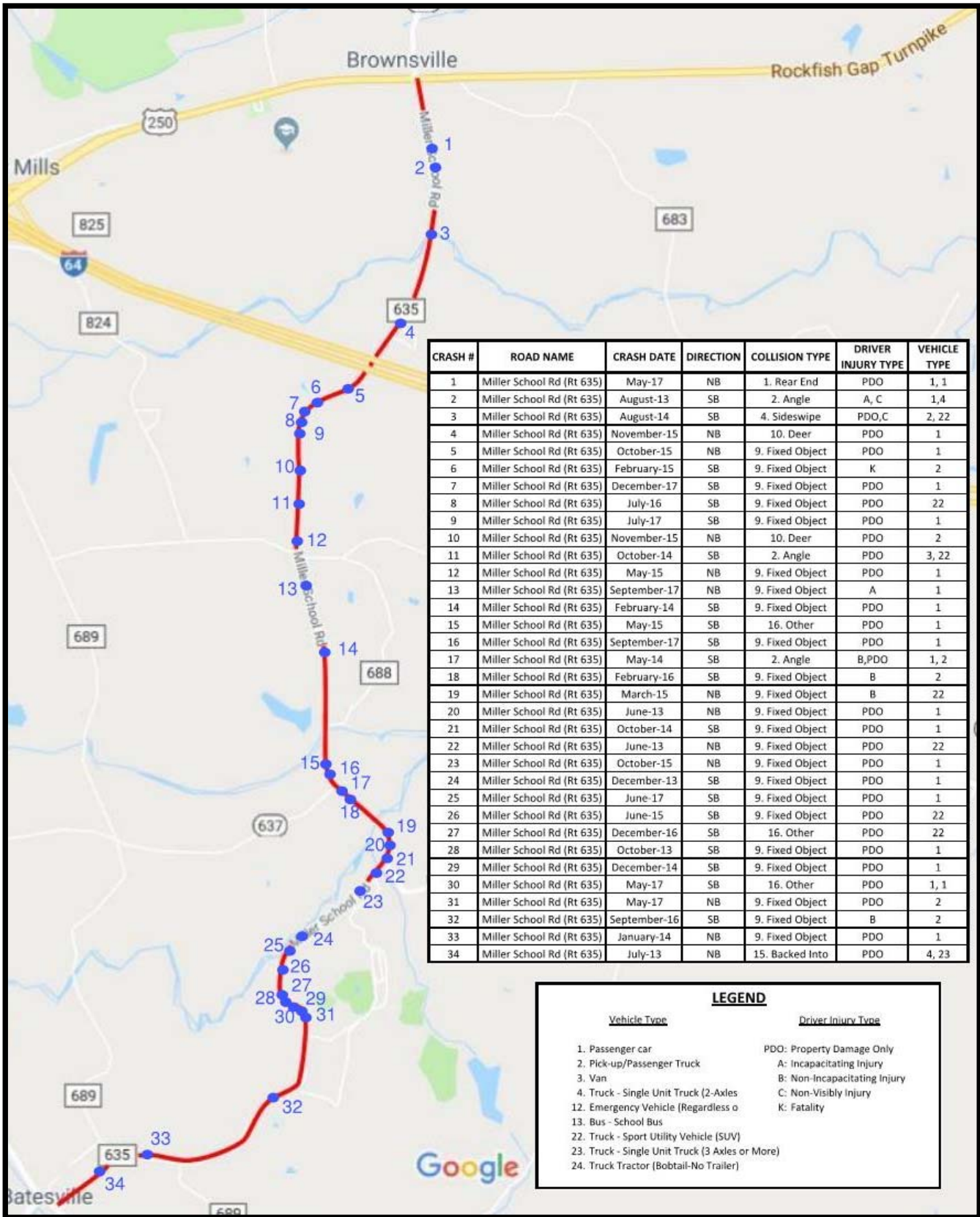
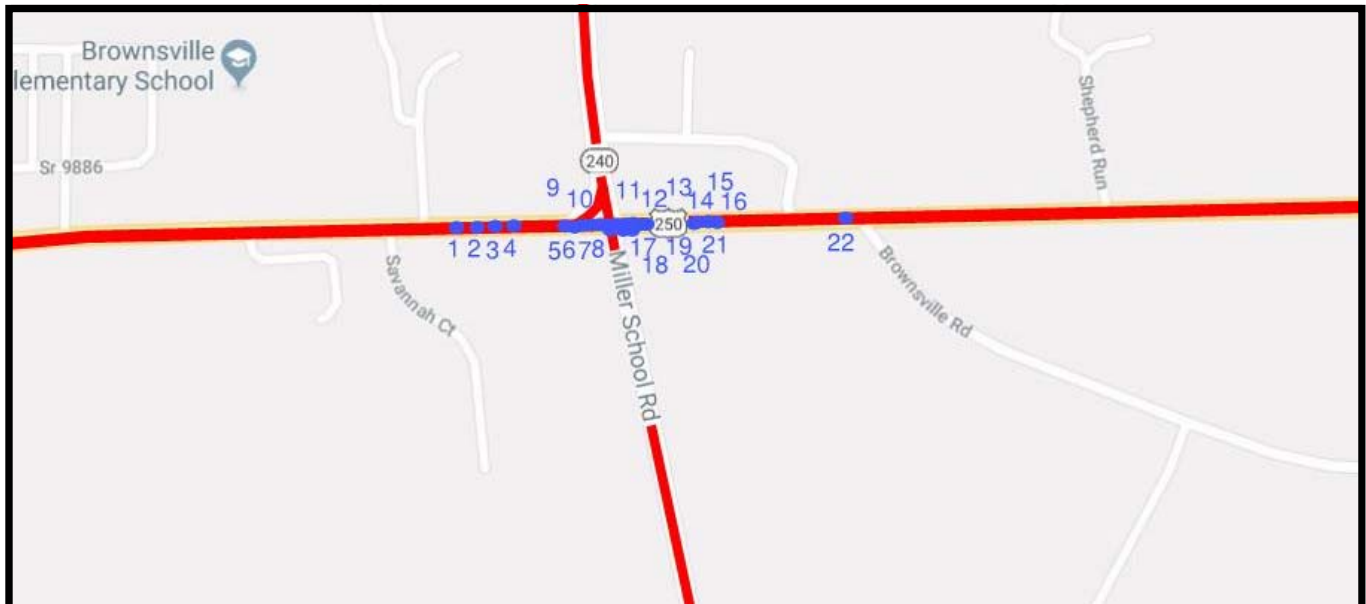


Figure 1: Five-Year Roadway Crash Data - Miller School Road (Route 635)



CRASH #	ROAD NAME	CRASH DATE	DIRECTION	COLLISION TYPE	DRIVER INJURY TYPE	VEHICLE TYPE
1	Rockfish Gap Tpke (US 250)	April-17	EB	3. Head On	PDO	1, 12
2	Rockfish Gap Tpke (US 250)	April-17	WB	1. Rear End	PDO,B	22, 3, 1
3	Rockfish Gap Tpke (US 250)	August-16	EB	9. Fixed Object	PDO	2
4	Rockfish Gap Tpke (US 250)	October-16	EB	1. Rear End	PDO	22, 1
5	Rockfish Gap Tpke (US 250)	February-13	EB	4. Sideswipe	PDO	22, 1
6	Rockfish Gap Tpke (US 250)	August-13	EB	3. Head On	PDO	1, 22
7	Rockfish Gap Tpke (US 250)	March-17	EB	1. Rear End	PDO	1, 22, 1, 1, 1
8	Rockfish Gap Tpke (US 250)	March-17	EB	1. Rear End	PDO	1, 2
9	Rockfish Gap Tpke (US 250)	March-17	WB	2. Angle	PDO	22, 1
10	Rockfish Gap Tpke (US 250)	April-17	WB	1. Rear End	PDO	2, 13
11	Rockfish Gap Tpke (US 250)	February-13	EB	16. Other	PDO	2, 2
12	Rockfish Gap Tpke (US 250)	May-13	EB	1. Rear End	PDO	1, 2, 1, 2
13	Rockfish Gap Tpke (US 250)	February-13	EB	1. Rear End	PDO	22, 1, 22
14	Rockfish Gap Tpke (US 250)	May-13	EB	9. Fixed Object	PDO	24
15	Rockfish Gap Tpke (US 250)	April-14	WB	9. Fixed Object	PDO	1
16	Rockfish Gap Tpke (US 250)	May-14	EB	1. Rear End	PDO	22, 1
17	Rockfish Gap Tpke (US 250)	September-17	EB	2. Angle	PDO	22, 22
18	Rockfish Gap Tpke (US 250)	January-15	EB	2. Angle	PDO	1, 1
19	Rockfish Gap Tpke (US 250)	March-15	EB	5. Sideswipe	B	1, 22
20	Rockfish Gap Tpke (US 250)	August-15	EB	2. Angle	PDO	1, 22
21	Rockfish Gap Tpke (US 250)	October-13	EB	9. Fixed Object	PDO	1
22	Rockfish Gap Tpke (US 250)	June-14	WB	9. Fixed Object	PDO	22

LEGEND

<p><u>Vehicle Type</u></p> <ol style="list-style-type: none"> 1. Passenger car 2. Pick-up/Passenger Truck 3. Van 4. Truck - Single Unit Truck (2-Axles 12. Emergency Vehicle (Regardless o 13. Bus - School Bus 22. Truck - Sport Utility Vehicle (SUV) 23. Truck - Single Unit Truck (3 Axles or More) 24. Truck Tractor (Bobtail-No Trailer) 	<p><u>Driver Injury Type</u></p> <p>PDO: Property Damage Only</p> <p>A: Incapacitating Injury</p> <p>B: Non-Incapacitating Injury</p> <p>C: Non-Visibly Injury</p> <p>K: Fatality</p>
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CRASH #	ROAD NAME	CRASH DATE	DIRECTION	COLLISION TYPE	DRIVER INJURY TYPE	VEHICLE TYPE
1	Plank Rd (Rt 692)	September-15	EB	9. Fixed Object	PDO	1
2	Plank Rd (Rt 692)	December-13	WB	3. Head On	PDO	1, 1
3	Plank Rd (Rt 692)	September-15	WB	5. Sideswipe	B,PDO	1, 2
4	Plank Rd (Rt 692)	November-15	WB	3. Head On	PDO	2, 1
5	Plank Rd (Rt 692)	March-17	WB	2. Angle	PDO	1, 22
6	Plank Rd (Rt 692)	August-17	EB	9. Fixed Object	PDO	1
7	Plank Rd (Rt 692)	August-15	WB	9. Fixed Object	PDO	22

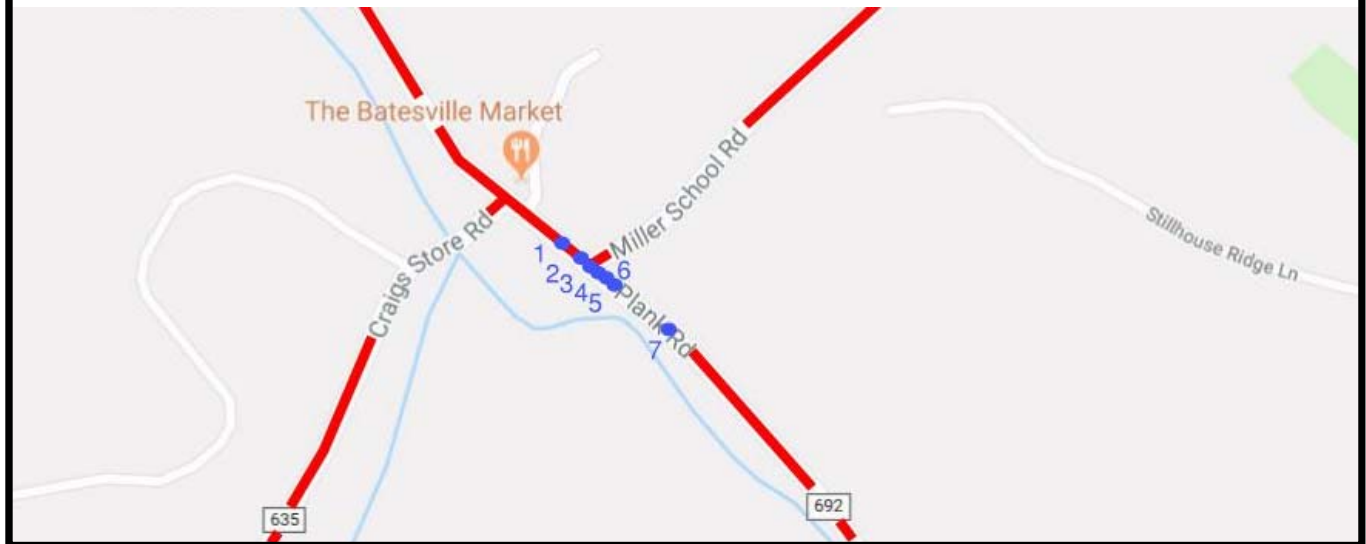


Figure 2: Five-Year Intersection Crash Data - Miller School Road (Route 635) & US 250 (Rockfish Gap Tpke) and Miller School Road & Plank Road (US 692)

ROADWAY CHARACTERISTICS

Roadway Information

Miller School Road (Route 635)

- Segment Start: US 250 (Rockfish Gap Turnpike)
- Segment End: Plank Road (Route 692)
- Roadway Length: 5.0 Miles
- VDOT Functional Classification: “Major Collector”
- Adjacent Land Uses: Residential, Private School (Miller School of Albemarle)
- Key Intersections: US 250, Midway Road (Route 688), Dick Woods Road (Route 637), Miller School of Albemarle Access Roadway, Pounding Creek Road (Route 689), Burchs Creek Road (Route 689) and Plank Road (Route 692).

Figure 4 provides photographs at various locations along northbound and southbound Miller School Road.

Adjacent Residential Uses

Miller School Road provides direct access to sixty-five (65) single-family detached residential units. Per CTB’s Criteria #3 described above, the roadway is judged to be “residential” if there at least 12 dwelling units combined on both sides within 150’ of the centerline per 1000’ of roadway. **Table 1** provides an inventory of the existing residential units located along Miller School Road.

Roadway Geometrics/ Compatibility

AMT referenced the “Geometric Design Standards for Rural Collector Road System (GS-3)” included on Page A-14 of VDOT’s *Road Design Manual* (Issued January 2005 and Revised January 2018) to determine whether Miller School Road is in current compliance with VDOT’s minimum geometric design standards. Based upon the information determined in the previous sections, the following criteria were applied to the standards provided in **Table 2**.

Roadway Classification: Rural Major Collector

Posted Speed: 25 mph to 50 mph (45 mph trucks)

ADT: Varies - 1099 vpd (south of Dick Woods Road) to 2033 vpd (north of Dick Woods Road)

Terrain: Rolling



Figure 3: Photographs along Northbound and Southbound Miller School Road

Table 1
Miller School Road
Inventory of Existing Residential Units

Roadway Segment per 1000'	Inventory of Houses North to South	Offset from Centerline	
		West Side	East Side
1	House #1		140'
	House #2		70'
	House #3	70'	
	House #4		>150'
	Total within 150'		3 Units
2	House #5		>150'
	House #6		>150'
	House #7		>150'
	House #8	>150'	
	House #9		>150'
	House #10		>150'
	House #11		>150'
	House #12		>150'
Total within 150'		0 Units	
3	House #13		>150'
	House #14	>150'	
	House #15	>150'	
	House #16	>150'	
	House #17		>150'
Total within 150'		0 Units	
4	House #18		>150'
	House #19	150'	
Total within 150'		1 Unit	
5	House #20	<150'	
	House #21		150'
	House #22	125'	
	House #23	<150'	
	House #24	145'	
	House #25	110'	
	House #26		>150'
	House #27		>150'
Total within 150'		4 Units	
6	House #28		>150'
	House #29		>150'
	House #30		>150'
	House #31	90'	
	House #32	90'	
	House #33	90'	
	House #34	90'	
	House #35		140'
	House #36	90'	
	House #37		120'
House #38	100'		
Total within 150'		8 Units	
7	House #39		>150'
	House #40	90'	
	House #41	150'	
	House #42		>150'
Total within 150'		2 Units	
8	House #43		>150'
	House #44	130'	
	House #45	>150'	
	House #46	135'	
Total within 150'		2 Units	
9	House #47	>150'	
	House #48	90'	
10	House #49		105'
	House #50		130'
	House #51	>150'	
	House #52	145'	
	House #53	>150'	
Total within 150'		4 Units	
11	House #54		>150'
	House #55		60'
	House #56		45'
	House #57		45'
	House #58	125'	
	House #59	135'	
House #60		95'	
Total within 150'		6 Units	
12	House #61	90'	
	House #62	135'	
	House #63		>150'
	House #64	70'	
	House #65		50'
Total within 150'		4 Units	

Table 2
Miller School Road
Geometric Design Standards for Rural Collector Road System (GS-3)

TRAFFIC VOLUME	TERRAIN	DESIGN SPEED (MPH)	MIN. RADIUS	(8) MINIMUM STOPPING SIGHT DISTANCE	(2) MIN. WIDTH OF LANE	(3) (4) MINIMUM WIDTH OF GRADED SHOULDERS		(5) MINIMUM WIDTH OF DITCH FRONT SLOPE	(6) SLOPE	NEW AND RECONSTRUCTED MINIMUM BRIDGE WIDTHS AND VERTICAL CLEARANCES
						FILL W/GR	CUT & FILL			
(1) ADT OVER 2000	LEVEL	60	1204'	570'	12'	12'	8'	10' @ 6:1	CS-4, CS-4A OR CS-4C	See Footnote (7)
	ROLLING	50	760'	425'				6' @ 4:1		
	MOUNTAINOUS	45	589'	360'					CS-3 / CS-3B	
		40	446'	305'						
(1) ADT 1500 TO 2000	LEVEL	50	760'	425'	11'	10'	6'	6' @ 4:1	CS-4, CS-4A OR CS-4C	
	ROLLING	45	589'	360'				4' @ 4:1		
	MOUNTAINOUS	40	446'	305'					CS-3/ CS-3B	
		35	316'	250'						
	MOUNTAINOUS	30	215'	200'						
		30	215'	200'						
(1) ADT 400 TO 1500	LEVEL	50	760'	425'	11'	(9) 9'	(9) 5'	6' @ 4:1	CS-4, CS-4A OR CS-4C	
	ROLLING	45	589'	360'				4' @ 4:1		
	MOUNTAINOUS	40	446'	305'					CS-3/ CS-3B	
		35	316'	250'						
	MOUNTAINOUS	30	215'	200'						
		30	215'	200'						
CURRENT ADT UNDER 400	LEVEL	45	589'	360'	10'	8'	2'	6' @ 4:1	CS-1	
		40	446'	305'						
	ROLLING	35	316'	250'						
		30	215'	200'						
	MOUNTAINOUS	25	135'	155'						
		20	77'	125'						

Note: Table excerpted from Page A-14 of VDOT's Road Design Manual.

According to the table above, the design criteria for a Rural Collector, with volume/speed/terrain similar to Miller School Road, should maintain 11-foot lanes and minimum horizontal curve radii of 589 feet for a design speed of 45 mph and 316 feet for a design speed of 35 mph. Miller School Road generally maintains 10-foot lanes with shoulders ranging from 0 to 1 foot in width. Using aerial imagery, it was determined that four (4) of the eight (8) curves, with posted speeds ranging from 35-45 mph, maintain radii that do not meet the current VDOT standard. **Figures 4 and 5** provide the radius measurements for the eight (8) curves along Miller School Road.

Additionally, due to the angle of the northern approach to the unsignalized intersection of Miller School Road & Plank Road, turning paths for Single Unit Trucks (30-foot wheelbase), WB-40 Trucks and WB-50 Trucks were overlaid upon aerial imagery to evaluate the right-turn movement from westbound Plank Road onto northbound Miller School Road. Accordingly, **Figure 6** illustrates that each of these truck types encroach upon the southbound and/or westbound opposing lanes when turning right onto Miller School Road.



Figure 4: Curve Measurements along Miller School Road (Curve 1 of 8)



Figure 5: Curve Measurements along Miller School Road (Curves 2 through 8)



Figure 6: Turning Paths for Single Unit Trucks (30-foot wheelbase), WB-40 Trucks and WB-50 Trucks

ALTERNATE ROUTES

It is assumed that trucks currently use Miller School Road, via Plank Road, to travel between US 29 and I-64. This route is 11.3 miles in length with a total travel time for trucks of 19.8 minutes based upon trip data extrapolated from Google Maps. The proposed alternate route described below, and provided on **Figure 7**, would mitigate the impacts to trucks should they be restricted from using Miller School Road. Detailed methodology for calculating *Total Travel Time* and *Average Truck Speed* are provided in the **Appendix** section of this report.

- Current Route: *US 29 ↔ Miller School Road ↔ US 250 ↔ I-64*
 - Length: 11.3 Miles
 - Average Truck Speed: 34.2 mph
 - Total Travel Time: 19.8 minutes

- Alternate Truck Route: *US 29 ↔ I-64*
 - Length: 19.5 Miles
 - Average Truck Speed: 60.2 mph
 - Total Travel Time: 19.4 minutes (Δ - 0.4 minutes)

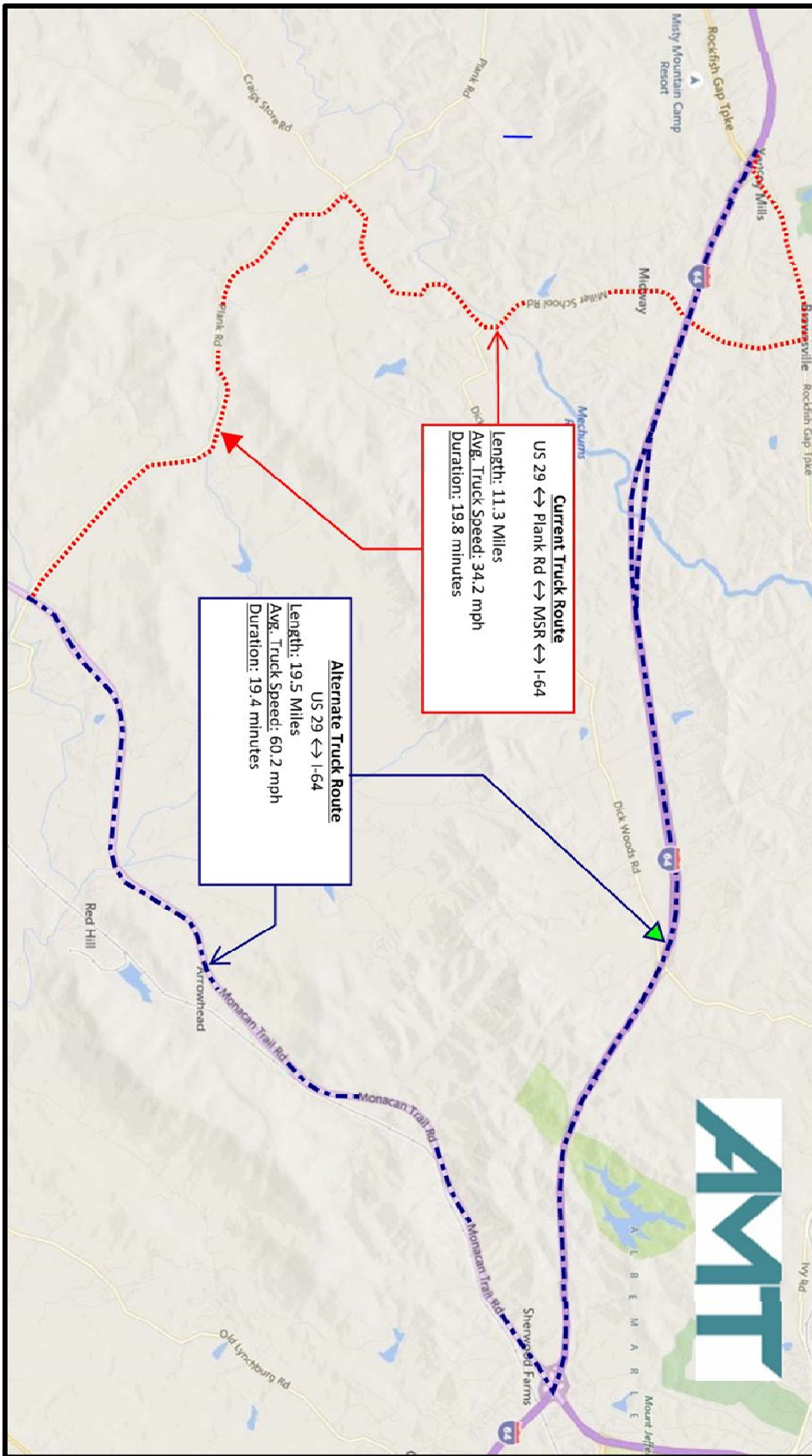



Figure 7: Alternative Truck Routes

CONCLUSION

The purpose of this Study was to determine if truck traffic may be restricted along Miller School Road based upon Virginia Commonwealth Transportation Board (CTB) Criteria. According to the CTB's "Guidelines for Considering Requests to Restrict Through Trucks on Primary and Secondary Highways", it has been concluded based upon the documentation included in this Study, that Miller School Road would meet the established criteria to implement the restriction. The following summarizes the results of the Study with respect to the guidelines set forth by the CTB:


-  **Criteria #1:** *Reasonable alternate routing is provided. The alternate route will be evaluated for traffic and safety related impacts. To be considered "reasonable", the alternate route(s) must be engineered to a standard sufficient for truck travel, and must be judged at least as appropriate for truck traffic as the requested truck restriction route. If an alternate route must be upgraded, the improvement shall be completed before the truck restriction can be implemented. The termini of the proposed restriction must be identical to the alternate routing to allow a time and distance comparison to be conducted between the two routings. Also, the alternate routing must not create an undue hardship for trucks in reaching their destination.*

Conclusion:

An alternative route has been provided that meet the geometric standards necessary to accommodate truck traffic and improve safety for road users in the area. The following table provides a comparison between the current route and the alternative route as depicted on **Figure 7**:

Current Route	Alternative Route
11.3 miles	19.5 miles
34.2 mph	60.2 mph
19.8 min	19.4 min
Differential	-Δ + 0.4 min

- *Based upon the table above, the Alternative Route would provide a "reasonable" option for vehicles traveling between US 29 and I-64. The distance for trucks would increase by 8.2 miles, however, the overall duration would be slightly reduced from the Current Route.*

-  **Criteria #2:** *The character and/or frequency of the truck traffic on the route proposed for restriction is not compatible with the affected area. Evaluation will include safety issues, accident history, engineering of the roadway, vehicle composition, and other traffic engineering related issues.*

Conclusion:

This Study included an evaluation of the five-year crash history, horizontal roadway radii, vehicle volumes/composition and turning paths for trucks. The following summarized the results of this evaluation:

Five-Year Crash History

Miller School Road, maintains a crash rate of 164.62 crashes per 100 million vehicle-miles of travel north of Dick Woods Road and 324.08 million vehicle-miles of travel south of Dick Woods Road.

- *These rates exceed the District average of 147.08 crashes per 100 million vehicle miles. Restricting truck use may reduce the crash rate along Miller School Road.*

Horizontal Roadway Radii

Eight (8) horizontal curves along Miller School Road were compared to the VDOT "Geometric Design Standards for Rural Collector Road System (GS-3)"


- *Four (4) of the eight (8) horizontal curves have radii less than the VDOT Standard. Trucks must encroach upon the opposing lane to maneuver through these curves.*

Turning Paths for Trucks

Turning paths for Single Unit Trucks (30-foot wheelbase), WB-40 Trucks and WB-50 Trucks were overlaid upon aerial imagery to evaluate the right-turn movement from westbound Plank Road onto northbound Miller School Road.

- *Each of these truck types encroach upon the southbound and/or westbound opposing lanes when turning right onto Miller School Road. Restricting truck traffic would remove this existing conflict from the intersection.*

In addition to meeting the first two criteria, the proposed restriction must meet either the third or the fourth criteria in order to be approved.

-  Criteria #3: *The roadway is residential in nature. Typically, the roadway will be judged to be residential if there are at least 12 dwellings combined on both sides within 150' of the existing or proposed roadway center line per 1,000 feet of roadway.*

Conclusion:

Miller School Road provides direct access to sixty-five (65) single-family detached residential units. The roadway cannot be judged as "residential" since there are not at least 12 dwelling units combined on both sides within 150' of the centerline per 1000' of roadway.

-  Criteria #4: *The roadway must be functionally classified as either a local or collector.*

Conclusion:

Miller School Road is classified as a Major Collector.

APPENDIX

Traffic Counts

A. Morton Thomas & Associates, Inc.
Turning Movement Counts - Field Sheet (All Vehicles except Box Trucks and Tractor Trailers)

Job No.: 17-0013.003
 Location: Rockfish Gap Turnpike (Rte 250) at Miller School Rd
 Date: 3/14/2018 & 3/15/2018
 Recorder: AMT
 Interval (dd): 15 (In Minutes)
 State: Virginia
 Town: Charlottesville
 Weather:

PEAK HOURS	AM PERIOD				Volume	1401	PM PERIOD				Volume	1735
	12:00AM-12:00PM	Start 07:45	End 08:45	12:00PM-12:00AM			Start 17:15	End 18:15				

Street Name-->	Crozet Ave					Miller School Rd					Rockfish Gap Turnpike (Rte 250)					Rockfish Gap Turnpike (Rte 250)					GRAND TOTAL	
	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total		
DAY 1: 3/14/18	00:15	0	1	0	0	1	0	0	0	0	0	0	0	4	0	4	0	3	2	0	5	10
00:30	0	0	0	1	1	0	0	0	0	0	0	0	1	2	3	0	1	5	1	7	11	
00:45	0	1	1	0	2	0	0	0	0	0	0	0	0	6	6	0	4	0	0	10	21	
01:00	0	0	2	0	2	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	4	8
01:15	0	0	1	1	2	0	0	0	0	0	0	0	1	0	1	0	2	2	1	5	13	
01:30	0	1	0	0	1	0	0	0	1	1	0	0	0	0	0	0	1	0	0	1	3	
01:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
02:00	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	1	0	0	2	
02:15	0	0	0	1	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2	
02:30	0	1	0	0	1	0	0	0	0	0	0	1	0	1	0	0	2	0	2	0	4	
02:45	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	3	1	0	4	6	
03:00	0	0	1	1	2	0	0	0	1	1	0	0	1	1	0	1	0	1	0	0	1	
03:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:30	0	0	0	1	1	0	0	0	0	0	0	1	1	2	0	0	0	1	0	1	4	
03:45	0	0	0	2	2	0	0	1	0	1	0	0	0	0	0	0	0	1	1	2	5	
04:00	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3	4	
04:15	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	4	0	5	6		
04:30	0	1	0	2	3	0	0	2	0	2	0	1	2	0	1	2	0	0	1	7		
04:45	0	0	0	2	2	0	1	0	0	1	0	0	3	0	3	0	2	2	0	4		
05:00	0	0	0	4	4	0	2	1	0	3	0	0	0	0	0	2	4	0	6	13		
05:15	0	1	1	4	6	0	1	1	0	2	0	1	1	0	2	0	3	1	5	13		
05:30	0	1	0	7	8	0	1	1	1	3	0	5	0	5	0	3	6	1	10	26		
05:45	0	0	1	6	7	0	2	1	0	3	0	3	0	3	0	1	4	0	5	18		
06:00	0	2	3	8	13	0	0	1	1	2	0	5	1	7	0	4	8	0	12	34		
06:15	0	4	1	16	21	0	3	1	3	7	0	3	1	4	0	6	15	1	22	54		
06:30	0	6	1	18	25	0	8	0	4	12	0	20	1	21	0	11	17	1	29	87		
06:45	0	6	2	21	29	0	7	0	5	12	0	16	2	18	0	14	21	5	46	108		
07:00	0	14	4	21	39	0	8	6	2	16	0	1	30	4	35	0	21	22	3	46		
07:15	0	12	5	45	62	0	6	4	5	15	0	1	34	5	40	0	25	39	1	65		
07:30	0	11	5	56	72	0	11	5	4	20	0	4	42	5	46	0	26	26	2	62		
07:45	0	26	4	89	119	0	12	7	9	28	0	4	85	5	90	0	33	47	5	85		
08:00	0	12	6	92	125	0	20	9	15	44	0	4	72	13	89	0	59	99	9	167		
08:15	0	12	6	92	125	0	7	2	8	17	0	6	50	11	57	0	46	77	4	133		
08:30	0	14	3	64	81	0	9	11	8	28	0	3	85	9	97	0	42	81	5	128		
08:45	0	9	4	54	67	0	8	4	4	10	0	1	119	9	129	0	34	70	4	108		
09:00	0	26	7	72	105	0	12	16	8	36	0	6	93	11	110	0	46	74	5	125		
09:15	0	18	6	41	65	0	7	5	18	17	0	6	50	11	67	0	62	117	9	183		
09:30	0	9	0	24	33	0	5	8	6	19	0	5	37	12	54	0	35	60	3	98		
09:45	0	10	5	32	47	0	5	4	6	15	0	5	40	10	55	0	38	56	2	96		
10:00	0	19	2	36	57	0	10	2	10	23	0	2	38	10	50	0	40	35	3	99		
10:15	0	26	4	28	58	0	5	9	5	19	0	6	47	16	69	0	32	53	5	90		
10:30	0	21	4	36	61	0	6	6	7	19	0	1	42	12	55	0	36	69	3	108		
10:45	0	24	8	25	57	0	4	5	7	16	0	4	45	13	62	0	38	63	1	102		
11:00	0	31	5	21	57	0	7	6	12	25	0	2	55	13	71	0	26	45	6	77		
11:15	0	29	6	41	76	0	4	5	7	16	0	7	49	26	82	0	27	59	6	92		
11:30	0	30	6	28	64	0	4	5	7	17	0	4	46	21	71	0	22	44	4	60		
11:45	0	25	1	32	58	0	2	5	4	11	0	5	39	21	65	0	23	51	5	79		
12:00	0	21	5	30	56	0	6	11	11	28	0	9	49	26	84	0	30	44	5	79		
12:15	0	26	4	36	66	0	3	8	10	21	0	8	58	28	94	0	32	63	6	101		
12:30	0	24	8	42	74	0	4	1	8	13	0	14	66	22	102	0	31	67	14	112		
12:45	0	24	5	39	68	0	9	4	5	18	0	7	60	28	95	0	45	68	5	118		
13:00	0	31	7	28	66	0	7	6	8	19	0	8	70	39	85	0	32	60	4	101		
13:15	0	22	8	26	56	0	8	7	5	20	0	7	58	26	91	0	28	58	3	89		
13:30	0	27	9	34	70	0	5	3	6	14	0	1	54	27	82	0	35	40	2	77		
13:45	0	20	4	46	70	0	3	6	10	19	0	11	84	27	122	0	36	43	5	87		
14:00	0	28	10	53	91	0	5	6	8	19	0	6	42	21	69	0	44	50	3	97		
14:15	0	15	7	54	76	0	5	8	4	17	0	7	66	23	96	0	39	43	9	91		
14:30	0	16	3	51	72	0	3	1	4	10	0	10	62	22	94	0	46	54	7	107		
14:45	0	21	6	39	66	0	4	9	3	17	0	5	56	21	82	0	63	78	6	147		
15:00	0	20	5	36	61	0	2	7	5	14	0	4	50	21	75	0	29	61	13	103		
15:15	0	22	3	34	59	0	4	11	22	29	0	9	56	19	86	0	35	55	2	92		
15:30	0	25	7	42	72	0	3	5	6	14	0	9	84	28	121	0	31	57	3	97		
15:45	0	13	7	61	81	0	10	4	8	22	0	7	84	28	119	0	45	58	4	101		
16:00	0	17	4	50	71	0	2	5	6	13	0	14	104	31	149	0	66	77	10	153		
16:15	0	23	11	50	84	0	3	6	10	19	0	11	84	27	122	0	73	139	9	162		
16:30	0	20	13	43	76	0	6	3	5	14	0	12	78	31	121	0	61	91	21	173		
16:45	0	27	11	38	76	0	6	5	7	18	0	7	63	34	124	0	40	58	9	107		
17:00	0	18	14	52	84	0	6	13	5	24	0	11	101	30	142	0	59	97	11	121		
17:15	0	23	12	63	98	0	3	3	5	11	0	4	106	32	142	0	60	66	12	138		
17:30	0	23	7	53	83	0																

Turning Movement Counts - Field Sheet (All Vehicles except Box Trucks and Tractor Trailors)

Job No.: 17-0013.003

Location: Rockfish Gap Turnpike (Rte 250) at Miller School Rd
 Date: 3/14/2018 & 3/15/2018

State: Virginia
 Town: Charlottesville
 Weather:

Recorder:
 Interval (dd):
 (In Minutes)

PEAK HOURS	AM PERIOD			Volume		PM PERIOD	Start	End	Volume	
	12:00AM-12:00PM	Start	End							
		07:45	08:45	1401						

PEAK HOURS	AM PERIOD			Volume		PM PERIOD	Start	End	Volume	
	12:00AM-12:00AM	Start	End							
		07:45	08:45	1398						

Street Name->	Crocket Ave												Miller School Rd												Rockfish Gap Turnpike (Rte 250)												Rockfish Gap Turnpike (Rte 250)												GRAND TOTAL
	From North				From South				From East				From West				From North				From South				From East				From West																				
	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total																			
DAY 2: 3/15/18																																																	
00:15																																																	
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00:00																																																	
TOTAL	0	1173	396	2517	4086	0	395	415	346	1156	0	389	3852	1205	5446	0	2475	3739	389	6603	17291																												
AM Peak Vol	0	57	19	295	371	0	68	31	33	132	0	9	348	31	388	0	203	281	23	507	1398																												
PM Peak Vol	0	94	48	281	423	0	51	48	29	128	0	40	532	158	730	0	253	279	44	576	1857																												

A. Morton Thomas & Associates, Inc.
Turning Movement Counts - Field Sheet (Tractor Trailors)

Job No.: 17-0013.003

Location: Rockfish Gap Turnpike (Rte 250) at Miller School Rd
 Date: 3/14/2018 & 3/15/2018
 Recorder: AMT
 Interval (dd): 15
 (in Minutes)

State: Virginia
 Town: Charlottesville
 Weather:

PEAK HOURS	AM PERIOD				Start	End	Volume	PM PERIOD				Start	End	Volume
	12:00AM-12:00PM							12:00PM-12:00AM						
					07:00	08:00	18					14:15	15:15	8

Street Name->	Crozet Ave					Miller School Rd					Rockfish Gap Turnpike (Rte 250)					Rockfish Gap Turnpike (Rte 250)					GRAND TOTAL
	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	
DAY 1: 3/14/18																					
00:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0</		

A. Morton Thomas & Associates, Inc.
Turning Movement Counts - Field Sheet (All Vehicles except Box Trucks and Tractor Trailers)

Job No.: 17-0013.003

Location: Miller School Rd at Plank Rd
 Date: 3/14/2018 & 3/15/2018
 Recorder: AMT
 Interval (dd): 15
 (in Minutes)

State: Virginia
 Town: Batesville
 Weather:

PEAK HOURS	AM PERIOD					PM PERIOD				
	Start	End	Volume	Start	End	Volume				
	07:30	08:30	209	17:00	18:00	223				

Street Name->	Miller School Rd					Plank Rd					Plank Rd					GRAND TOTAL					
	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total						
DAY 1: 3/14/18																					
00:15	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	2
00:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15	0	1	0	1	2	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	4
01:30	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
01:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	3	3
02:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
03:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	1	1
04:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
05:00	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	4	0	4	5
05:15	0	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	4
05:30	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	2
05:45	0	2	0	0	2	0	0	0	0	0	0	0	1	1	2	0	1	2	0	3	6
06:00	0	2	0	0	2	0	0	0	0	0	0	0	1	0	1	0	2	4	0	6	9
06:15	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	12
06:30	0	0	0	0	0	0	0	0	0	0	0	0	3	5	8	0	4	11	0	15	23
06:45	0	2	0	0	2	0	0	0	0	0	0	0	6	6	12	0	6	18	0	24	36
07:00	0	4	0	0	4	0	0	0	0	0	0	0	6	6	12	0	2	10	0	12	28
07:15	0	7	0	3	10	0	0	0	0	0	0	0	6	6	12	0	2	9	0	11	33
07:30	0	5	0	1	6	0	0	0	0	0	0	0	12	7	19	0	0	6	0	27	48
07:45	0	5	0	4	9	0	0	0	0	0	0	0	12	7	19	0	13	28	0	39	67
08:00	0	3	0	3	6	0	0	0	0	0	0	0	12	8	20	0	4	20	0	24	50
08:15	0	11	0	4	15	0	0	0	0	0	0	0	13	6	19	0	4	15	0	17	51
08:30	0	3	0	7	10	0	0	0	0	0	0	0	9	9	18	0	2	21	0	23	51
08:45	0	4	0	4	8	0	0	0	0	0	0	0	9	4	13	0	5	13	0	18	39
09:00	0	5	0	4	9	0	0	0	0	0	0	0	7	14	21	0	4	18	0	22	44
09:15	0	6	0	4	10	0	0	0	0	0	0	0	6	5	11	0	4	14	0	18	41
09:30	0	4	0	5	9	0	0	0	0	0	0	0	8	6	14	0	3	13	0	16	39
09:45	0	5	0	1	6	0	0	0	0	0	0	0	10	9	19	0	2	11	0	13	38
10:00	0	7	0	2	9	0	0	0	0	0	0	0	4	1	5	0	2	5	0	7	25
10:15	0	2	0	0	2	0	0	0	0	0	0	0	5	7	12	0	4	10	0	14	28
10:30	0	3	0	1	4	0	0	0	0	0	0	0	7	4	11	0	1	7	0	8	23
10:45	0	1	0	4	5	0	0	0	0	0	0	0	5	8	13	0	5	7	0	12	25
11:00	0	2	0	4	6	0	0	0	0	0	0	0	8	5	13	0	9	7	0	16	35
11:15	0	1	0	3	4	0	0	0	0	0	0	0	7	3	10	0	6	10	0	16	30
11:30	0	2	0	5	7	0	0	0	0	0	0	0	5	8	13	0	3	7	0	10	20
11:45	0	4	0	7	11	0	0	0	0	0	0	0	5	5	10	0	4	5	0	9	30
12:00	0	4	0	2	6	0	0	0	0	0	0	0	9	5	14	0	5	15	0	20	40
12:15	0	1	0	2	3	0	0	0	0	0	0	0	11	0	11	0	4	9	0	13	24
12:30	0	6	0	3	9	0	0	0	0	0	0	0	9	3	12	0	2	12	0	14	35
12:45	0	4	0	4	8	0	0	0	0	0	0	0	4	6	10	0	7	8	0	15	33
13:00	0	6	0	4	10	0	0	0	0	0	0	0	4	3	7	0	4	8	0	12	30
13:15	0	3	0	5	8	0	0	0	0	0	0	0	4	4	8	0	4	4	0	8	24
13:30	0	2	0	2	4	0	0	0	0	0	0	0	4	3	7	0	4	7	0	11	23
13:45	0	2	0	5	7	0	0	0	0	0	0	0	4	3	7	0	11	5	0	16	28
14:00	0	6	0	5	11	0	0	0	0	0	0	0	7	17	24	0	7	7	0	14	42
14:15	0	3	0	4	7	0	0	0	0	0	0	0	8	3	11	0	3	6	0	9	27
14:30	0	6	0	2	8	0	0	0	0	0	0	0	2	2	4	0	0	8	0	8	28
14:45	0	1	0	4	5	0	0	0	0	0	0	0	2	5	7	0	3	10	0	13	23
15:00	0	7	0	7	14	0	0	0	0	0	0	0	12	5	17	0	7	12	0	19	50
15:15	0	12	0	5	17	0	0	0	0	0	0	0	12	9	21	0	4	5	0	19	43
15:30	0	2	0	4	6	0	0	0	0	0	0	0	4	8	12	0	5	17	0	22	40
15:45	0	9	0	5	14	0	0	0	0	0	0	0	15	4	19	0	5	8	0	13	46
16:00	0	3	0	2	5	0	0	0	0	0	0	0	5	5	10	0	5	7	0	12	27
16:15	0	6	0	5	11	0	0	0	0	0	0	0	17	10	27	0	1	8	0	7	45
16:30	0	12	0	9	21	0	0	0	0	0	0	0	16	2	18	0	4	11	0	15	54
16:45	0	9	0	7	16	0	0	0	0	0	0	0	21	3	24	0	4	10	0	14	54
17:00	0	8	0	6	14	0	0	0	0	0	0	0	15	4	19	0	3	9	0	12	45
17:15	0	15	0	7	22	0	0	0	0	0	0	0	19	4	23	0	8	10	0	18	63
17:30	0	7	0	7	14	0	0	0	0	0	0	0	24	6	30	0	0	15	0	15	59
17:45	0	9	0	7	16	0	0	0	0	0	0	0	12	13	25	0	4	9	0	13	47
18:00	0	8	0	1	9	0	0	0	0	0	0	0	22	2	24	0	7	7	0	14	47
18:15	0	6	0	7	13	0	0	0	0	0	0	0	17	6	23	0	2	9	0	11	47
18:30	0	4	0	5	9	0	0	0	0	0	0	0	21	6	27	0	3	14	0	17	53
18:45	0	4	0	2	6	0	0	0	0	0	0	0	14	4	18	0	0	9	0	9	33
19:00	0	5	0	6	11	0	0	0	0	0	0	0	9	6	15	0	2	6	0	8	34
19:15	0	4	0	6	10	0	0	0	0	0	0										

Turning Movement Counts - Field Sheet (All Vehicles except Box Trucks and Tractor Trailors)

Job No.: 17-0013.003

Location: Miller School Rd at Plank Rd
 Date: 3/14/2018 & 3/15/2018
 Recorder: AMT
 Interval (dd): 15
 (in Minutes)

State: Virginia
 Town: Batesville
 Weather:

PEAK HOURS	AM PERIOD 12:00AM-12:00PM	Start 07:30	End 08:30	Volume 209	PM PERIOD 12:00PM-12:00AM	Start 17:00	End 18:00	Volume 223
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PEAK HOURS	AM PERIOD 12:00AM-12:00PM	Start 07:30	End 08:30	Volume 195	PM PERIOD 12:00PM-12:00AM	Start 17:00	End 18:00	Volume 244
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Street Name->	Miller School Rd					Plank Rd					Plank Rd					GRAND TOTAL						
	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total							
DAY 2: 3/15/18																						
00:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3	3
00:30	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1
00:45	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	1	2
01:00	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	1	2
01:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30	0	1	0	1	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	3
01:45	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
02:00	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
02:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	2
03:30	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
03:45	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	4
04:30	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	2	3
04:45	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
05:15	0	1	0	0	1	0	0	0	0	0	0	0	1	1	2	0	0	1	0	0	1	4
05:30	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	2	0	0	2	4
05:45	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	3	0	0	3	5
06:00	0	2	0	0	2	0	0	0	0	0	0	0	1	0	1	0	0	6	0	0	6	9
06:15	0	2	0	1	3	0	0	0	0	0	0	0	1	2	3	0	0	12	0	0	12	18
06:30	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	0	0	3	12	0	15	20
06:45	0	3	0	0	3	0	0	0	0	0	0	0	1	3	4	0	0	1	20	0	21	28
07:00	0	5	0	1	6	0	0	0	0	0	0	0	5	12	0	0	4	12	0	16	34	
07:15	0	5	0	2	7	0	0	0	0	0	0	0	5	11	6	0	2	8	0	10	23	
07:30	0	8	0	0	8	0	0	0	0	0	0	0	7	9	16	0	4	19	0	23	47	
07:45	0	7	0	2	9	0	0	0	0	0	0	0	8	4	12	0	10	25	0	35	56	
08:00	0	2	0	3	5	0	0	0	0	0	0	0	12	6	18	0	6	14	0	20	43	
08:15	0	5	0	4	9	0	0	0	0	0	0	0	6	11	17	0	3	18	0	21	47	
08:30	0	3	0	5	8	0	0	0	0	0	0	0	10	8	18	0	7	15	0	22	49	
08:45	0	1	0	4	5	0	0	0	0	0	0	0	9	2	11	0	5	21	0	26	42	
09:00	0	4	0	1	5	0	0	0	0	0	0	0	10	7	17	0	10	10	0	20	42	
09:15	0	3	0	1	4	0	0	0	0	0	0	0	7	9	16	0	4	13	0	17	37	
09:30	0	6	0	2	8	0	0	0	0	0	0	0	8	5	13	0	4	10	0	14	35	
09:45	0	7	0	2	9	0	0	0	0	0	0	0	3	3	6	0	1	5	0	6	21	
10:00	0	7	0	5	12	0	0	0	0	0	0	0	0	0	0	0	2	4	0	6	26	
10:15	0	4	0	1	5	0	0	0	0	0	0	0	6	2	8	0	2	6	0	8	21	
10:30	0	2	0	3	5	0	0	0	0	0	0	0	9	4	13	0	1	16	0	17	35	
10:45	0	3	0	5	8	0	0	0	0	0	0	0	4	2	6	0	3	7	0	10	24	
11:00	0	4	0	0	4	0	0	0	0	0	0	0	1	2	3	0	5	6	0	11	19	
11:15	0	3	0	2	5	0	0	0	0	0	0	0	5	6	11	0	1	3	0	4	14	
11:30	0	2	0	4	6	0	0	0	0	0	0	0	4	3	7	0	1	8	0	9	25	
11:45	0	4	0	5	9	0	0	0	0	0	0	0	5	6	11	0	1	6	0	7	27	
12:00	0	5	0	2	7	0	0	0	0	0	0	0	7	2	9	0	3	6	0	9	25	
12:15	0	2	0	1	3	0	0	0	0	0	0	0	3	4	7	0	3	5	0	8	18	
12:30	0	4	0	2	6	0	0	0	0	0	0	0	10	3	13	0	4	2	0	6	25	
12:45	0	6	0	1	7	0	0	0	0	0	0	0	7	6	13	0	2	7	0	9	29	
13:00	0	3	0	1	4	0	0	0	0	0	0	0	14	2	16	0	1	2	0	3	23	
13:15	0	1	0	3	4	0	0	0	0	0	0	0	10	4	14	0	4	8	0	12	30	
13:30	0	4	0	3	7	0	0	0	0	0	0	0	9	0	9	0	5	9	0	14	30	
13:45	0	2	0	2	4	0	0	0	0	0	0	0	4	2	6	0	5	6	0	11	21	
14:00	0	4	0	5	9	0	0	0	0	0	0	0	19	5	24	0	7	8	0	15	54	
14:15	0	2	0	2	4	0	0	0	0	0	0	0	11	2	13	0	3	11	0	14	31	
14:30	0	7	0	7	14	0	0	0	0	0	0	0	7	3	10	0	2	10	0	12	36	
14:45	0	3	0	8	11	0	0	0	0	0	0	0	11	2	13	0	5	11	0	16	40	
15:00	0	5	0	8	13	0	0	0	0	0	0	0	8	8	16	0	4	6	0	10	39	
15:15	0	4	0	5	9	0	0	0	0	0	0	0	11	6	17	0	2	6	0	8	34	
15:30	0	6	0	3	9	0	0	0	0	0	0	0	5	5	10	0	8	6	0	14	35	
15:45	0	2	0	3	5	0	0	0	0	0	0	0	10	4	14	0	4	8	0	12	31	
16:00	0	9	0	6	15	0	0	0	0	0	0	0	10	5	15	0	5	13	0	18	48	
16:15	0	9	0	6	15	0	0	0	0	0	0	0	13	9	22	0	1	10	0	11	48	
16:30	0	10	0	8	18	0	0	0	0	0	0	0	22	9	31	0	1	14	0	15	64	
16:45	0	9	0	8	17	0	0	0	0	0	0	0	19	5	24	0	7	8	0	15	54	
17:00	0	3	0	4	7	0	0	0	0	0	0	0	14	11	25	0	4	7	0	11	43	
17:15	0	13	0	5	18	0	0	0	0	0	0	0	24	10	34	0	6	6	0	12	64	
17:30	0	9	0	6	15	0	0	0	0	0	0	0	26	10	36	0	7	10	0	17	68	
17:45	0	8	0	13	21	0	0	0	0	0	0	0	14	6	20	0	5	8	0	13	54	
18:00	0	11	0	9	20	0	0	0	0	0	0	0	20	9	29	0	2	7	0	9	58	
18:15	0	5	0	4	9	0	0	0	0	0	0	0	21	7	28	0	0	16	0	16	55	
18:30	0	6	0	7	13	0	0	0	0	0	0	0	9	3	12	0	4	5	0	9	34	
18:45	0	5	0	5	10	0	0															

Turning Movement Counts - Field Sheet (Box Trucks)

Job No.: 17-0013.003

Location: Miller School Rd at Plank Rd
 Date: 3/14/2018 & 3/15/2018
 Recorder: AMT
 Interval (dd): 15
 (in Minutes)

State: Virginia
 Town: Batesville
 Weather:

PEAK HOURS	AM PERIOD	Start	End	Volume	PM PERIOD	Start	End	Volume
	12:00AM-12:00PM	09:00	10:00	10	12:00PM-12:00AM	13:00	14:00	8

PEAK HOURS	AM PERIOD	Start	End	Volume	PM PERIOD	Start	End	Volume
	12:00AM-12:00PM	09:15	10:15	11	12:00PM-12:00AM	14:30	15:30	11

Street Name ->	Miller School Rd					Plank Rd					Plank Rd					GRAND TOTAL					
HOURLY ENDING	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total						
DAY 2: 3/15/18																					
00:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:45	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	2
07:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	0	0	0	0	0	1
08:30	0	0	0	0	0	0	0	0	0	0	0	1	1	2	4	0	0	0	1	1	3
08:45	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
09:00	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2
09:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
09:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
09:45	0	1	0	0	1	0	0	0	0	0	0	2	3	5	0	0	0	0	0	6	
10:00	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	2	0	2	3
10:15	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
10:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	1
11:00	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	0	0	0	0	0	1
11:15	0	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	1	0	1	2
12:15	0	1	0	0	1	0	0	0	0	0	0	3	1	4	4	0	0	0	0	0	5
12:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45	0	1	0	1	2	0	0	0	0	0	0	1	1	2	2	0	0	0	0	0	2
13:00	0	1	0	0	1	0	0	0	0	0	0	1	0	1	2	0	0	0	0	0	1
13:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
13:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
14:00	0	1	0	1	2	0	0	0	0	0	0	1	0	1	2	0	0	0	0	0	2
14:15	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	0	0	1	0	1	2
14:30	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2
14:45	0	0	0	0	0	0	0	0	0	0	0	2	1	3	3	0	0	1	0	1	4
15:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
15:15	0	0	0	1	1	0	0	0	0	0	0	1	0	1	2	0	1	0	0	1	3
15:30	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2	0	0	1	0	1	3
15:45	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	0	0	0	0	0	1
16:00	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:30	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	0	0	4	0	4	5
16:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19:00	0	0	0	0	0	0	0	0	0	0	0										

A. Morton Thomas & Associates, Inc.
Turning Movement Counts - Field Sheet (Tractor Trailers)

Job No.: 17-0013.003

Location: Miller School Rd at Plank Rd
 Date: 3/14/2018 & 3/15/2018
 Recorder: AMT
 Interval (dd): 15
 (in Minutes)

State: Virginia
 Town: Batesville
 Weather:

PEAK HOURS	AM PERIOD			Start	End	Volume	PM PERIOD			Start	End	Volume
	12:00AM-12:00PM	09:30	10:30				12:00PM-12:00AM	18:45	19:45			
						1						

Street Name->	Miller School Rd					Plank Rd					Plank Rd					GRAND TOTAL
	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	
DAY 1: 3/14/18																
00:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
00:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
00:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
06:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
06:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
06:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
00:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	0	2	0	0	2	0	0	0	0	0	0	6	2	8	13	
AM Peak Vol	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
PM Peak Vol	0	0	0	0	0	0	0	0	0	0	0	2	1	3	3	

Turning Movement Counts - Field Sheet (Tractor Trailors)

Job No.: 17-0013.003

Location: Miller School Rd at Plank Rd

State: Virginia

Date: 3/14/2018 & 3/15/2018

Town: Batesville

Recorder: AMT

Weather:

Interval (dd): 15
(in Minutes)

PEAK HOURS	AM PERIOD 12:00AM-12:00PM	Start			End			Volume		PM PERIOD 12:00PM-12:00AM	Start			End			Volume	
		09:30	10:30		10:30	11:30					18:45	19:45		12:00	13:00			
								1									3	

PEAK HOURS	AM PERIOD 12:00AM-12:00PM	Start			End			Volume		PM PERIOD 12:00PM-12:00AM	Start			End			Volume	
		10:15	11:15		11:15	12:15					12:00	13:00						
								1									3	

Street Name-->	Miller School Rd					Plank Rd					Plank Rd					GRAND TOTAL						
	HOURLY ENDING	From North				Total	From South				Total	From East					Total	From West				Total
		U turn	Left	Through	Right		U turn	Left	Through	Right		U turn	Left	Through	Right			U turn	Left	Through	Right	
DAY 2: 3/15/18	00:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	00:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	00:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	01:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	01:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	01:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	02:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	02:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	02:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	03:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	03:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	03:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	04:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	04:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	04:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	05:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	05:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	05:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	06:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	06:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	06:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	07:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	07:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	07:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	07:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	08:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	08:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	08:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	08:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	09:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	09:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	09:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	09:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10:30	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	
	10:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15:15	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	15:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15:45	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	16:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17:45	0	0	0	0	0																

A. Morton Thomas & Associates, Inc.
Turning Movement Counts - Field Sheet (All Vehicles except Box Trucks and Tractor Trailers)

Job No.: 17-0013.003

Location: Plank Rd at Monacan Trail Rd (Rte 29)
Date: 3/14/2018 & 3/15/2018
Recorder: AMT
Interval (dd) (in Minutes): 15

State: Virginia
Town: North Garden
Weather:

PEAK HOURS	AM PERIOD			PM PERIOD			Start	End	Volume	Start	End	Volume
	12:00AM-12:00PM	07:15	08:15	1173	12:00PM-12:00AM	16:15						

Street Name ->	Monacan Trail Rd (Rte 29)					Monacan Trail Rd (Rte 29)					Plank Rd					GRAND TOTAL				
	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total					
DAY 1: 3/14/18																				
00:15	0	0	16	1	17	0	0	4	0	4	0	0	0	1	1	0	0	0	0	22
00:30	0	0	14	0	14	0	0	2	0	2	0	1	0	0	1	0	0	0	0	17
00:45	0	1	6	0	7	0	0	6	0	6	0	0	0	0	0	0	0	0	0	13
01:00	0	2	5	0	7	0	0	7	0	7	0	0	0	1	1	0	0	0	0	15
01:15	0	0	5	1	6	0	0	4	0	4	0	0	0	0	0	0	0	0	0	7
01:30	0	0	3	0	3	0	0	4	0	4	0	0	0	1	1	0	0	0	1	9
01:45	0	0	4	0	4	0	0	7	0	7	0	0	0	0	0	0	0	0	0	11
02:00	0	0	2	0	2	0	1	1	0	1	0	0	0	0	0	0	0	0	0	3
02:15	0	0	4	0	4	0	0	3	0	3	0	0	0	0	0	0	0	0	1	8
02:30	0	0	4	1	5	0	0	2	0	2	0	0	0	0	0	0	0	0	0	7
02:45	0	0	2	0	2	0	0	6	0	6	0	0	0	0	0	0	0	0	0	8
03:00	0	0	6	0	6	0	0	2	0	2	0	0	0	0	0	0	0	0	0	8
03:15	0	1	5	0	6	0	0	4	1	5	0	0	0	2	1	1	0	1	0	13
03:30	0	1	4	0	5	0	0	5	0	5	0	0	0	0	0	1	0	0	0	6
03:45	0	0	5	0	5	0	0	4	0	4	0	0	1	0	1	0	0	0	1	11
04:00	0	0	2	0	2	0	1	13	0	14	0	0	0	0	0	0	0	0	0	16
04:15	0	0	5	0	5	0	1	12	0	13	0	0	0	0	0	0	0	0	0	18
04:30	0	1	1	0	2	0	1	11	0	11	0	0	0	0	0	1	0	0	1	13
04:45	0	1	3	0	4	0	1	14	0	15	0	0	0	0	0	1	0	0	1	20
05:00	0	0	4	0	4	0	0	20	1	21	0	2	0	0	2	0	1	0	0	28
05:15	0	6	6	0	12	0	0	27	1	28	0	0	1	1	2	1	2	0	3	33
05:30	0	0	7	0	7	0	1	16	0	17	0	0	3	1	4	2	0	0	6	33
05:45	0	0	6	0	6	0	0	38	1	39	0	0	0	3	3	0	2	0	0	50
06:00	0	13	0	15	28	0	0	40	3	43	0	0	0	0	0	3	0	4	0	64
06:15	0	0	13	1	14	0	1	75	5	81	0	1	0	5	6	5	4	2	11	112
06:30	0	4	15	1	20	0	2	92	6	100	0	1	2	6	9	0	7	5	5	177
06:45	0	4	30	2	36	0	2	111	6	119	0	2	5	19	24	0	10	2	0	177
07:00	0	8	28	3	39	0	4	106	5	115	0	0	3	9	12	0	12	2	0	187
07:15	0	5	33	1	39	0	4	135	6	145	0	1	4	5	10	0	9	3	3	209
07:30	0	4	41	4	49	0	3	167	11	182	0	0	8	14	26	0	15	2	0	278
07:45	0	10	43	4	57	0	6	185	14	205	0	1	14	14	29	0	25	6	4	326
08:00	0	5	55	4	64	0	4	181	12	197	0	4	9	8	21	0	23	3	0	308
08:15	0	5	64	8	77	0	0	142	9	154	0	1	5	9	15	0	15	2	0	267
08:30	0	9	43	13	65	0	0	144	13	162	0	3	2	5	13	0	25	5	1	311
08:45	0	8	38	18	64	0	6	140	10	156	0	1	5	10	18	0	18	2	4	248
09:00	0	8	45	10	63	0	4	109	6	119	0	3	3	8	14	0	14	6	5	221
09:15	0	14	42	16	72	0	5	117	12	134	0	0	4	13	24	0	16	5	4	252
09:30	0	7	52	11	70	0	5	121	10	136	0	7	4	9	20	0	15	3	0	244
09:45	0	8	47	6	61	0	2	95	5	102	0	4	6	5	15	0	9	6	2	177
10:00	0	9	43	3	55	0	1	89	10	100	0	1	8	11	5	15	3	1	0	174
10:15	1	6	48	8	63	0	4	99	6	109	0	6	3	10	19	0	3	5	4	201
10:30	0	4	43	3	50	0	2	82	8	92	0	4	2	6	12	0	4	3	1	162
10:45	0	5	52	8	63	0	3	94	7	104	0	0	4	4	13	0	5	3	1	185
11:00	1	4	68	6	79	0	2	71	7	80	0	3	1	10	14	0	8	3	3	147
11:15	0	11	56	5	72	0	1	66	7	74	0	2	5	7	14	0	11	1	1	173
11:30	0	6	52	5	61	0	0	56	4	60	0	4	1	4	11	0	5	4	2	111
11:45	1	12	58	8	79	0	4	82	6	92	0	1	5	10	18	0	5	3	4	199
12:00	1	10	70	6	87	0	1	68	6	74	0	3	8	10	21	0	6	6	0	194
12:15	1	9	54	8	71	0	1	75	5	83	0	0	5	8	16	0	9	2	4	188
12:30	1	18	67	9	91	0	2	73	9	84	0	4	5	8	15	0	6	0	2	207
12:45	0	5	77	8	90	0	4	77	6	87	0	2	7	8	17	0	11	5	2	187
13:00	2	12	48	3	63	0	0	58	7	64	0	0	8	9	14	0	8	2	0	178
13:15	0	7	68	5	80	0	2	64	8	74	0	4	5	4	13	0	10	4	2	163
13:30	0	7	70	8	85	0	2	64	3	72	0	7	1	7	15	0	5	4	2	183
13:45	0	7	80	7	94	0	3	77	2	82	0	7	1	11	19	0	6	3	0	193
14:00	0	16	78	10	102	0	6	76	6	88	0	5	3	5	13	0	5	9	1	218
14:15	0	12	81	7	100	0	1	87	4	92	0	4	4	6	14	0	8	2	4	220
14:30	0	7	98	6	111	0	2	77	5	82	0	3	4	3	10	0	3	3	1	194
14:45	0	8	109	9	126	0	2	80	4	86	0	3	4	3	14	0	7	3	0	240
15:00	0	13	96	8	117	0	5	70	7	83	0	3	4	6	13	0	6	2	5	226
15:15	0	9	101	8	116	0	1	84	8	93	0	8	2	7	14	0	13	5	4	222
15:30	0	8	103	9	120	0	4	80	6	70	0	8	2	4	12	0	12	3	0	220
15:45	0	17	122	14	153	0	1	66	6	73	0	3	4	7	14	0	14	6	1	261
16:00	0	12	120	13	146	0	4	70	8	82	0	4	4	6	14	0	7	4	5	256
16:15	0	13	145	11	169	0	4	83	7	74	0	9	3	11	23	0	6	1	4	277
16:30	0	16	175	17	208	0	2	74	5	81	0	7	6	9	21	0	8	9	5	332
16:45	0	20	171	17	208	0	7	57	4	88	0	8	9	7	24	0	10	5	8	323
17:00	0	22	182	17	221	0	1	75	7	83	0	6	8	4	18	0	8	7	6	343
17:15	1	10	160	12	183	0	5	72	5	82	0	13	7	5	25	0	13	10	11	324
17:30	0	23	132	16	171	0	4	75	7	86	0	5	6	5	14	0	17	8	6	302
17:45	1	10	135	15	161	0	2	74	2	76	0	1	10	10	21	0	13	14	4	311
18:00	3	25	124	18	170	0	3	51	2	56	0	4	9	5	18	0	4	1	6	111
18:15	1	10	132	23	166	0	5	53	8	66	0	12	6	2	20	0	6	8	4	187
18:30	2	23	202	14	241	0	2	74	4	80	0	7	4	4	16	0	7	2	5	350
18:45	1	18	92	13	122	0	3	60	6	69	0	6	0	0	13	0	7	5	3	219
19:00	0	18	83	11	112	0	2	44	5	51	0	9	6	5	20	0	5	4	3	192
19:15	1	4	91	5	101	0	1	48	6	55	0	2	3	3	8	0	2	4	3	125
19:30	0	5	73	5	83	0	1	37	3	41	0	7	7	6	20	0	2	1	2	149
19:45	0	11	73	8	92	0	2	33	5	40	0	5	2	1	8	0	2	0	1	143
20:00	1	10	62	10	83	0	0	28	2	30	0	6	3	2	11	0	3	1	0	128
20:15	0	8	65	3	71	0	1	26	2	32	0</									

Turning Movement Counts - Field Sheet (All Vehicles except Box Trucks and Tractor Trailers)

Job No.: 17-0013.003

Location: Plank Rd at Monacan Trail Rd (Rte 29)

Date: 3/14/2018 & 3/15/2018

Recorder: AMT

Interval (dd): 15 (in Minutes)

State: Virginia

Town: North Garden

Weather:

PEAK HOURS	AM PERIOD	Start	End	Volume	PM PERIOD	Start	End	Volume
	12:00AM-12:00PM	07:15	08:15	1173	12:00PM-12:00AM	16:15	17:15	1322

PEAK HOURS	AM PERIOD	Start	End	Volume	PM PERIOD	Start	End	Volume
	12:00AM-12:00PM	07:15	08:15		12:00PM-12:00AM	16:15	17:15	1428

Street Name →	Monacan Trail Rd (Rte 29)					Monacan Trail Rd (Rte 29)					Plank Rd					Plank Rd					GRAND TOTAL
	From North					From South					From East					From West					
	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	
DAY 2: 3/15/18																					
00:15	0	1	20	2	23	0	0	5	1	6	0	1	0	0	1	0	0	0	0	3	33
00:30	0	0	13	0	13	0	0	7	0	7	0	0	0	0	0	0	0	2	0	2	22
00:45	0	2	10	2	14	0	0	4	0	4	0	1	1	3	0	1	1	0	0	2	23
01:00	0	0	12	1	13	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	19
01:15	0	0	3	0	3	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	5
01:30	0	0	3	3	6	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	13
01:45	0	0	8	0	8	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	12
02:00	0	0	6	0	6	0	0	8	0	8	0	0	0	0	0	0	0	0	0	0	14
02:15	0	0	6	0	6	0	0	3	0	3	0	0	0	1	1	0	0	0	0	0	10
02:30	0	0	6	0	6	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	7
02:45	0	1	5	0	6	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	8
03:00	0	0	2	0	2	0	0	1	0	1	0	1	0	1	0	1	0	1	0	1	6
03:15	0	0	4	0	4	0	0	4	1	5	0	0	2	2	0	1	0	0	0	1	12
03:30	0	1	5	2	8	0	0	6	1	7	0	0	0	0	0	0	0	0	0	0	15
03:45	0	0	1	0	1	0	0	6	0	6	0	3	0	0	3	0	0	0	0	0	10
04:00	0	2	2	0	4	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	10
04:15	0	0	2	0	2	0	0	11	0	11	0	1	0	0	1	0	0	0	0	0	14
04:30	0	1	3	0	4	0	0	12	1	13	0	2	4	1	3	0	0	0	0	0	20
04:45	0	0	5	0	5	0	0	18	3	21	0	0	0	0	0	1	1	0	2	28	
05:00	0	0	3	0	3	0	1	11	1	13	0	0	0	1	1	0	0	0	0	0	17
05:15	0	0	4	2	6	0	0	20	1	21	0	0	1	2	3	0	2	1	0	3	33
05:30	0	0	9	0	9	0	0	26	2	28	0	0	1	2	3	0	2	1	0	3	41
05:45	0	0	10	0	10	0	1	45	1	47	0	0	0	5	5	0	2	0	0	2	64
06:00	0	0	10	1	11	0	0	47	2	49	0	0	1	0	1	0	7	0	0	7	68
06:15	0	1	12	0	13	0	2	83	4	89	0	0	1	0	1	0	7	3	3	13	116
06:30	0	3	24	0	27	0	2	98	4	104	0	2	2	3	7	0	5	4	3	12	150
06:45	0	6	26	1	33	0	1	126	3	130	0	0	7	6	13	0	15	2	4	21	197
07:00	0	9	33	1	43	0	3	94	9	106	0	2	3	3	8	0	7	5	7	10	176
07:15	0	2	32	4	38	0	3	135	9	147	0	1	4	5	10	0	13	3	3	19	214
07:30	0	4	37	8	49	0	2	182	5	189	0	3	7	11	0	14	1	6	21	270	
07:45	0	5	45	8	58	0	3	202	16	221	0	3	7	13	23	0	20	4	6	30	332
08:00	0	8	60	3	71	0	2	171	7	180	0	4	10	5	19	0	26	5	1	32	302
08:15	0	7	37	7	51	0	3	147	3	153	0	1	4	12	17	0	14	6	2	22	243
08:30	0	8	46	9	64	0	8	152	6	166	0	1	3	9	13	0	17	6	4	27	276
08:45	0	9	49	9	68	0	5	139	8	152	0	4	5	9	18	0	16	5	4	22	260
09:00	1	7	48	9	65	0	5	109	5	119	0	2	1	11	14	0	13	5	1	19	217
09:15	0	9	45	13	67	0	10	111	11	132	0	2	4	7	13	0	11	3	2	16	228
09:30	0	7	62	7	76	0	3	108	11	122	0	5	5	9	19	0	14	5	2	21	238
09:45	0	5	57	10	72	0	0	111	10	121	0	3	0	10	13	0	11	1	3	15	221
10:00	0	9	68	9	86	0	0	135	13	150	0	4	12	22	0	6	3	2	11	227	
10:15	0	10	51	7	68	0	5	71	6	82	0	9	6	9	24	0	10	3	1	14	188
10:30	0	6	49	7	62	0	2	91	9	102	0	5	2	7	14	0	6	8	1	15	193
10:45	0	15	57	2	74	0	4	105	2	111	0	3	2	6	11	0	9	5	4	18	214
11:00	0	8	62	2	72	0	4	85	4	89	0	7	0	3	10	0	12	4	3	19	190
11:15	0	8	64	7	79	0	6	92	4	102	0	7	4	4	12	0	5	2	2	9	202
11:30	0	6	64	7	77	0	2	68	8	75	0	7	4	5	17	0	8	4	3	15	188
11:45	0	7	84	9	100	0	3	72	10	85	0	3	4	10	12	0	11	0	4	15	210
12:00	0	13	66	8	87	0	2	66	9	77	0	3	6	6	15	0	5	6	5	16	195
12:15	0	13	52	9	74	0	1	60	14	75	0	6	3	5	14	0	12	5	1	18	181
12:30	0	7	90	9	105	0	2	77	6	85	0	3	8	6	17	0	2	2	1	5	213
12:45	1	8	86	5	100	0	4	90	9	103	0	11	7	5	18	0	7	4	3	13	235
13:00	0	9	77	12	98	0	2	72	6	80	0	3	5	5	13	0	6	2	1	9	200
13:15	0	5	77	15	97	0	3	67	10	80	0	3	7	4	14	0	0	2	1	3	194
13:30	0	11	88	10	109	0	3	78	7	88	0	3	5	6	14	0	8	3	4	15	226
13:45	2	9	70	12	93	0	0	68	4	72	0	5	4	4	13	0	3	6	3	12	190
14:00	0	5	91	8	106	0	4	98	7	109	0	5	6	4	15	0	10	4	3	16	246
14:15	0	7	102	5	114	0	0	70	3	73	0	5	7	5	18	0	12	4	3	19	224
14:30	1	10	113	5	129	0	1	91	8	100	0	5	5	2	12	0	10	2	1	13	254
14:45	0	14	109	11	134	0	3	72	1	76	0	7	4	3	14	0	9	6	7	22	246
15:00	1	9	100	11	121	0	3	73	9	85	0	8	3	5	16	0	8	6	3	17	239
15:15	0	5	100	11	116	0	2	70	6	78	0	4	7	8	19	0	10	5	5	20	233
15:30	0	9	105	8	121	0	3	62	2	67	0	6	0	5	8	0	9	3	2	13	239
15:45	0	12	122	16	150	0	4	96	8	107	0	8	3	9	20	0	13	5	6	24	301
16:00	0	11	152	11	174	0	2	64	5	71	0	12	6	6	24	0	14	8	6	28	297
16:15	2	17	155	11	185	0	3	74	6	83	0	9	5	3	17	0	7	8	5	20	305
16:30	0	14	171	24	209	0	7	77	7	91	0	10	3	9	22	0	12	11	7	30	352
16:45	1	18	165	15	199	0	3	69	4	76	0	15	8	1	24	0	6	3	8	17	316
17:00	0	29	191	13	233	0	10	69	6	85	0	11	6	8	27	0	12	3	1	16	361
17:15	0	13	179	25	217	0	7	83	7	97	0	7	7	8	27	0	9	6	3	18	354
17:30	1	18	174	19	212	0	5	83	3	91	0	12	8	8	28	0	13	10	9	32	363
17:45	0	24	188	14	226	0	1	64	7	72	0	14	8	9	31	0	8	8	5	21	350
18:00	1	23	154	15	193	0	3	64	6	73	0	15	10	7	32	0	7	3	10	20	318
18:15	1	26	123	7	157	0	3	52	3	58	0	11	5	6	22	0	4	11	3	18	255
18:30	3	7	128	16	154	0	4	56	5	68	0	7	3	7	17	0	9	4	4	17	256
18:45	0	11	118	18	137	0	3	58	3	64	0	7	6	2	15	0	7	6	1	14	230
19:00	0	12	85	16	113	0	1	55	4	60	0	3	6	4	13	0	4	6	5		

A. Morton Thomas & Associates, Inc.
Turning Movement Counts - Field Sheet (Box Trucks)

Job No.: 17-0013.003
 Location: Plank Rd at Monacan Trail Rd (Rte 29)
 Date: 3/14/2018 & 3/15/2018
 Recorder: AMT
 Interval (dd): 15 (in Minutes)

State: Virginia
 Town: North Garden
 Weather:

PEAK HOURS	AM PERIOD 12:00AM-12:00PM	Start 08:15	End 09:15	Volume 50	PM PERIOD 12:00PM-12:00AM	Start 13:00	End 14:00	Volume 34
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Street Name->	Monacan Trail Rd (Rte 29)					Monacan Trail Rd (Rte 29)					Plank Rd					Plank Rd					GRAND TOTAL
HOUR ENDING	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	
DAY 1: 3/14/18																					
00:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:30	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
00:45	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	2
01:00	0	0	0	0	0	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	4
01:15	0	0	0	0	0	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	4
01:30	0	0	0	0	0	0	0	7	0	7	0	0	0	0	0	0	0	0	0	0	7
01:45	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	3
02:00	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	2
02:15	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	2
02:30	0	0	0	0	0	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	4
02:45	0	0	2	0	2	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	3
03:00	0	0	1	0	1	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	4
03:15	0	0	2	0	2	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	4
03:30	0	0	1	0	1	0	0	4	0	4	0	0	0	0	0	1	1	0	0	0	6
03:45	0	0	1	0	1	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	4
04:00	0	0	2	0	2	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	6
04:15	0	0	2	0	2	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	5
04:30	0	0	2	0	2	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	7
04:45	0	0	4	0	4	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	10
05:00	0	0	5	0	5	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	7
05:15	0	0	0	0	0	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	8
05:30	0	0	2	0	2	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	6
05:45	0	0	3	0	3	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	10
06:00	0	0	2	0	2	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	8
06:15	0	0	4	0	4	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	10
06:30	0	0	4	0	4	0	0	9	0	9	0	0	1	0	1	0	0	0	0	0	14
06:45	0	0	1	0	1	0	0	7	0	7	0	0	0	0	0	0	0	0	0	0	8
07:00	0	0	3	0	3	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	7
07:15	0	0	6	0	6	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	12
07:30	0	0	0	0	0	0	0	7	0	7	0	0	0	0	0	0	0	0	0	0	8
07:45	0	0	4	0	4	0	0	7	0	7	0	0	0	0	0	0	0	0	0	0	11
08:00	0	2	2	0	4	0	0	3	0	3	0	0	0	0	0	2	2	0	0	0	9
08:15	0	3	2	0	5	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	13
08:30	0	0	1	0	1	0	0	7	0	7	0	0	0	0	0	0	0	0	0	0	13
08:45	0	3	4	0	7	0	0	5	1	6	0	1	0	0	1	2	3	0	1	1	18
09:00	0	1	1	1	3	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	7
09:15	0	3	1	1	5	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	12
09:30	0	0	3	1	4	0	0	4	0	4	0	0	0	1	0	1	0	0	0	0	11
09:45	0	0	4	0	4	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	8
10:00	0	0	3	1	4	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	10
10:15	0	1	3	1	5	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	9
10:30	0	1	1	0	2	0	0	1	5	6	0	0	0	0	1	0	0	0	0	0	9
10:45	0	2	2	0	4	0	0	1	3	4	0	0	0	0	0	0	0	0	0	0	7
11:00	0	0	1	1	2	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	5
11:15	0	0	2	0	2	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	6
11:30	0	0	0	0	0	0	0	3	0	3	0	0	1	0	1	0	0	0	0	0	3
11:45	0	0	2	0	2	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	7
12:00	0	1	3	0	4	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	10
12:15	0	3	3	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
12:30	0	1	4	0	5	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	11
12:45	0	1	5	1	7	0	0	1	3	4	0	0	0	0	0	0	0	0	0	0	11
13:00	0	3	0	1	4	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	11
13:15	0	0	4	3	7	0	0	3	0	3	0	0	0	0	0	3	4	0	0	0	17
13:30	0	2	1	1	4	0	0	3	0	3	0	0	0	0	0	1	0	1	0	0	9
13:45	0	0	5	2	7	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	11
14:00	0	0	4	2	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
14:15	0	0	2	2	4	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	6
14:30	0	1	3	6	10	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	10
14:45	0	0	4	2	6	0	0	3	0	3	0	0	0	0	0	1	2	0	0	0	15
15:00	0	0	5	1	6	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	9
15:15	0	0	8	1	9	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	10
15:30	0	1	4	0	5	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	12
15:45	0	0	2	0	2	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	5
16:00	0	0	4	1	5	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	6
16:15	0	0	4	1	5	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	9
16:30	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	4
16:45	0	0	3	0	3	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	4
17:00	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
17:15	0	0	3	1	4	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	6
17:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
17:45	0	0	1	0	1	0	0	4	1	5	0	0	0	0	0	1	1	0	0	0	7
18:00	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	3
18:15	0	0	2	0	2	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	4
18:30	0	0	1	0	1	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	3
18:45	0	0	3	0	3	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	6
19:00	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
19:15	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
19:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20:00	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
20:15	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
20:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20:45	0	0	0																		

A. Morton Thomas & Associates, Inc.
Turning Movement Counts - Field Sheet (Tractor Trailers)

Job No.:

17-0013.003

Location:

Plank Rd at Monacan Trail Rd (Rte 29)

Date:

3/14/2018 & 3/15/2018

Recorder:

AMT

State:

Virginia

Town:

North Garden

Weather:

PEAK HOURS

AM PERIOD 12:00PM-12:00PM

Start 10:45

End 11:45

Volume 101

PM PERIOD 12:00PM-12:00AM

Start 14:00

End 15:00

Volume 85

Street Name->	Monacan Trail Rd (Rte 29)					Monacan Trail Rd (Rte 29)					Plank Rd					Plank Rd					GRAND TOTAL					
	From North					From South					From East					From West										
	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total						
DAY 1: 3/14/18	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
00:15	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
00:30	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
00:45	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
01:00	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
01:15	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
01:30	0	0	2	0	2	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
01:45	0	0	1	0	1	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
02:00	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
02:15	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
02:30	0	0	2	0	2	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
02:45	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
03:00	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
03:15	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
03:30	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
03:45	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
04:00	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
04:15	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
04:30	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
04:45	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
05:00	0	0	2	0	2	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
05:15	0	0	2	0	2	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	6
05:30	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
05:45	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
06:00	0	0	5	0	5	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	7
06:15	0	0	2	0	2	0	0	2	0	2	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	7
06:30	0	0	2	0	2	0	0	3	0	3	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	10
06:45	0	0	6	0	6	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
07:00	0	0	8	0	8	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
07:15	0	0	6	0	6	0	0	7	0	7	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	14
07:30	0	0	7	0	7	0	0	7	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
07:45	0	0	4	0	4	0	0	7	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
08:00	0	0	3	0	3	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
08:15	0	0	8	0	8	0	0	7	0	7	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	17
08:30	0	0	7	0	7	0	0	2	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
08:45	0	0	10	0	10	0	0	7	1	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
09:00	0	0	9	0	9	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
09:15	0	0	10	0	10	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
09:30	0	0	6	0	6	0	0	12	1	13	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	20
09:45	0	0	9	0	9	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
10:00	0	0	7	0	7	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
10:15	0	0	9	0	9	0	0	8	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
10:30	0	0	10	0	10	0	0	7	2	9	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	20
10:45	0	0	11	0	11	0	0	4	5	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
11:00	0	0	13	0	13	0	0	13	0	13	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	28
11:15	0	0	21	0	21	0	0	7	0	7	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	29
11:30	0	0	18	0	18	0	0	7	7	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
11:45	0	0	15	0	15	0	0	1	5	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
12:00	0	0	9	0	9	0	0	9	1	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
12:15	0	0	12	0	12	0	0	9	1	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
12:30	0	0	8	0	8	0	0	9	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
12:45	0	0	10	0	10	0	0	9	0	9	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	20
13:00	0	0	11	0	11	0	0	11	0	11	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	20
13:15	0	0	13	0	13	0	0	9	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
13:30	0	0	9	0	9	0	0	4	0	4	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	16
13:45	0	0	17	0	17	0	0	14	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
14:00	0	0	12	0	12	0	0	7	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
14:15	0	0	10	0	10	0	0	18	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
14:30	0	0	8	0	8	0	0	14	1	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
14:45	0	0	10	0	10	0	0	17	1	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
15:00	0	0	12	0	12	0	0	12	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
15:15</																										

Turning Movement Counts - Field Sheet (Tractor Trailers)

Job No.: 17-0013.003

Location: Plank Rd at Monacan Trail Rd (Rte 29)
 Date: 3/14/2018 & 3/15/2018
 Recorder: AMT
 Interval (dd):
 (in Minutes) 15

State: Virginia
 Town: North Garden
 Weather:

PEAK HOURS	AM PERIOD	Start	End	Volume	PM PERIOD	Start	End	Volume
	12:00AM-12:00PM	10:45	11:45	101	12:00PM-12:00AM	14:00	15:00	85

PEAK HOURS	AM PERIOD	Start	End	Volume	PM PERIOD	Start	End	Volume
	12:00AM-12:00PM	10:45	11:45	112	12:00PM-12:00AM	15:15	16:15	109

Street Name →	Monacan Trail Rd (Rte 29)					Monacan Trail Rd (Rte 29)					Plank Rd					Plank Rd					GRAND TOTAL
	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	U turn	Left	Through	Right	Total	
DAY 2: 3/15/18																					
00:15	0	0	2	1	3	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	6
00:30	0	0	3	0	3	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	4
00:45	0	0	1	0	1	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	4
01:00	0	0	2	0	2	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	7
01:15	0	0	3	0	3	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	9
01:30	0	0	3	0	3	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	7
01:45	0	0	1	0	1	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	5
02:00	0	0	2	0	2	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	4
02:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30	0	0	3	0	3	0	0	6	1	7	0	0	0	0	0	0	0	0	0	0	10
02:45	0	0	3	0	3	0	0	7	0	7	0	0	0	0	0	0	0	0	0	0	10
03:00	0	0	2	0	2	0	0	3	3	6	0	0	0	0	0	0	0	0	0	0	10
03:15	0	0	2	0	2	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	4
03:30	0	0	6	0	6	0	0	7	0	7	0	0	0	0	0	0	0	0	0	0	13
03:45	0	0	5	0	5	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	6
04:00	0	0	3	0	3	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	9
04:15	0	0	2	0	2	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	4
04:30	0	0	9	0	9	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	15
04:45	0	0	5	0	5	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	8
05:00	0	0	6	0	6	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	12
05:15	0	0	2	0	2	0	0	3	0	3	0	1	0	0	1	0	0	0	0	0	6
05:30	0	0	4	0	4	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	5
05:45	0	0	6	0	6	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	12
06:00	0	0	8	0	8	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	14
06:15	0	0	8	0	8	0	0	7	0	7	0	0	0	0	0	0	0	0	0	0	15
06:30	0	0	5	0	5	0	0	10	0	10	0	0	0	0	0	0	0	0	0	0	10
06:45	0	0	8	0	8	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	10
07:00	0	0	3	0	3	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	10
07:15	0	0	6	0	6	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	10
07:30	0	0	7	0	7	0	0	7	0	7	0	0	0	0	0	0	0	0	0	0	14
07:45	0	1	6	0	7	0	0	10	1	11	0	0	0	0	0	0	0	0	0	0	18
08:00	0	0	3	0	3	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	8
08:15	0	0	12	0	12	0	0	15	0	15	0	0	0	0	0	0	0	0	0	0	28
08:30	0	0	14	0	14	0	0	12	0	12	0	0	0	0	0	0	0	0	0	0	27
08:45	0	0	7	0	7	0	0	19	0	19	0	0	0	0	0	0	0	0	0	0	26
09:00	0	0	8	0	8	0	0	14	1	15	0	0	0	0	0	0	0	0	0	0	23
09:15	0	0	11	1	12	0	1	8	1	10	0	0	0	0	0	0	0	1	0	1	23
09:30	0	1	7	0	8	0	0	6	0	6	0	0	1	2	3	0	0	0	0	0	17
09:45	0	0	15	3	18	0	0	7	0	7	0	2	0	2	0	0	0	0	0	0	27
10:00	0	1	9	0	10	0	0	12	0	12	0	0	0	0	0	0	0	0	0	0	22
10:15	0	1	16	0	17	0	1	6	0	7	0	0	0	0	0	0	0	0	0	0	24
10:30	0	0	7	1	8	0	0	8	1	9	0	0	0	0	0	0	0	0	0	0	17
10:45	0	0	12	0	12	0	0	13	0	13	0	0	0	1	1	0	0	1	0	1	27
11:00	0	0	13	0	13	0	0	9	0	9	0	1	0	0	1	0	0	0	0	0	23
11:15	0	0	13	0	13	0	0	12	0	12	0	0	0	0	0	2	3	0	0	0	28
11:30	0	1	18	0	19	0	0	11	0	11	0	0	0	0	0	0	0	0	0	0	31
11:45	0	1	16	1	18	0	0	12	0	12	0	0	0	0	0	0	0	0	0	0	30
12:00	0	0	8	1	9	0	0	4	0	4	0	0	1	0	1	0	0	0	0	0	14
12:15	0	0	12	1	13	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	19
12:30	0	1	10	0	11	0	0	21	1	22	0	1	0	0	1	0	0	0	0	0	34
12:45	0	0	5	2	7	0	0	8	0	8	0	0	0	0	0	0	0	0	1	1	20
13:00	0	0	9	0	9	0	0	8	1	9	0	1	0	0	1	0	0	0	1	1	20
13:15	0	1	12	0	13	0	0	5	0	5	0	0	0	2	2	0	0	0	0	0	20
13:30	0	0	6	0	6	0	0	7	0	7	0	1	0	0	1	0	0	0	0	0	14
13:45	0	1	12	0	13	0	0	6	0	6	0	1	0	0	1	0	0	0	0	0	20
14:00	0	0	14	1	15	0	0	10	0	10	0	0	0	0	0	0	0	0	0	0	12
14:15	0	0	8	0	8	0	0	12	0	12	0	0	0	0	0	0	0	0	0	0	21
14:30	0	0	17	0	17	0	0	10	1	11	0	0	0	1	1	0	0	0	0	0	29
14:45	0	0	10	0	10	0	0	11	0	11	0	0	0	0	0	1	0	0	0	0	22
15:00	0	0	14	0	14	0	0	12	1	13	0	0	0	1	1	0	0	0	0	0	28
15:15	0	0	17	2	19	0	0	10	0	10	0	0	0	0	0	0	0	0	1	1	30
15:30	0	0	3	0	3	0	0	11	0	11	0	0	0	0	0	0	0	0	0	0	20
15:45	0	0	10	0	10	0	0	7	1	8	0	0	0	0	0	1	0	0	0	0	19
16:00	0	1	14	1	16	0	0	10	1	11	0	0	0	0	0	0	0	0	1	1	28
16:15	0	0	17	0	17	0	1	16	0	17	0	0	0	2	2	0	0	0	0	0	36
16:30	0	0	9	0	9	0	0	7	0	7	0	0	0	0	0	0	0	0	0	0	16
16:45	0	0	8	0	8	0	0	7	0	7	0	0	0	0	0	0	0	0	0	0	12
17:00	0	0	8	0	8	0	0	11	0	11	0	0	0	0	0	0	0	0	0	0	19
17:15	0	0	8	0	8	0	0	7	0	7	0	0	0	0	0	0	0	0	0	0	15
17:30	0	0	7	0	7	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	13
17:45	0	0	12	0	12	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	16
18:00	0	0	8	0	8	0	0	9	0	9	0	0	0	0	0	0	0	0	0	0	15
18:15	0	0	5	0	5	0	0	13	0	13	0	0	0	0	0	0	0	0	0	0	19
18:30	0	0	13	0	13	0	0	10	0	10	0	0	0	0	0	0	0	0	0	0	23
18:45	0	0	11	0	11	0	0	11	0	11	0	0	0	0	0	0	0	0</			

Crash Rate Calculations

Crash Rate Calculations

The crash rate for roadway departure crashes on a roadway is calculated as:

Formula: R equals C x 100,000,000 divided by V x 365 x N x L

The variables in this equation are:

R = Roadway Departure crash rate for the road segment expressed as crashes per 100 million vehicle-miles of travel

C = Total number of roadway departure crashes in the study period

V = Traffic volumes using Average Annual Daily Traffic (AADT) volumes

N = Number of years of data

L = Length of the roadway segment in miles

North of Dick Woods Road

$$R = \frac{100,000,000 * 21}{365 * 5 * 2330 * 3} = \frac{2100000000}{12756750} = 164.619 \text{ per 100 million vehicle miles}$$

South of Dick Woods Road

$$R = \frac{100,000,000 * (34-21)}{365 * 5 * 1099 * 2} = \frac{1300000000}{4011350} = 324.08 \text{ per 100 million vehicle miles}$$

Culpeper District Average (2-Lane Rural): 147.08 per 100 million vehicle miles

Travel Time/Average Truck Speed Calculations

Total Travel Time and Average Truck Speed Calculations

	Avg Speed/Travel Time Google Maps - Cars		Avg Speed/Travel Time Adjusted - Trucks	
Current Route (11.3 Miles)	60 min 1 hour	11.3 miles 17 min 39.9 mph 17.0 min	11.3 miles 34.2 mph	60 min 1 hour 34.2 mph 19.8 min
Alt. Route (19.5 Miles)	60 min 1 hour	19.5 miles 18 min 65.0 mph 18.0 min	19.5 miles 60.2 mph	60 min = 1 hour 60.2 mph 19.4 min -Δ 0.4 min

Average Speed - Google Maps:	Avg Car Speed: 37.5 mph	Avg Car Speed: 48.0 mph	Avg Car Speed: 36.0 mph	Avg Car Speed: 57.0 mph	Avg Car Speed: 30.0 mph	Avg Car Speed: 65.3 mph	Avg Car Speed: 64.8 mph	Totals	Average Speed
	Speed Reduction for Trucks	85% speed of Car	85% speed of Car	85% speed of Car	90% speed of Car	90% speed of Car	90% speed of Car		
	Miller School Road	Plank Road	Plank Road	US 250	US 250	US 29	I-64		
	Posted 25-45 mph	East of Miller School Rd Posted 25-45 mph	West of Miller School Rd Posted 25-45 mph	South of I-64 Posted 55 mph	North of I-64 Posted 45 mph	Posted 60 mph	Posted 70 mph		
	Avg Truck Speed: 32 mph	Avg Truck Speed: 41 mph	Avg Truck Speed: 31 mph	Avg Truck Speed: 51 mph	Avg Truck Speed: 27 mph	Avg Truck Speed: 59 mph	Avg Truck Speed: 62 mph		
Δ Car vs. Truck	Δ 5.6 mph	Δ 7.2 mph	Δ 5.4 mph	Δ 5.7 mph	Δ 3.0 mph	Δ 6.5 mph	Δ 3.2 mph		
VDOT Classification	Major Collector	Major Collector	Major Collector	Minor Arterial	Minor Arterial	Principal Arterial	Interstate		
Miles per Roadway	5.0 miles	4.8 miles	0.0 miles	0.0 miles	1.5 miles	0.0 miles	0.0 miles	11.3 miles	
Travel Time: Cars (Google)	8 min	6 min	0 min	0 min	3 min	0 min	0 min	17.0 min	Car: 39.9 mph
Travel Time: Trucks	9 min	7 min	0 min	0 min	3 min	0 min	0 min	19.8 min	Truck: 34.2 mph
Miles per Roadway	0.0 miles	4.8 miles	4.9 miles	4.0 miles	0.0 miles	0.0 miles	0.0 miles	13.7 miles	
Travel Time: Cars (Google)	0 min	6 min	8 min	4 min	0 min	0 min	0 min	18.4 min	Car: 44.7 mph
Travel Time: Trucks	0 min	7 min	10 min	5 min	0 min	0 min	0 min	21.3 min	Truck: 38.5 mph
Miles per Roadway	0.0 miles	0.0 miles	0.0 miles	0.0 miles	0.0 miles	8.8 miles	10.7 miles	19.5 miles	
Travel Time: Cars (Google)	0 min	0 min	0 min	0 min	0 min	8 min	10 min	18.0 min	Car: 65.0 mph
Travel Time: Trucks	0 min	0 min	0 min	0 min	0 min	9 min	10 min	19.4 min	Truck: 60.2 mph

Alternative - Alternative #1
Current route #2