EVALUATION OF HIGH CRASH LOCATIONS (DARK CRITERIA) STUDY



LOCATION #10: SR 92 (Naamans Road) MILEPOST 0 to 1.29 November 2012



Prepared for: Delaware Department of Transportation



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EXECUTIVE SUMMARY

The purpose of this study was to evaluate locations with the highest ratios of crashes occurring during dark conditions throughout the state of Delaware. The study included reviewing crash history and existing conditions of the locations, identifying specific sites where crashes are occurring and providing recommendations to improve conditions.

The Hazard Elimination Program (HEP) site selection process was used to determine ten (10) locations statewide with a dark crashes Critical Ratio greater than one and ten (10) or more crashes occurring in the three year study period within a one-mile roadway segment. SR 92 (Naamans Road), from Milepost 0 to 1.29, was determined to be one of the ten locations with the highest dark crashes Critical Ratios statewide.

Police crash reports covering three years were analyzed to identify high crash sites along SR 92 (Naamans Road), from Milepost 0 to 1.29. Crash clusters were identified at the following five (5) locations:

- Site #1: SR 92 @ US 202 (Concord Pike) Intersection (M.P. 0)
- Site #2: SR 92 @ Stratford Apartments Entrance/Brandywine Town Center Entrances Intersection (M.P. 0.26)
- Site #3: SR 92 @ Shipley Road Intersection (M.P. 0.52)
- Site #4: SR 92 @ Grubb Road Intersection (M.P. 0.89)
- Site #5: SR 92 @ Ebright Road Intersection (M.P. 1.07)

The analysis of the five (5) sites concluded the following: Sites #1, #2, #3 and #4 have existing partial intersection lighting. Additional new luminaires would be required to bring the light levels up to meet DelDOT lighting criteria. Photometric calculations are recommended to evaluate the existing lighting at each of these sites.

Due to the high number of rear end crashes at Sites #2 and #3, it is recommended that the signal timings and signal coordination along SR 92 be evaluated at these sites.

Two maintenance-related improvements were recommended. At Site #2, the sign that was knocked down in the median adjacent to the SR 92 Westbound approach left turn lanes stop bar should be replaced. At Site #4, the transformer base cover should be replaced for DelDOT pole #1702 on the southeast corner of the intersection.

Upon analysis of the crash history, Site #5 did not have a high enough night-to-day crash ratio to warrant closer evaluation for potential nighttime safety improvements.

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1. INTRODUCTION

The purpose of this study was to evaluate locations with the highest ratios of crashes occurring during dark conditions throughout the state of Delaware. The study included reviewing crash history and existing conditions of the locations, identifying specific sites where crashes are occurring and providing recommendations to improve conditions.

The study included three parts:

Part 1: Location Selection – The Hazard Elimination Program (HEP) site selection process was used to determine ten (10) locations statewide with a dark crashes Critical Ratio greater than one and ten (10) or more crashes occurring in the three year study period within a one-mile roadway segment. Results from the location selection process were reviewed in coordination with DelDOT. Corridors that were already part of an ongoing HSIP or HEP project were not included in this study. The Critical Ratio methodology was used in the location selection process. The list of statewide 1.0 mile corridors ranked by Critical Ratio is included in **Appendix D**.

Part 2: Evaluation – After the list of the top ten locations was approved by DelDOT, an initial review was performed for each selected location. The evaluation included field visits to the sites; collecting information on existing roadway and traffic conditions; crash analysis; preliminary lighting evaluation; and this report. The report includes existing lighting analysis; concept lighting improvement alternatives; other signing, striping and signal recommendations in accordance with the Delaware Strategic Highway Safety Plan (SHSP), particularly related to dark crashes; potential design/implementation issues, and identification of the need for more detailed studies (Phase II studies).

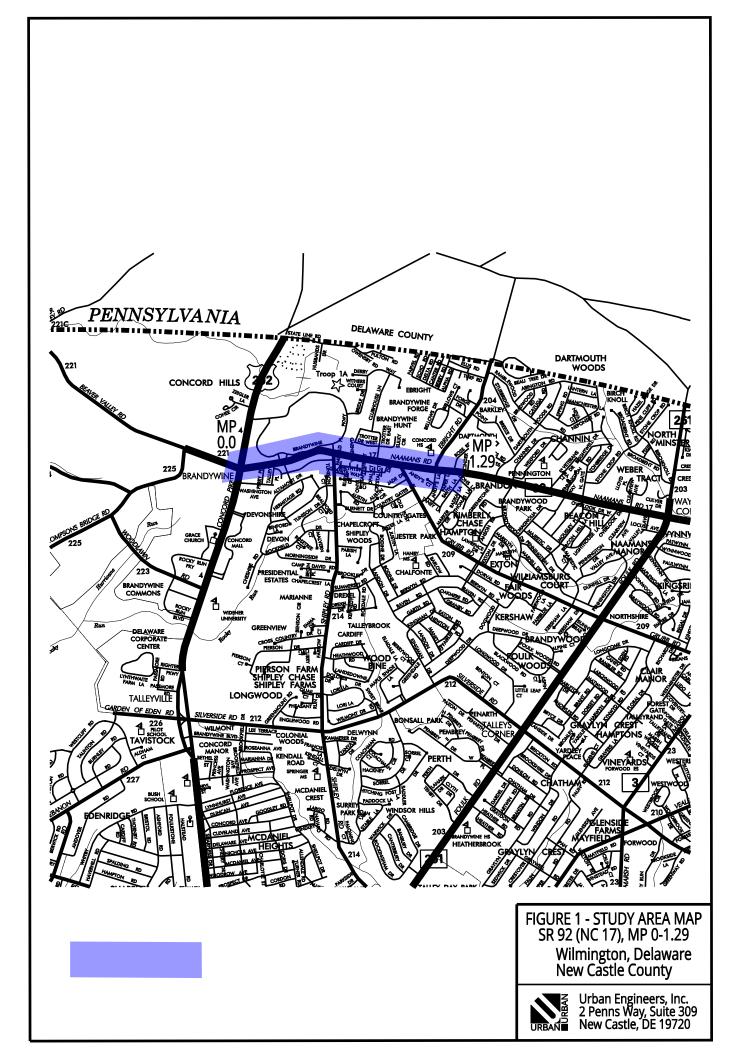
Part 3: Coordination – When possible, DelDOT-approved recommendations are coordinated for inclusion into the construction of ongoing DelDOT projects (HEP, Pavement & Rehabilitation, PD, etc.).

The location selection process resulted in a list of ten locations, including SR 92 (Naamans Road) from milepost 0 to 1.29 in Wilmington, Delaware.

SR 92 (Naamans Road)

The evaluation and recommendations for SR 92 (Naamans Road), from milepost 0 to 1.29, are included in this report. The studied portion of SR 92 is a 1.29-mile stretch of principal arterial roadway in suburban Wilmington, Delaware.

A study area map is provided in Figure 1.



2. CRASH DATA SUMMARY

This evaluation was based on crash data during the three year period from May 16, 2008 to May 16, 2011.

A total of 170 crashes occurred on SR 92 (Naamans Road) from milepost 0 to 1.29 during the evaluation period.

There were no fatalities in the study area. Thirty-nine (39) of the crashes resulted in personal injuries.

Of the 170 crashes, 112 of the crashes occurred during daylight (66%). Forty (40) of the crashes occurred during dark-but lighted conditions (24%), 12 of the crashes occurred during dark conditions (7%), 4 of the crashes occurred during either dawn or dusk conditions (2%) and 2 of the crashes occurred in unknown conditions (1%).

The highest number of crashes (42) at a single site occurred at the intersection of SR 92 and Shipley Road.

Crashes were grouped together into sites based on their location along SR 92.

Site #1: SR 92 @ US 202 (Concord Pike) Intersection (M.P. 0)

There were 40 total crashes at the site during the evaluation period. Fifteen (15) of the crashes (38%) occurred during dark hours. This site has existing partial roadway lighting.

This site was selected for evaluation based on the crash history and the presence of partial roadway lighting.

<u>Site #2: SR 92 @ Stratford Apartments Entrance/Brandywine Town Center Entrances</u> Intersection (M.P. 0.26)

There were 31 total crashes at this site during the evaluation period. Twelve (12) of the crashes (39%) occurred during dark hours. This site has existing partial roadway lighting.

This site was selected for evaluation based on the crash history and the presence of partial roadway lighting.

Site #3: SR 92 @ Shipley Road Intersection (M.P. 0.52)

There were 42 total crashes at the site during the evaluation period. Eleven (11) of the crashes (26%) occurred during dark hours. This site has existing partial roadway lighting.

This site was selected for evaluation based on the presence of partial roadway lighting.

Site #4: SR 92 @ Grubb Road Intersection (M.P. 0.89)

There were 20 total crashes at the site during the evaluation period. Six (6) of the crashes (30%) occurred during dark hours. This site has existing roadway lighting.

This site was selected for evaluation based on the presence of partial roadway lighting.

Site #5: SR 92 @ Ebright Road Intersection (M.P. 1.07)

There were 20 total crashes at this site during the evaluation period. Four (4) of the crashes (20%) occurred during dark hours. This site has existing roadway lighting.

This site was not selected for evaluation based on the crash history.

3. ROADWAY AND SITE CHARACTERISTICS

SR 92 (Naamans Road) is a four-lane, divided, principal arterial roadway in the study area. Shoulders are present in both directions. The posted speed limit for SR 92 is 40 miles per hour west of Shipley Road and 45 miles per hour east of Shipley Road. There are five signalized intersections in the study area.

In 2010, SR 92 experienced Average Daily Traffic (ADT) of 27,965 vehicles in the study area.

Site #1: SR 92 @ US 202 (Concord Pike) Intersection (M.P. 0)

SR 92 and US 202 meet at a large, signalized intersection. The US 202 northbound and southbound approaches both include two left turn lanes, three through lanes and one channelized right turn lane. The SR 92 eastbound and westbound approaches both include two left turn lanes, two through lanes and one channelized right turn lane.

There are no pedestrian crosswalks at the intersection.



Photo 1: SR 92 and US 202 Intersection

Red light-running cameras are present at this intersection.

There are two (2) existing 250 Watt, High Pressure Sodium (HPS) Mongoose style luminaires at the intersection. The luminaires are on utility poles on the southeast and northeast corners.

<u>Site #2: SR 92 @ Stratford Apartments Entrance/Brandywine Town Center Entrances</u> Intersection (M.P. 0.26)

The main entrance to Brandywine Town Center includes two driveways. The west most driveway serves Southbound right turns and Eastbound left turns. The east most driveway served Southbound left turns and Westbound right turns. The SR 92 Eastbound approach includes two left turn lanes, two through lanes, and one right turn lane. The SR 92 Westbound approach includes two through lanes, and one right turn lane. The northbound approach is the access to the Stratford Apartments, it includes one left turn lane and a channelized right turn.

Pedestrian crosswalks are present on the west side of the east most driveway and the south side of the intersection.



Photo 2: SR 92 and Stratford Apartments Entrance / Brandywine Town Center Entrance Intersection

During a May 2012 field visit, the stub of a traffic sign post was observed in the median adjacent to the SR 92 Westbound approach left turn lanes stop bar. The sign post stub is shown on **Photo 3**.



Photo 3: Sign Post Stub at Westbound Left Turn Lane at SR 92 and Stratford Apartments Entrance / Brandywine Town Center Entrance Intersection

There is one utility pole-mounted 250 Watt, HPS cobrahead luminaire present on the south side of the intersection. Both Brandywine Town Center driveways include site lighting luminaires approximately 70 feet north of SR 92.

Site #3: SR 92 @ Shipley Road / Brandywine Town Center Entrance Intersection (M.P. 0.52)

The eastbound and westbound SR 92 approaches both include one left turn lane, two through lanes and one channelized right turn lane. The southbound Brandywine Town Center approach includes two left turn lanes, and one channelized right turn lane. The northbound Shipley Road approach includes two left turn lanes, and one channelized right turn lane.

A diagonal pedestrian crosswalk is present from the northwest island to the southeast island. Pedestrian crosswalks are also present on the south and north sides of the intersection.



Photo 4: SR 92 and Shipley Road / Brandywine Town Center Entrance Intersection

Red light-running cameras are present at this intersection.

There are several existing 250 Watt, HPS roadway luminaires at and approaching the intersection, including one on each corner of the intersection, except for the southwest corner. All of the existing roadway luminaires are mounted on utility poles. The Brandywine Town Center driveway includes site lighting luminaires approximately 40 feet north of SR 92.

Site #4: SR 92 @ Grubb Road Intersection (M.P. 0.89)

Grubb Road meets SR 92 from the south at this signalized T-intersection. The eastbound SR 92 approach includes two through lanes and one right turn lane. The westbound SR 92 approach includes one left turn lane, and two through lanes. The northbound Grubb Road approach includes one left turn lane, and one channelized right turn lane. Medians are present on both SR 92 approaches.

Pedestrian crosswalks are present on south and east sides of the intersection.



Photo 5: SR 92 and Grubb Road Intersection

There are four (4) existing 250 Watt, HPS cobrahead luminaires at the intersection. The existing luminaires are on DelDOT aluminum light poles. There is no luminaire on the southwest corner of the intersection.

During a May 2012 field visit, the transformer base cover for DelDOT pole #1702 on the southeast corner of the intersection was observed to be missing as shown on **Photo 6**.



Photo 6: Pole #1702 Transformer Base Cover Missing

4. LIGHTING WARRANT EVALUATION

The DelDOT Lighting Guidelines contain the conditions for determining if lighting is warranted at a given site. A warrant analysis is included below for each site that was chosen for evaluation.

Section 2.3, *Lighting Warrants*, of the DelDOT Lighting Guidelines states that lighting *should* be installed at "locations where crash patterns indicate that lighting may reduce crashes and where the percentage of nighttime accidents is 40 percent or greater." Section 2.3 also states that lighting *may* be installed at "locations where crash patterns indicate that lighting may reduce crashes and where the percentage of nighttime accidents is 35 percent or greater."

Site #1: SR 92 @ US 202 (Concord Pike) Intersection (M.P. 0)

Crash Patterns

The Crash Data Summary and Evaluation showed that there were 40 total crashes near this intersection during the three year evaluation period. Fifteen (15) of these crashes occurred during dark conditions.

The manner of impact of the fifteen (15) dark crashes was as follows:

- 7 Rear end (4 NB, 2 WB, 1 EB)
- 6 Angle (2 NB/SB LT, 1 NB RT/SB LT, 1 NB LT/SB, 1 NB/WB LT, 1 NB
- LT/EB/WB LT)
- 2 Ran off the road (EB, NB RT)

Percentage of Nighttime Crashes

Thirty-eight percent (15 out of 40) of the crashes at the site were during dark conditions according to the crash reports.

Lighting Warrant Results

Because the intersection has existing lighting at the intersection, the crash history is skewed compared to an unlit intersection. Therefore, the crash history cannot be relied upon in this circumstance for use in lighting warrant analysis.

<u>Site #2: SR 92 @ Stratford Apartments Entrance/Brandywine Town Center Entrances</u> Intersection (M.P. 0.26)

Crash Patterns

The Crash Data Summary and Evaluation showed that there were 31 total crashes near this intersection during the three year evaluation period. Twelve (12) of these crashes occurred during dark conditions.

The manner of impact of the twelve (12) dark crashes was as follows:

- 11 Rear end (9 EB, 2 WB)
- 1 Sideswipe (WB)

Percentage of Nighttime Crashes

Thirty-nine percent (12 out of 31) of the crashes that occurred at the site were during dark conditions according to the crash reports.

Lighting Warrant Results

Because the intersection has existing lighting at the intersection, the crash history is skewed compared to an unlit intersection. Therefore, the crash history cannot be relied upon in this circumstance for use in lighting warrant analysis.

Site #3: SR 92 @ Shipley Road Intersection (M.P. 0.52)

Crash Patterns

The Crash Data Summary and Evaluation showed that there were 42 total crashes near this intersection during the three year evaluation period. Eleven (11) of these crashes occurred during dark conditions.

The manner of impact of the eleven (11) dark crashes was as follows:

- 8 Rear end (3 EB, 3 WB, 1 NB, 1 SB RT)
- 2 Angle (EB/WB LT)
- Sideswipe (EB)

Percentage of Nighttime Crashes

Twenty-six percent (11 out of 42) of the crashes that occurred at the site were during dark conditions.

Lighting Warrant Results

Because the intersection has existing lighting at the intersection, the crash history is skewed compared to an unlit intersection. Therefore, the crash history cannot be relied upon in this circumstance for use in lighting warrant analysis.

Site #4: SR 92 @ Grubb Road Intersection (M.P. 0.89)

Crash Patterns

The Crash Data Summary and Evaluation showed that there were twenty (20) total crashes near this intersection during the three year evaluation period. Six (6) of these crashes occurred during dark conditions.

The manner of impact of the six (6) dark crashes was as follows:

- 4 Rear end (EB)
- 2 Angle (EB/WB LT)

Percentage of Nighttime Crashes

Thirty percent (6 out of 20) of the crashes that occurred at the site were during dark conditions.

Lighting Warrant Results

Because the intersection has existing lighting at the intersection, the crash history is skewed compared to an unlit intersection. Therefore, the crash history cannot be relied upon in this circumstance for use in lighting warrant analysis.

5. **RECOMMENDATIONS**

Recommendations are included below, and recommended improvements are summarized in the following table.

Site #1: SR 92 @ US 202 (Concord Pike) Intersection (M.P. 0)

Roadway Lighting

Due to the high percentage of crashes during dark conditions, photometric calculations would be beneficial to evaluate the existing lighting. The lighting levels would benefit from providing luminaires on the west side of the intersection. The intersection should be evaluated for complex intersection lighting as per Section 4.3.2 of the DelDOT Lighting Design Guidelines. Complex intersection lighting typically includes two (2) lights on the approaches to the intersection, and one (1) luminaire after the intersection.

Ongoing Projects

Improvements to this signal, including a box span signal design, were recommended as part of the 2011 HEP. HEP recommendations also included evaluating lighting on the northwest and southwest corners of the intersection.

<u>Site #2: SR 92 @ Stratford Apartments Entrance/Brandywine Town Center Entrances</u> Intersection (M.P. 0.26)

Roadway Lighting

Due to the high percentage of crashes during dark conditions, photometric calculations would be beneficial to evaluate the existing lighting. Currently there is only one luminaire at the intersection. Due to the close proximity of the two Brandywine Town Center entrance driveways (less than 150') the lighting calculation zone should encompass SR 92 between the driveways.

Signal Timings / Signal Coordination

Twenty-three (23) of the total 31 crashes at this site were rear end crashes. Of the rear end crashes, 11 involved westbound vehicles, 10 involved eastbound vehicles and two (2) involved southbound vehicles. Due to the high proportion of rear end crashes involving SR 92 traffic, it is recommended that signal clearance intervals at the intersection and signal coordination along SR 92 be evaluated. At the time of this report, signal timings are being modified by DeIDOT Traffic in coordination with DeIDOT's Transportation Management Center.

Ongoing Projects

In addition to the ongoing signal timing improvements, other signal improvements are expected at this intersection. These improvements were 2011 HEP recommendations.

Maintenance

The sign that was knocked down in the median adjacent to the SR 92 Westbound approach left turn lanes stop bar should be replaced.

Site #3: SR 92 @ Shipley Road Intersection (M.P. 0.52)

Roadway Lighting

Because the intersection features luminaires that appear to only cover part of the intersection, photometric calculations would be beneficial to evaluate the existing lighting. Specifically, there are existing luminaires surrounding the intersection on all corners, except on the southwest corner. The photometric calculations should evaluate how adding a luminaire on the southwest corner would impact the lighting levels. A new utility pole-mounted luminaire may be feasible on the southwest corner.

Signal Timings / Signal Coordination

Thirty-four (34) of the total 42 crashes at this site were rear end crashes. Of the rear end crashes, 19 involved westbound vehicles, 8 involved eastbound vehicles, six (6) involved northbound vehicles, and one (1) involved southbound vehicles. Due to the high proportion of rear end crashes involving SR 92 traffic, it is recommended that signal clearance intervals at the intersection and signal coordination along SR 92 be evaluated. The presence of red light running cameras at the intersection may also be contributing to the amount of rear end crashes at the intersection.

Ongoing Projects

Signal head backplates will be installed at this intersection in fiscal year 2013. The backplates were recommended from the 2011 HEP.

Site #4: SR 92 @ Grubb Road Intersection (M.P. 0.89)

Roadway Lighting

Because the intersection features luminaires that appear to only cover part of the intersection, photometric calculations would be beneficial to evaluate the existing lighting. Specifically, there are existing luminaires surrounding the intersection on all corners, except on the southwest corner. The photometric calculations should evaluate how adding a luminaire on the southwest

corner would impact the lighting levels. A new utility pole-mounted luminaire may be feasible on the southwest corner.

Ongoing Projects

Signal head backplates will be installed at this intersection in fiscal year 2013. The backplates were recommended from the 2011 HEP.

Maintenance

The transformer base cover should be replaced for DelDOT pole #1702 on the southeast corner of the intersection.

Recommended Improvements

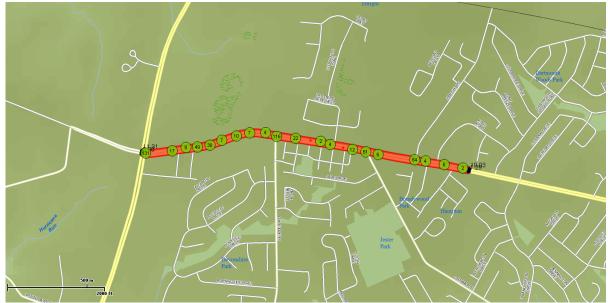
Site	Recommended Improvement
#1. SR 92 @ US 202 Intersection (MP 0)	Evaluate for complex intersection lighting as per Section 4.3.2 of the DeIDOT Lighting Design Guidelines.
#2. SR 92 @ Stratford Apartments Entrance / BTC Entrance Intersection (MP 0.26)	Evaluate the existing lighting with photometric calculations. Due to the close proximity of the two Brandywine Town Center entrance driveways (less than 150') the lighting calculation zone should encompass SR 92 between the driveways. Replace sign that was knocked down in the median adjacent to the SR 92 Westbound approach left turn lanes stop bar.
#3. SR 92 @ Shipley Rd Intersection (MP 0.52)	Evaluate how adding a luminaire on the southwest corner would impact the lighting levels. A new utility pole-mounted luminaire may be feasible on the southwest corner. Evaluate signal clearance intervals at the intersection and signal coordination along SR 92.
#4. SR 92 @ Grubb Rd Intersection (MP 0.89)	Evaluate how adding a luminaire on the southwest corner would impact the lighting levels. A new utility pole-mounted luminaire may be feasible on the southwest corner. Replace transformer base for DeIDOT pole #1702 on the southeast corner of the intersection.

APPENDIX A: Crash Data Summary

Delaware Crash Analysis Reporting System (CARS)

Crash Study Time Period: Query Type: Description: Study Period from 05-16-2008 to 05-16-2011 dualHwyBuffer N17 DE 92 Naamans Road MP 0.00-1.29

Study Requested By:	LD
Study Generated By:	tdtsswn
Number of Crashes:	170
Includes Non-Reportable Crashes:	Ν
Study Code:	



State of Delaware Crash Study Summary

C		-	Classificat	008 to 05-16-20	Manner Of Impact						
Sum	mary # of Crashes		1		IVI3	# of Crashes	% of Total				
Total Crashes	# of Crashes		# of Crash	es % of Total Crashes		# of Crashes	% of Total Crashes				
Fatal Crashes	0	Non-	0	0.00%	Front to rear	117	68.82%				
Total Alcohol-	4	Reportable			Front to front	5	2.94%				
Related Crashes	4	Reportable	131	77.06%	Angle	22	12.94%				
Total Non Alcohol- Related Crashes	166	Personal Injury	39	22.94%	Sideswipe, same	13	7.65%				
Total Fatalities	0	Fatality	0	0.00%	direction						
Total Pedestrian Fatalities	0	Total	170		Sideswipe, opposite direction	3	1.76%				
Total Pedestrian Injuries	1				Rear to side	0	0.00%				
- Total Pedestrian	1				Rear to rear	2	1.18%				
Crashes					Other	2	1.18%				
Total Motorcycle	3				Unknown	1	0.59%				
Crashes Total Pedalcyclist Crashes	0				Not a collision between two vehicles	5	2.94%				
					Total	170					
		Alcohol Relate	ed Crashes	by Classification	on						
	Non-reportable	Reportat		Personal Injury	Fatality	,	Total				
Alcohol Related	0	2		2	0		4				
Non-Alcohol Related	0	129		37	0		166				
Total	0	131		39	0		170				
		Manner of	Impact By	Classification							
	Non-Reportable	Reportat	ole F	Personal Injury	Fatality	,	Total				
Front to rear	0	92		25	0		117				
Front to front	0	2		3	0		5				
Angle	0	15		7	0		22				
Sideswipe, same direction	0	11		2	0		13				
Sideswipe, opposite direction	0	2		1	0		3				
Rear to side	0	0		0	0		0				
Rear to rear	0	2		0	0		2				
Other	0	2		0	0		2				
Unknown	0	1		0	0		1				
Not a collision between two vehicles	0	4		1	0		5				
Total	0	131		39	0		170				

Study Period from 05-16-2008 to 05-16-2011

	Day Of Week		Ti	me Of Day (A	M)	Ti	me Of Day (Pl	N)
	# of Crashes	% of Total Crashes		# of Crashes	% of Total Crashes		# of Crashes	% of Total Crashes
Sunday	17	10.00%	00:00 - 00:59	3	1.76%	12:00 - 12:59	10	5.88%
Monday	27	15.88%	01:00 - 01:59	1	0.59%	13:00 - 13:59	8	4.71%
Tuesday	25	14.71%	02:00 - 02:59	0	0.00%	14:00 - 14:59	14	8.24%
Wednesday	27	15.88%	03:00 - 03:59	0	0.00%	15:00 - 15:59	12	7.06%
Thursday	21	12.35%	04:00 - 04:59	0	0.00%	16:00 - 16:59	13	7.65%
Friday	31	18.24%	05:00 - 05:59	0	0.00%	17:00 - 17:59	12	7.06%
Saturday	22	12.94%	06:00 - 06:59	1	0.59%	18:00 - 18:59	16	9.41%
Total	170		07:00 - 07:59	12	7.06%	19:00 - 19:59	8	4.71%
			08:00 - 08:59	3	1.76%	20:00 - 20:59	7	4.12%
			09:00 - 09:59	6	3.53%	21:00 - 21:59	14	8.24%
			10:00 - 10:59	9	5.29%	22:00 - 22:59	8	4.71%
			11:00 - 11:59	11	6.47%	23:00 - 23:59	2	1.18%
			Total	46		Total	124	
						Unknown Time	0	
Su	rface Conditio	ons	Lig	hting Condition	ons	We	ather Condition	ons
	# of Crashes	% of Total Crashes		# of Crashes	% of Total Crashes		# of Crashes	% of Total Crashes
Dry	129	75.88%	Daylight	112	65.88%	Clear	102	60.00%
Wet	39	22.94%	Dawn	1	0.59%	Cloudy	37	21.76%
Snow	0	0.00%	Dusk	3	1.76%	Fog, Smog,	0	0.00%
Ice/Frost	0	0.00%	Dark-Lighted	40	23.53%	Smoke		
Sand	0	0.00%	Dark-Not	12	7.06%	Rain	29	17.06%
Water (standing,mo [,]	0	0.00%	Lighted Dark-	0	0.00%	Sleet, Hail (freezing	2	1.18%
Slush	1	0.59%	Unknown			rain or drizzle)		
Oil	0	0.00%	Lighting	0	0.000/	Snow	0	0.00%
Mud, Dirt, Gravel	0	0.00%	Other Unknown	0	0.00% 1.18%	Blowing Snow	0	0.00%
Other	0	0.00%	Total	170		Severe	0	0.00%
Unknown	1	0.59%				Crosswinds	Ĵ	0.0070
Total	170					Blowing Sand, Soil, Dirt	0	0.00%
						Other	0	0.00%

Unknown

Total

1

171

0.59%

	First Harmful Event	
	# of Crashes	% of Total Crashes
Overturn/Rollover, Non-Collision	0	0.00%
Fire/Explosion, Non-Collision	0	0.00%
Immersion, Non-Collision	0	0.00%
Jackknife, Non-Collision	0	0.00%
Cargo/Equipment Loss or Shift, Non- Collision	0	0.00%
Fell/Jumped From Motor Vehicle, Non- Collision	0	0.00%
Thrown or Falling Object, Non-Collision	0	0.00%
Other Non-Collision, Non-Collision	1	0.59%
Pedestrian, Collision With Person, Motor Vehicle, or Non-Fixed Object	1	0.59%
Pedalcycle, Collision With Person, Motor Vehicle, or Non-Fixed Object	0	0.00%
Railway Vehicle (train, engine), Collision With Person, Motor Vehicle, or Non- Fixed Object	0	0.00%
Animal, Collision With Person, Motor Vehicle, or Non-Fixed Object	0	0.00%
Motor Vehicle in Transport, Collision With Person, Motor Vehicle, or Non-Fixed Object	160	94.12%
Legally Parked Motor Vehicle, Collision With Person, Motor Vehicle, or Non- Fixed Object	0	0.00%
Struck by Falling, Shifting Cargo or Anything Set in Motion by Motor Vehicle, Collision With Person, Motor Vehicle, or Non-Fixed Object	0	0.00%
Work Zone / Maintenance Equipment, Collision With Person, Motor Vehicle, or Non-Fixed Object	0	0.00%
Other Non-Fixed Object, Collision With Person, Motor Vehicle, or Non-Fixed Object	0	0.00%
Impact Attenuator/Crash Cushion, Collision With Fixed Object	0	0.00%
Bridge Overhead Structure, Collision With Fixed Object	0	0.00%
Bridge Pier or Support, Collision With Fixed Object	0	0.00%
Bridge Rail, Collision With Fixed Object	0	0.00%
Cable Barrier, Collision With Fixed Object	0	0.00%
Culvert, Collision With Fixed Object	0	0.00%
Curb, Collision With Fixed Object	0	0.00%
Ditch, Collision With Fixed Object	0	0.00%
Embankment, Collision With Fixed Object	1	0.59%

Guardrail Face, Collision With Fixed Object	0	0.00%
Guardrail End, Collision With Fixed Object	0	0.00%
Concrete Traffic Barrier, Collision With Fixed Object	0	0.00%
Other Traffic Barrier, Collision With Fixed Object	0	0.00%
Tree (standing), Collision With Fixed Object	1	0.59%
Utility Pole, Collision With Fixed Object	1	0.59%
Light Support, Collision With Fixed Object	0	0.00%
Traffic Sign Support, Collision With Fixed Object	1	0.59%
Overhead Sign Support, Collision With Fixed Object	0	0.00%
Traffic Signal Support, Collision With Fixed Object	0	0.00%
Fence, Collision With Fixed Object	0	0.00%
Mailbox, Collision With Fixed Object	0	0.00%
Other Post, Pole or Support, Collision With Fixed Object	0	0.00%
Other Fixed Object (wall, building, tunnel, etc.), Collision With Fixed Object	3	1.76%
Illegally Parked Motor Vehicle, Collision with person, vehicle, or object not fixed	0	0.00%
Stopped Motor Vehicle, Collision with person, vehicle, or object not fixed	0	0.00%
Unknown, Collision With Fixed Object	1	0.59%
Total	170	

	Primary Contributing Circumstance	
	# of Crashes	% of Total Crashes
Speeding	0	0.00%
Failed to yield right of way	3	1.76%
Passed Stop Sign	0	0.00%
Disregard Traffic Signal	6	3.53%
Wrong side or wrong way	0	0.00%
Improper passing	0	0.00%
Improper lane change	6	3.53%
Following too close	17	10.00%
Made improper turn	1	0.59%
Driving under the influence	2	1.18%
Driver inattention, distraction, or fatigue	24	14.12%
Driving in a careless or reckless manner	6	3.53%
Driving in an aggressive manner	0	0.00%
Improper backing	0	0.00%
Other improper driving	0	0.00%
Mechanical defects	0	0.00%
Animal in Roadway - Deer	0	0.00%
Animal in Roadway - Other Animal	0	0.00%
Other environmental circumstances - weather, glare	0	0.00%
Roadway circumstances - debris, holes, work zone	0	0.00%
Other	3	1.76%
Unknown	3	1.76%
Total	71	

	Driver Contributing Circumstance	
	# of Drivers	% of Total Drivers
No Contributing Action		0.00%
Failed to yield right of way		4.23%
Ran Red Light		0.00%
Ran Stop Sign		8.45%
Disregard other traffic sign		0.00%
Disregard other road markings		0.00%
Exceeded authorized speed limit		8.45%
Driving too fast for conditions		23.94%
Made an improper turn		1.41%
Improper backing		2.82%
Wrong side or wrong way		33.80%
Followed too closely		8.45%
Failure to keep in proper lane		0.00%
Ran off roadway		0.00%
Operating vehicle in erratic, reckless, careless, negligent or aggressive manner		0.00%
Swerving or avoiding due to wind, slippery surface, vehicle, object, non- motorist in roadway, etc.		0.00%
Over-correcting/over-steering		0.00%
Improper Passing		0.00%
Other Contributing Action		0.00%
Unknown		4.23%
Total		

N 17 1.07 3 0108063100 7/11/08 0940 6 0 N N 101 01 13 02 N 17 5.13 10.78 4 0108053867 6/14/08 2200 7 0 0 N 01 01 13 03 N 17 0.25 0.25 3 0108053867 6/14/08 2200 7 0 0 N 04 04 02 13 02 N 17 0.25 0.25 3 0108075603 8/14/08 1644 4 0 0 N 01 01 13 02 N 17 0.26 0.26 3 010807647 8/20/08 1514 4 0 0 N 04 01 01 13 02 N 17 0.52 0.52 3 010807361 8/20/08 1348 6 0 N 01	CTY	RD	MP	C-MP	DIR	COMP/HQ#	Date	Time	Day	Fat	Inj	AL	LC	WC	SC	FHE	PC	Class	MOI
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N 17 0.52 0.52 3 0108121053 12/31/08 1823 4 0 0 N 04 01 01 13 03 N 17 0.55 0.55 3 0108111586 12/2/08 1042 3 0 0 N 01 01 01 03 03 N 109230 0 0 5 0108100615 10/28/08 1700 3 0 0 N 01 01 01 03 02 N 17 0.24 0.24 3 0108095937 10/13/08 2120 2 0 0 N 04 01 01 13 03 2009 N 17 0.88 0.88 3 0109081102 9/11/09 0905 6 0 N 01 04 02 13 02 N 17 0.88 0.88 3 0109081102 9/11/09 0728 3 0 N 01 01 01 03 02	Ν	17	5.43	11.08	4	0108114179	12/10/08	1711	4	0	0	Ν	05	04	02	13		02	01
N 17 0.55 0.55 3 0108111586 12/2/08 1042 3 0 0 N 01 01 01 01 09 03 N 109230 0 0 5 0108100615 10/28/08 1700 3 0 0 N 01 01 01 02 13 02 N 17 0.24 0.24 3 0108095937 10/13/08 2120 2 0 0 N 04 01 01 01 03 03 2009 N 17 0.88 0.88 3 0109081102 9/11/09 0905 6 0 N 01 04 02 13 02 N 17 0.88 0.88 3 0109081102 9/11/09 0905 6 0 N 01 04 02 13 02 N 17 0.88 0.88 3 0109078015 9/1/09 0728 3 0 N 01 01 01 01 01	Ν	17			4								04	01				03	01
N 109230 0 0 5 0108100615 10/28/08 1700 3 0 0 N 01 04 02 13 02 N 17 0.24 0.24 3 0108095937 10/13/08 2120 2 0 0 N 04 01 01 13 03 2009 N 17 0.88 0.88 3 0109081102 9/11/09 0905 6 0 N 01 04 02 13 02 N 17 0.88 0.88 3 0109081102 9/11/09 0905 6 0 N 01 04 02 13 02 N 17 0.88 0.88 3 0109078015 9/1/09 0728 3 0 N 01 01 01 01 01 02 13 02 N 17 0.88 0.88 3 0109078015 9/1/09 <td>Ν</td> <td>17</td> <td></td> <td></td> <td>3</td> <td>0108121053</td> <td>12/31/08</td> <td>1823</td> <td>4</td> <td></td> <td></td> <td></td> <td>04</td> <td>01</td> <td>01</td> <td></td> <td></td> <td>03</td> <td>04</td>	Ν	17			3	0108121053	12/31/08	1823	4				04	01	01			03	04
N 17 0.24 0.24 3 0108095937 10/13/08 2120 2 0 0 N 04 01 01 13 03 2009 N 17 0.88 0.88 3 0109081102 9/11/09 0905 6 0 N 01 04 02 13 02 N 17 0.88 0.88 3 0109078015 9/1/09 0728 3 0 N 01 01 01 13 02 N 17 0.88 0.88 3 0109078015 9/1/09 0728 3 0 N 01 01 01 13 02	Ν	17	0.55	0.55	3	0108111586	12/2/08	1042	3	0	0	Ν	01	01	01	09		03	00
2009 N 17 0.88 0.88 3 0109081102 9/11/09 0905 6 0 N 01 04 02 13 02 N 17 0.88 0.88 3 0109078015 9/1/09 0728 3 0 N 01 01 01 13 02	Ν	109230	0	0	5						0	Ν	01	04	02			02	01
N 17 0.88 0.88 3 0109081102 9/11/09 0905 6 0 0 N 01 04 02 13 02 N 17 0.88 0.88 3 0109078015 9/1/09 0728 3 0 0 N 01 04 02 13 02	Ν	17	0.24	0.24	3	0108095937	10/13/08	2120	2	0	0	Ν	04	01	01	13		03	01
N 17 0.88 0.88 3 0109078015 9/1/09 0728 3 0 0 N 01 01 01 13 02	2009	•																	
	N	17	0.88	0.88	3	0109081102	9/11/09	0905	6	0	0	N	01	04	02	13		02	03
	N	17	0.88	0.88	3	0109078015	9/1/09	0728	3	0	0	N	01	01	01	13		02	01
N 17 5.65 11.3 4 0109069297 8/5/09 1857 4 0 0 N 01 01 13 02	N	17	5.65	11.3	4	0109069297	8/5/09	1857	4	0	0	N	01	01	01	13		02	01
N 17 4.86 10.51 4 0109069330 8/5/09 2053 4 0 0 N 04 02 01 13 02	Ν	17	4.86	10.51	4	0109069330	8/5/09	2053	4	0	0	Ν	04	02	01	13		02	04

CTY	RD	MP	C-MP	DIR	COMP/HQ#	Date	Time	Day	Fat	Inj	AL	LC	WC	SC	FHE	PC	Class	MOI
200	9																	
N	17	5.06	10.71	4	0109068121	8/2/09	1305	1	0	0	N	01	04	02	13		02	01
Ν	17	5.66	11.31	4	0109067093	7/30/09	1811	5	0	0	N	01	01	01	13		02	01
Ν	17	0.88	0.88	3	0109073536	8/18/09	1802	3	0	0	N	01	01	01	13		02	01
Ν	17	0.6	0.6	3	0109051829	6/14/09	1524	1	0	0	N	01	01	01	13		03	01
Ν	17	0.23	0.23	3	0109069766	8/7/09	1214	6	0	0	N	01	01	01	13		02	01
Ν	17	4.59	10.24	4	0109071339	8/11/09	2226	3	0	0	N	04	01	01	13		03	02
Ν	17	0.52	0.52	3	0109015149	2/22/09	1255	1	0	0	Ν	01	04	02	13		02	01
Ν	17	4.59	10.24	4	0109037884	5/5/09	1646	3	0	0	N	01	02	01	13		02	01
Ν	17	0.52	0.52	3	0109019873	3/9/09	1237	2	0	1	N	01	01	01	13		03	03
Ν	17	0.52	0.52	3	0109045204	5/26/09	1640	3	0	0	N	01	04	02	13		02	01
Ν	17	0.51	0.51	3	0109015136	2/22/09	1149	1	0	2	N	01	04	02	13		03	05
Ν	17	5.37	11.02	4	0109032812	4/20/09	0909	2	0	3	N	01	04	02	13		03	01
Ν	17	0.52	0.52	3	0109028687	4/6/09	1615	2	0	0	N	01	02	02	13		02	01
Ν	17	0.19	0.19	3	0109012668	2/13/09	2128	6	0	3	N	04	02	01	13		03	01
N	17	0.53	0.53	3	0109006219	1/22/09	2128	5	0	0	N	04	01	01	13		02	00
Ν	17	4.48	10.13	4	0109012576	2/13/09	1549	6	0	0	N	01	02	01	13		02	01
N	17	0.01	0.01	3	0109004489	1/17/09	0859	7	0	0	N	01	01	01	40		02	00
N	17	5.64	11.29	4	0109061086	7/11/09	2212	7	0	0	N	04	02	01	13		02	01
N	17	5.65	11.3	4	0109044507	5/24/09	1100	1	0	0	N	01	01	01	13		02	01
Ν	17	0.88	0.88	3	0109036592	5/1/09	1612	6	0	0	N	01	04	02	13		03	03
N	17	5.51	11.16	4	0109092311	10/17/09	1557	7	0	0	N	01	04	02	13		02	01
N	214	4.96	4.96	5	0109035629	4/28/09	1523	3	0	0	N	01	01	01	13		03	03
Ν	17	0.83	0.83	3	0109033383	4/21/09	1726	3	0	0	N	01	01	01	13		02	01
N	17	0.01	0.01	3	0109027052	4/1/09	2121	4	0	0	N	05	04	02	13		02	04
Ν	17	5.48	11.13	4	0109090658	10/11/09	2155	1	0	0	N	99	01	01	99		02	99
N	17	4.59	10.24	4	0109003612	1/14/09	0731	4	0	0	N	01	01	01	13		02	01
N	17	5.45	11.1	4	0109000446	1/2/09	2057	6	0	1	N	05	02	01	13		03	01
N	17	5.64	11.29	4	0109002056		1421	5	0	0	N	01	01	01	13		02	03
N	17	0.56	0.56	3	0109096686	10/31/09	1400	7	0	0	N	01	02	02	13		02	01
N	17	0.93	0.93	3	0109095510	10/27/09	1806	3	0	0	N	03	04	02	13		03	01
N	17	0.87	0.87	3	0109034252	4/24/09	1503	6	0	0	N	01	01	01	13		02	01
N	17	0.52	0.52	3	0109094647	10/24/09	2028	7	0	0	N	04	04	02	13		02	03
N	17	0.88	0.88	3	0109094479	10/24/09	1248	7	0	0	N	01	04	02	13		02	04
N	17	5.17	10.82	4	0109061473	7/13/09	0724	2	0	0	N	01	01	01	13		02	04
Ν	17	0.38	0.38	3	0109024670	3/25/09	1124	4	0	0	N	01	01	01	13		02	04
N	17	-	0.52	3	0109013608	2/17/09	0710	3	0	0	N	01	01	01	13		02	01
N	17		0.52	3	0109019394	3/7/09	1932	7	0	0	N	05	01	01	13		02	03
N	214		4.95	5	0109096321			6	0	0	N	01	01	01	13		02	01
N	17		0.52	3	0109043974		2112	6	0	0	N	04	01	01	13		02	01
N	17		11.29	4	0109030749		1826	2	0	0	N	01	02	01	13		02	01

CTY	RD	MP	C-MP	DIR	COMP/HQ#	Date	Time	Day	Fat	Inj	AL	LC	WC	SC	FHE	PC	Class	MOI
200	9																	
Ν	4	5.37	5.37	1	0109047782	6/2/09	2150	3	0	0	N	04	01	01	13		03	03
Ν	17	5.17	10.82	4	0109060024	7/8/09	1900	4	0	0	Ν	01	01	01	13		02	01
Ν	17	4.59	10.24	4	0109028355	4/5/09	1633	1	0	0	Ν	01	01	01	13		02	01
Ν	17	4.78	10.43	4	0109040507	5/13/09	1003	4	0	0	Ν	01	01	01	13		02	01
Ν	17	1.03	1.03	3	0109045234	5/26/09	1757	3	0	0	Ν	01	02	01	13		02	04
Ν	17	5.05	10.7	4	0109100677	11/13/09	1215	6	0	0	Ν	01	02	02	13		03	01
Ν	17	5.65	11.3	4	0109044268	5/23/09	1553	7	0	0	Ν	01	01	01	13		02	01
Ν	17	4.59	10.24	4	0109099410	11/9/09	1144	2	0	0	Ν	01	01	01	40		02	00
Ν	17	0.22	0.22	3	0109048468	6/4/09	2116	5	0	0	Ν	05	04	02	13		02	01
Ν	17	5.66	11.31	4	0109106647	12/2/09	2121	4	0	0	Ν	04	04	02	13		02	03
Ν	17	4.57	10.22	4	0109088509	10/5/09	1151	2	0	0	Ν	01	01	01	13		02	01
Ν	214	4.95	4.95	5	0109107995	12/7/09	1111	2	0	0	Ν	01	01	01	13		02	02
Ν	17	1.09	1.09	3	0109081722	9/12/09	2206	7	0	0	Ν	04	02	02	13		02	01
Ν	17	5.55	11.2	4	0109109884	12/12/09	1817	7	0	0	Ν	05	01	01	13		02	01
Ν	17	5.61	11.26	4	0109098239	11/5/09	1843	5	0	0	Ν	04	01	01	13		02	01
Ν	17	4.59	10.24	4	0109091255	10/14/09	0748	4	0	0	Ν	01	01	01	13		02	01
Ν	17	5.61	11.26	4	0109084133	9/20/09	2146	1	0	0	Y	05	01	01	08		02	01
Ν	17	5.42	11.07	4	0109103997	11/24/09	0819	3	0	0	Ν	01	04	02	13		02	01
Ν	00017	11.1			0109114266	12/24/09	1554	5	0	2	Ν	01	02 -	01	13	04	03	03
Ν	00214	4.96			0109115287	12/28/09	1339	2	0	0	Ν	01	01 -	01	13	11	02	01
Ν		-9,9			0109115392	12/28/09	1907	2	0	0	Ν	05	02 -	01	13	07	02	01
Ν	17	4.59	10.24	4	0109110494	12/14/09	2030	2	0	0	Y	04	01	01	13		02	01
201	0																	
Ν	00017	0.75			0110003707	1/14/10	1400	5	0	0	N	01	01 -	01	13	08	02	01
N	00017	10.8			0110003774	1/14/10	1813	5	0	0	N	04	01 - 01	01	13	88	02	07
Ν	00017	0.88			0110015039	2/20/10	2149	7	0	0	N	04	01 -	01	13	02	02	03
Ν	00017	10.8			0110004967	1/19/10	0754	3	0	0	N	01	01 -	01	13	12	02	01
N	00017	0.52			0110024807	3/25/10	1406	5	0	0	N	01	02 - 02	01	13	08	02	01
Ν	00017	0.2			0110016159	2/24/10	1903	4	0	3	N	04	01 -	01	13	08	03	01
Ν	00017	1.05	1.05	3	0110053556	6/18/10	0000	6	0	0	N	01	01 -	01	13	07	02	04
Ν	00017	5.47			0110016173	2/24/10	1900	4	0	0	N	04	01 -	01	13	99	02	01
Ν	00017	4.99			0110036160	4/29/10	1431	5	0	0	Ν	01	01 -	01	13	11	02	01
N	00017	0.87			0110037111	5/2/10	0001	1	0	2	Y	05	01 - 01	01	13	10	03	01
Ν	00017	4.79			0110018421	3/4/10	1311	5	0	2	N	01	01 -	01	13	02	03	03
Ν	00017	5.63	11.28	4	0110063946	7/18/10	1338	1	0	1	N	01	01 -	01	13	11	03	01
Ν	00017	4.58	10.23	4	0110082683	9/13/10	0710	2	0	0	N	01	02 -	01	13	11	02	01
Ν	00017	5.16	10.81	4	0110098046	10/27/10	1824	4	0	0	N	03	02 -	02	13	99	02	01
Ν		-9,9			0110000416	1/2/10	1643	7	0	0	N	05	02 -	01	13	11	02	01
Ν	00017	0.49	0.49	3	0110065019	7/21/10	1908	4	0	1	Ν	01	01 -	01	13	11	03	01

CTY	RD	MP	C-MP	DIR	COMP/HQ#	Date	Time	Day	Fat	Inj	AL	LC	WC	SC	FHE	PC	Class	MOI
201	0									-								
Ν	00017	5.17	10.82	4	0110104843	11/16/10	1613	3	0	0	N	01	04 -	02	31	12	02	88
Ν	00017	5.47	11.12	4	0110059545	7/5/10	1439	2	0	0	N	01	01 -	01	13	11	02	01
Ν	00017	5.05	10.70	4	0110098351	10/28/10	1653	5	0	0	N	01	01 -	01	13	08	02	01
Ν		-9,9			0110040647	5/12/10	0141	4	0	0	N	04	01 -	01	40	07	02	03
Ν	00017	5.46	11.11	4	0110076093	8/23/10	1257	2	0	0	N	01	02 -	01	13	08	02	01
Ν	00017	5.42			0110020750	3/12/10	0934	6	0	1	N	01	04 -	02	13	04	03	02
Ν	00004	5.37			0110001595	1/6/10	1800	4	0	0	N	04	01 -	01	13	11	02	01
Ν	00017	5.45	11.10	4	0110092453	10/11/10	0642	2	0	0	N	02	01 -	01	13	08	02	07
Ν	00004	5.37	5.37	1	0110117853	12/26/10	1017	1	0	0	N	01	01 -	01	13	07	02	04
Ν	00017	4.59			0110031395	4/14/10	1723	4	0	1	Y	01	01 -	01	13	10	03	01
Ν	00004	5.37	5.37	3	0110112259	12/10/10	1148	6	0	1	N	01	02 -	01	13	09	03	04
Ν	00017	4.41	10.06	4	0110041992	5/15/10	2305	7	0	2	N	04	01 -	01	13	11	03	01
Ν	00017	0.5	0.50	3	0110106707	11/22/10	1627	2	0	1	Ν	03	01 -	01	13	08	03	01
Ν	00017	5.33			0110013142	2/14/10	1633	1	0	0	Ν	01	01 -	07	13	08	02	01
Ν	00017	0.54	0.54	3	0110068114	7/30/10	1724	6	0	0	Ν	01	01 -	01	13	11	02	01
Ν	00017	0.52	0.52	3	0110068221	7/30/10	2321	6	0	0	Ν	04	01 -	01	13	08	02	01
Ν	00017	0.21	0.21	3	0110086648	9/24/10	1639	6	0	0	N	01	01 -	01	13	04	02	03
Ν	00004	5.37			0110013714	2/16/10	1452	3	0	1	Ν	01	02 -	02	26	07	03	02
Ν	00017	5.41	11.06	4	0110113585	12/14/10	0955	3	0	0	Ν	01	02 -	01	13	07	02	01
Ν	00017	5.1	10.75	4	0110101151	11/5/10	1449	6	0	0	N	01	01 -	01	13	88	02	01
Ν	00017	0.02	0.02	3	0110079326	9/2/10	1051	5	0	1	Ν	01	01 -	01	13	11	03	01
Ν	00017	4.5	10.15	4	0110101252	11/5/10	1854	6	0	0	Ν	05	01 -	01	13	11	02	01
Ν	00017	5.66	11.31	2	0110095544	10/20/10	1147	4	0	0	N	01	02 -	01	13	11	02	01
Ν	00017	5.65			0110014249	2/18/10	1306	5	0	0	Ν	01	01 -	01	13	04	02	02
Ν	00017	5.4	11.05	4	0110088504	9/30/10	0706	5	0	0	Ν	01	04 -	02	13	08	02	01
Ν	00017	5.45	11.10	4	0110109341		0739	4	0	0	Ν	01	04 -	02	13	12	02	01
Ν	00017	0.83	0.83	3	0110088737	9/30/10	1825	5	0	0	Ν	04	04 -	02	13	11	02	01
Ν	00004	5.37	5.37	1	0110114911	12/17/10	1223	6	0	0	Ν	01	01 -	01	13	99	02	01
Ν	00017	0.85	0.85	3	0110069709	8/4/10	1717	4	0	1	Ν	01	01 -	01	13	88	03	01
Ν	00017	4.56	10.21	4	0110109779	12/2/10	1517	5	0	0	Ν	01	02 -	01	13	08	02	01
Ν	00017	5.18	10.83	4	0110115337	12/18/10	1421	7	0	0	Ν	01	02 -	01	13	08	02	01
Ν	00017	5.17	10.82	4	0110070263	8/6/10	0901	6	0	0	Ν	01	01 -	01	13	08	02	01
Ν	00017	0.52	0.52	3	0110089941	10/3/10	1644	1	0	0	Ν	01	02 -	01	13	12	02	01
Ν	00004	5.37	5.37	1	0110070485	8/6/10	1918	6	0	0	Ν	04	01 -	01	13	11	02	01
Ν	00204	0	0.00	1	0110115946	12/20/10	1128	2	0	0	Ν	01	01 -	01	13	12	02	01
Ν	00004	5.37	5.37	1	0110070930	8/7/10	2132	7	0	0	Ν	04	01 -	01	13	11	02	01
Ν	00017	0.24	0.24	3	0110116447	12/21/10	1757	3	0	0	Ν	04	01 -	01	13	11	02	01
201	1																	
N	00017	5.1	10.75	4	0111000405	1/2/11	1510	1	0	0	N	01	05 -	02	13	11	02	01
	00017		0.01	3	0111036553		0000	7	0	0	N	04	01 -	01	34	02	02	88
	I			1			-			I	I	I	I	I	I	I	I	L]

CTY	RD	MP	C-MP	DIR	COMP/HQ#	Date	Time	Day	Fat	Inj	AL	LC	WC	SC	FHE	PC	Class	MOI
201	1																	
N	00017	4.79	10.44	4	0111022715	3/16/11	1035	4	0	0	N	01	02 - 04	02	13	11	02	01
Ν	00017	5.46	11.11	4	0111023072	3/17/11	1311	5	0	0	Ν	01	01 -	01	13	11	02	01

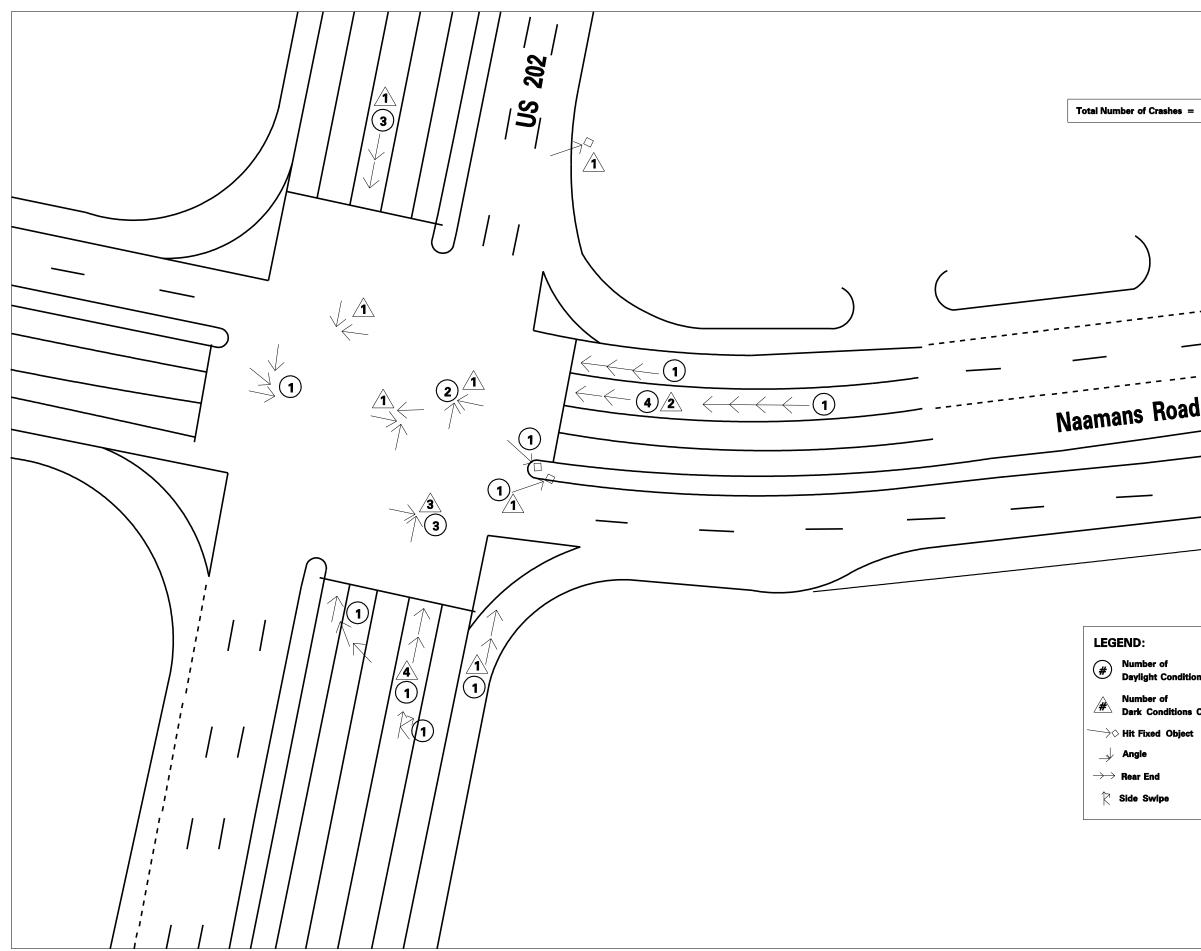
CTY	RD	MP	C-MP	DIR	COMP/HQ#	Date	Time	Day	Fat	Inj	AL	LC	WC	SC	FHE	PC	Class	MOI
201	1																	
Ν	00004	0.77	6.92	2	0111030389	4/11/11	0723	2	0	0	Ν	01	02 -	01	13	08	02	01
Ν	00017	0.19	0.19	3	0111023219	3/17/11	2009	5	0	0	Ν	04	01 -	01	13	08	02	01
Ν	00017	5.63	11.28	4	0111015542	2/20/11	1004	1	0	0	Ν	01	01 -	01	13	12	02	01
Ν	00017	5.46	11.11	4	0111038634	5/7/11	1229	7	0	0	Ν	01	01 -	01	13	11	02	01
Ν		-9,9			0111023635	3/18/11	2235	6	0	0	Ν	04	01 -	01	13	11	02	04
Ν	00017	5.21	10.86	4	0111031721	4/15/11	1416	6	0	0	Ν	01	01 -	01	13	08	02	01
Ν	00017	0.85	0.85	3	0111024715	3/22/11	1823	3	0	0	Ν	01	02 -	01	13	08	02	01
Ν	00004	5.37	5.37	1	0111041487	5/16/11	1359	2	0	0	Ν	01	02 -	01	13	04	02	03
Ν	00017	0.82	0.82	3	0111004916	1/17/11	1718	2	0	0	Ν	04	01 -	01	13	11	02	01
Ν	00017	5.65	11.30	1	0111018771	3/2/11	1824	4	0	0	Ν	04	01 -	01	13	04	02	03
Ν	00017	5.21	10.86	4	0111035799	4/28/11	1714	5	0	0	Ν	01	02 -	01	13	11	02	01

Report generated by tdtsswn at 2011-05-24 06:47:04.832

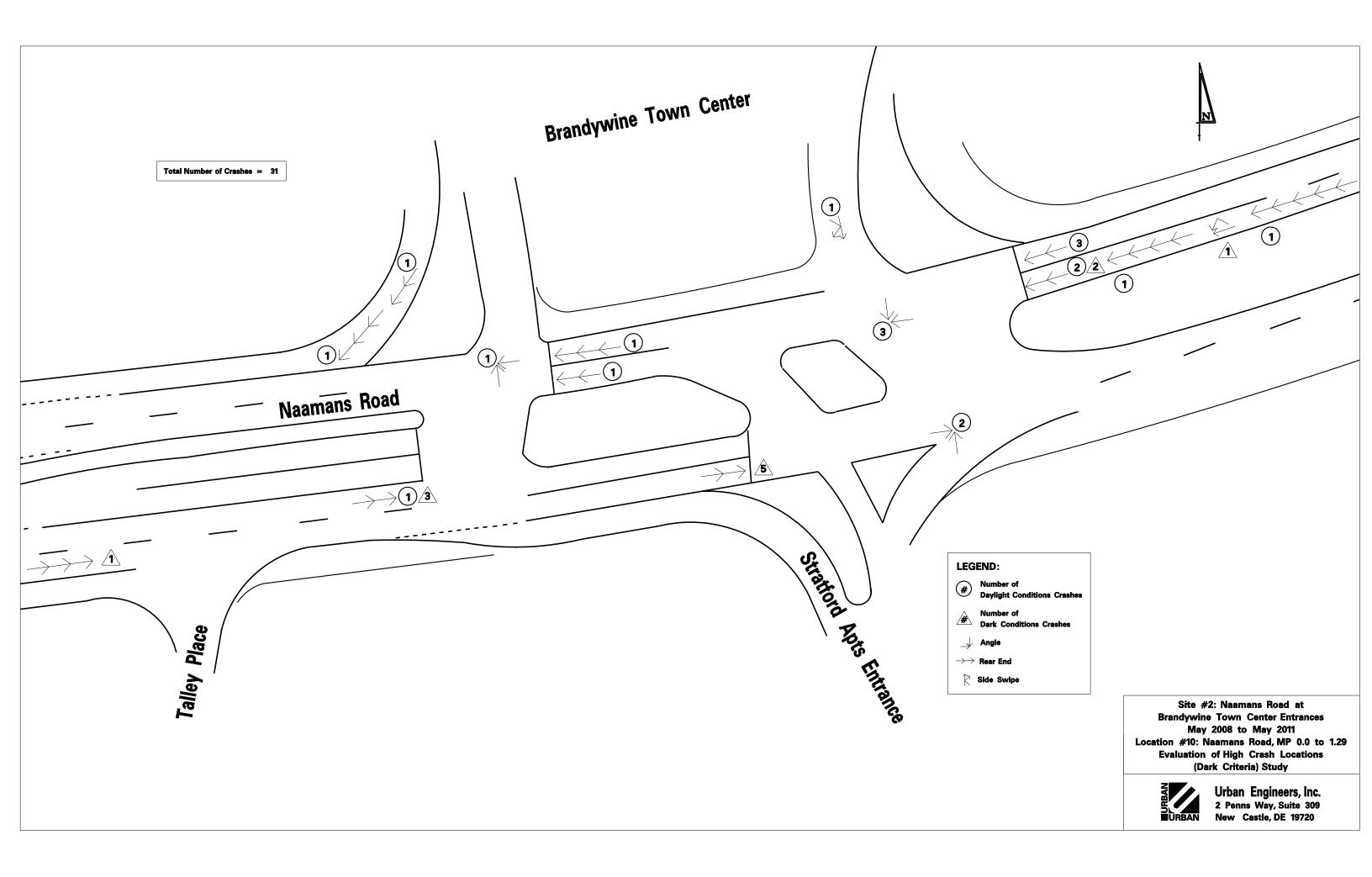
Report Legend Cty - County Rd - Maintenance Road MP - Milepoint C-MP - Continuous Milepoint DIr - Direction of Highway COMP/HQ# - Complaint Number/Headquarters Number DAY - Day Of Week Code Fat - Fatality Inj - Injury AL - Alcohol Involved LC - Lighting Condition WC - Weather Condition SC - Surface Condition MHE - Most Harmful Event PC - Primary Contributing Circumstance Class - Report Classification MOI - Manner of Impact

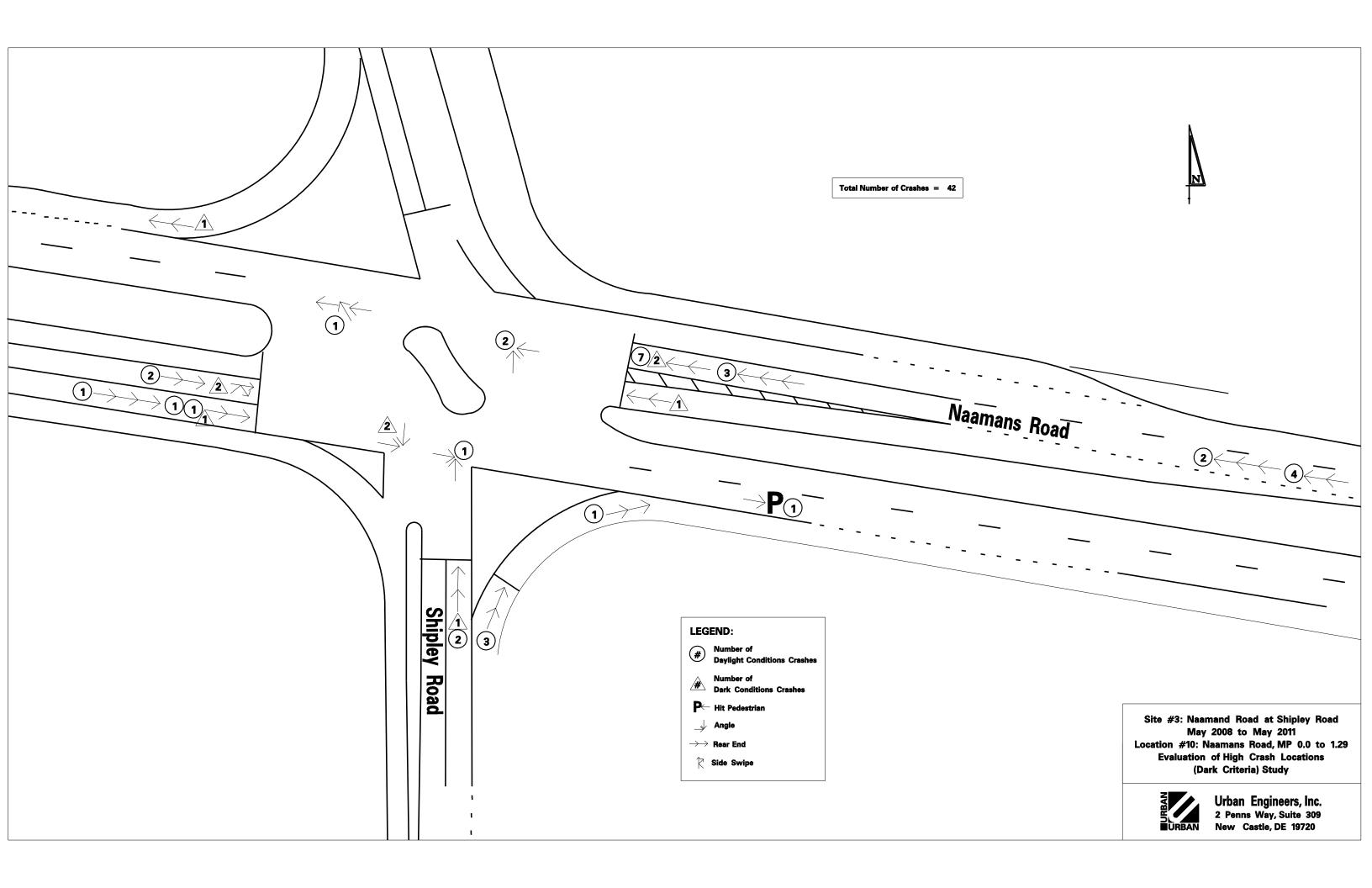
APPENDIX B: Crash Diagrams

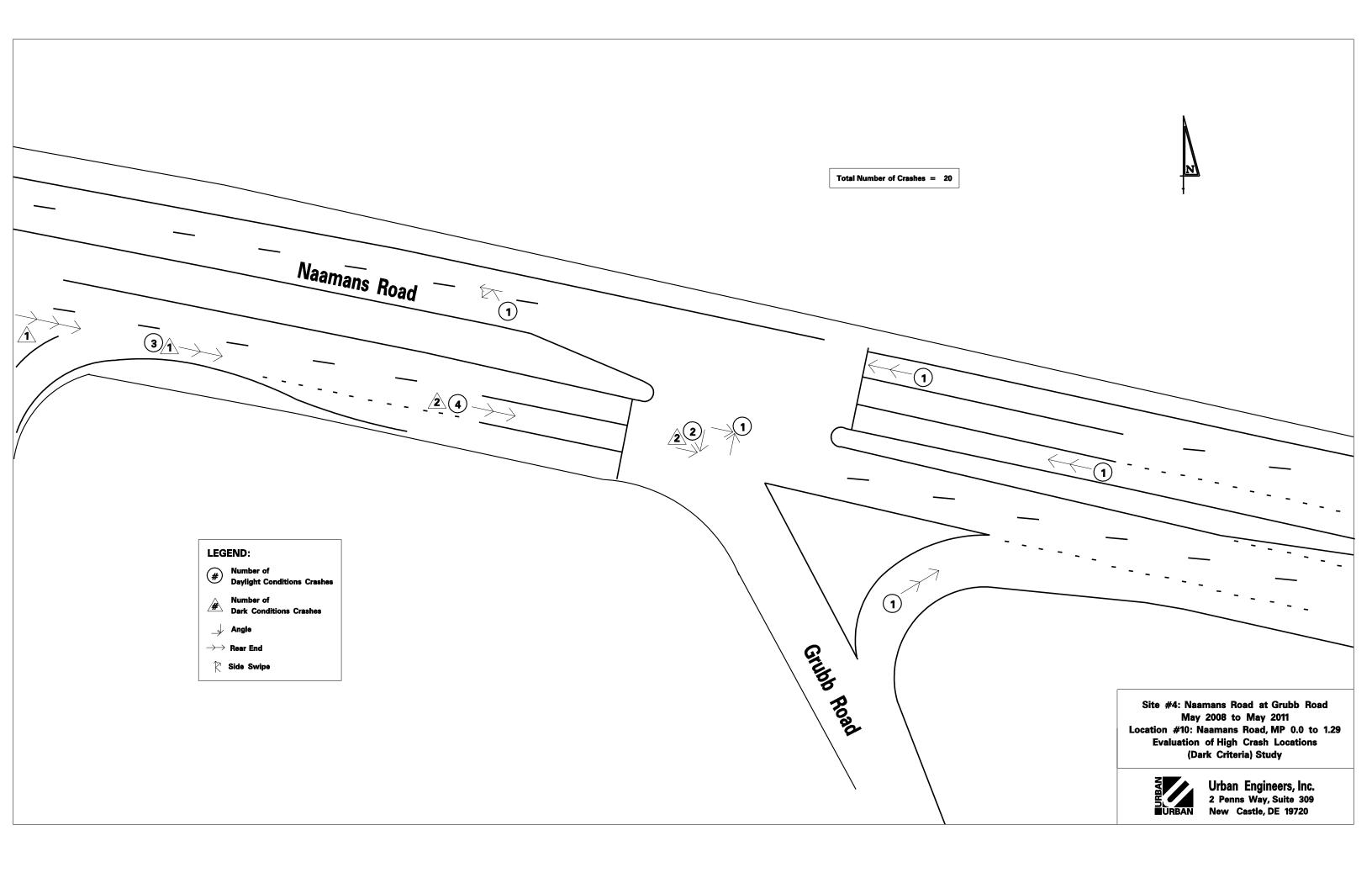
Site #1: SR 92 @ US 202 (Concord Pike) Intersection (M.P. 0) Site #2: SR 92 @ Stratford Apartments Entrance/Brandywine Town Center Entrances Intersection (M.P. 0.26) Site #3: SR 92 @ Shipley Road Intersection (M.P. 0.52) Site #4: SR 92 @ Grubb Road Intersection (M.P. 0.89)



40	
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ons Crashes Crashes	
	Site #1: Naamans Road at US 202 May 2008 to May 2011 Location #10: Naamans Road, MP 0.0 to 1.29 Evaluation of High Crash Locations (Dark Criteria) Study
	Urban Engineers, Inc. 2 Penns Way, Suite 309 URBAN New Castle, DE 19720







APPENDIX C: Previous Study

2004 HSIP – Site M Report



INTRODUCTION

Site M is a 1.49-mile corridor located north of Wilmington along SR 92/Naamans Road (N17) from U.S. 202/Concord Pike to 0.01-mile east of Brandywood Drive. Naamans Road is a four-lane, divided, closed-section roadway with shoulders. The posted speed limit is 45 miles per hour east of Shipley Road and 40 miles per hour west of Shipley Road. The ADT is approximately 27,100. Within the limits of the site, there are the following signalized and unsignalized intersections:

Signalized

- U.S. 202/Concord Pike
- Brandywine Town Center (English-Tee)
- Shipley Road
- Grubb Road
- Ebright Road

Unsignalized

- Brandywood Drive
- Channin Drive
- Dartmouth Woods Road
- Cinder Road
- Ross Road
- Talley Place
- Perry Place

ACCIDENT DATA SUMMARIES

A total of 107 accidents was reported during the three-year study period between January 2000 and December 2002 including 62 (58 percent) rear end accidents and 34 (32 percent) angle accidents. At the SR 92/Naamans Road and Grubb Road intersection several eastbound drivers complained that sun glare restricted their view of the traffic signal. The following is a summary of the accidents by location and type:

- Shipley Road 26 accidents
 - 8 westbound rear end accidents
 - o 6 eastbound rear end accidents
 - 2 westbound/southbound angle accidents
 - 2 southbound right-turn rear end accidents
 - o 1 eastbound/southbound angle accident
 - o 1 eastbound/northbound angle accident
- Grubb Road 20 accidents
 - 6 eastbound/northbound angle accidents (4 caused by sun glare)
 - o 5 eastbound rear end accidents
 - o 4 westbound rear end accidents
 - o 3 westbound left-turn accidents
- U.S. 202 (east leg) 19 accidents
 - o 9 westbound rear end accidents
 - o 4 eastbound rear end accidents

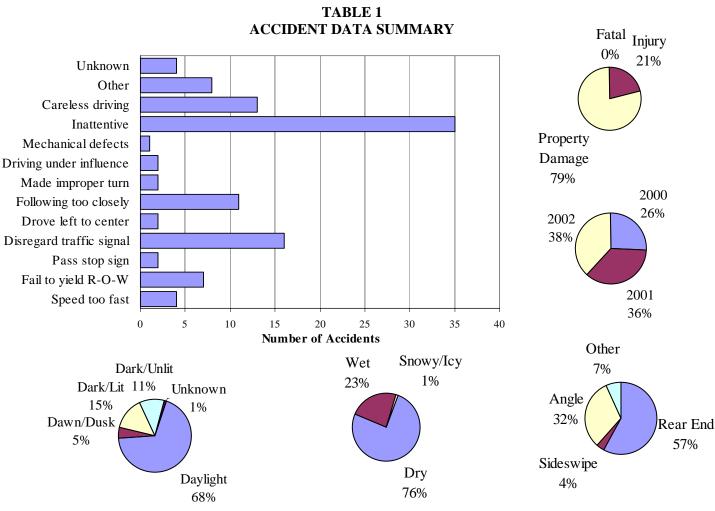
- Brandywine Town Center 14 accidents
 - o 5 eastbound rear end accidents
 - o 2 westbound rear end accidents
 - 3 westbound/southbound angle accidents
 - o 2 eastbound left-turn accidents
- Ebright Road 13 accidents
 - o 5 westbound rear end accidents
 - 2 eastbound rear end accidents
 - o 2 eastbound sideswipe accidents
 - o 1 eastbound left-turn accident
- Perry Place 3 accidents
- Dartmouth Woods Road 2 accidents
- Brandywood Drive 2 accidents

A categorical summary of the accidents by type, severity, surface condition, lighting condition, year, and primary cause is shown in Table 1.

Whitman, Requardt and Associates



Site M



- FIELD OBSERVATIONS
- Street lighting is provided on Naamans Road east of Grubb Road, at Shipley Road, and west of Shipley Road.

Naamans Road/Shipley Road

- This intersection operates with protected left-turn phasing on the eastbound and westbound approaches. Northbound and southbound Shipley Road/Brandywine Shopping Center operate concurrently with turning movements restricted to left-turns and right-turns only.
- The eastbound and the westbound approaches include a left-turn lane, two thru lanes and a right-turn lane. The northbound and southbound approaches include two left-turn lanes and a channelized right-turn lane. The eastbound left-turn into the Brandywine Shopping Center is prohibited, but u-turns are permitted. A "No Left-turn" sign is mounted in conjunction with a "U-turn Lane" sign and a directional route marker for "U.S. 202" on the eastbound approach.
- There is a two-stage signalized pedestrian crossing diagonally spanning the intersection as well as a signalized pedestrian crossing on the north and south legs. Activated by pushbuttons, the pedestrian



"WALK" indications only allow enough time to get to the center island where pedestrians must wait for the next northbound/southbound green cycle to complete the crossing.

- During the PM peak, the eastbound platoons consistently arrived on the red signal indication.
- While all sight distance criteria are met, the eastbound sight distance is slightly restricted by a horizontal curve.
- There is a bus stop located on the nearside of the intersection on the westbound Naamans Road.

Naamans Road/Grubb Road

- This three-legged intersection includes two thru lanes and a right-turn lane on the eastbound approach and two thru lanes and a left-turn lane on the westbound approach. The northbound approach has a left-turn lane and a channelized right turn lane. This intersection operates with protected/permissive left-turn phasing (lag left) on the westbound approach.
- Pedestrian cross walks are located on the south and the east legs of the intersection
- Street lighting is located on the southeast corner and the north side of the intersection.
- Brandywine Hunt, a single-family home subdivision (up to 102 luxury homes), is planned between Grubb Road and Shipley Road along the northern side of Naamans Road.
- During both peak hours, northbound left-turning vehicles reach a maximum queue of six cars. During the PM peak, heavy eastbound/westbound traffic makes it difficult for northbound right-turning vehicles to make their turn on red.
- Signal detectors seem to be working well and the eastbound/westbound queues consistently clear the intersection during the clearance interval. Platoons generally arrive on the green signal indication.

Naamans Road/U.S. 202

• The westbound Naamans Road approach to U.S. 202 includes two left-turn lanes, two thru lanes, and a right-turn lane. All four approaches to the intersection operate with protected left-turn phasing.

Naamans Road/Brandywine Shopping Center

- The western entrances into the Brandywine Shopping Center operate as an "English Tee" intersection with the west most driveway serving southbound right-turns and eastbound left-turns while the eastern driveway prohibits eastbound left-turns from entering the shopping center. The eastern intersection also serves the Stratford Apartments on the south leg. The two intersections operate simultaneously with protected eastbound left-turns at the west most driveway and concurrent northbound and southbound left-turns at the eastern intersection. Westbound left-turns into the Stratford Apartments are prohibited.
- There is a two-stage signalized pedestrian crossing diagonally spanning the eastern intersection as well as a signalized pedestrian crossing on the north and south legs. While pushbuttons are provided, the



pedestrian "WALK" indications operate with the northbound and southbound left-turn phase each cycle.

• No advanced signal warnings are provided on eastbound or westbound Naamans Road as drivers approach this intersection.

Naamans Road/Ebright Road

- This intersection is located on a vertical crest. The eastbound approach to this intersection includes two left-turn lanes and two thru lanes. The westbound approach includes a U-turn lane, two thru lanes and a right-turn lane. The eastbound and westbound approaches operate with a protected left-turn phase.
- During the PM peak high eastbound left-turning volumes were observed.

REMEDIAL IMPROVEMENTS

• Install a pedestal mounted signal indication within the concrete island located on the southeast corner of the intersection for eastbound Naamans Road at Grubb Road.

ADDITIONAL STUDIES

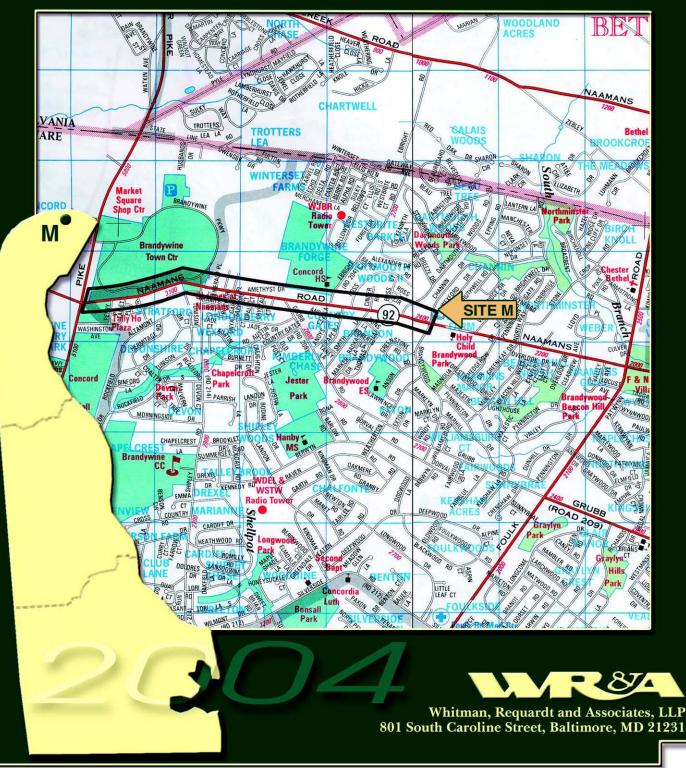
The HSIP committee recommends no additional studies.

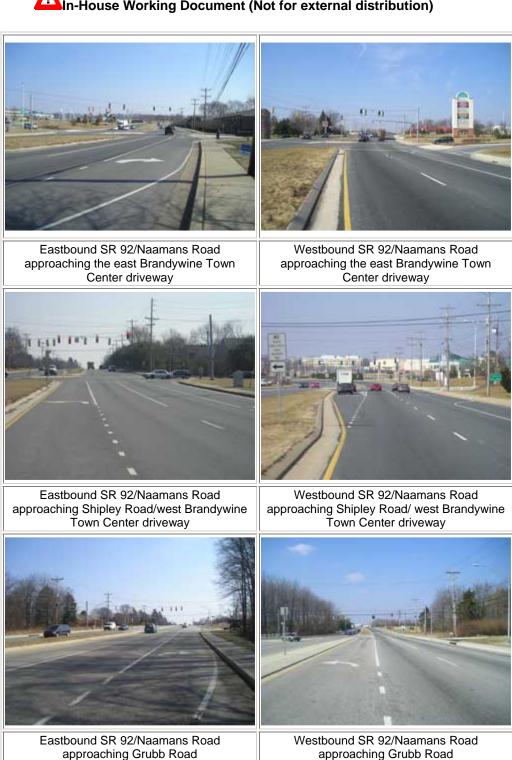
TOTAL COST OF REMEDIAL IMPROVEMENTS - \$10,000

2004 Highway Safety Improvement Program - SITE M

N17 (SR 92/Naamans Road) - MP 0.00 - 1.49 From US 202/Concord Pike to 0.01 miles east of Brandywood Drive







In-House Working Document (Not for external distribution)

APPENDIX D: Statewide 1.0 Mile Corridors Ranked by Critical Ratio

Accident Date Range 01/01/2007 - 12/31/2009 Interval Length
1.0 mile

Rank	Crit. Ratio	County	Road	Road Name	Beg MP	End MP	# Accs	Notes
1	10.12	1	355D	Harmony Road	0	0.05	1	<10 accidents - Did not meet criteria
2	5.93	1	34H	US 13	0	0.1	1	<10 accidents - Did not meet criteria
3	4.48	1	367	Welsh Tract Road	0	0.99	19	Location #1
4	4.48	1	367	Welsh Tract Road	0.1	1.09	19	Location #1
5	4.01	1	367	Welsh Tract Road	0.2	1.19	17	Location #1
6	4.01	1	367	Welsh Tract Road	0.3	1.29	17	Location #1
7	3.78	1	367	Welsh Tract Road	0.4	1.39	16	Location #1
8	3.76	1	367	Welsh Tract Road	0.5	1.49	16	Location #1
9	3.7	3	199	Fowlers Beach Road	1.2	2.15	4	<10 accidents - Did not meet criteria
10	3.6	1	11A	Delaware Park Road	0	0.15	4	<10 accidents - Did not meet criteria
11	3.56	3	246	Albury Avenue	0.9	1.89	7	<10 accidents - Did not meet criteria
12	3.55	3	199	Fowlers Beach Road	1.1	2.09	4	<10 accidents - Did not meet criteria
13	3.51	3	396	i emere Deden Hodd	1.8	2.79	6	<10 accidents - Did not meet criteria
14	3.51	3	396		1.9	2.89	6	<10 accidents - Did not meet criteria
15	3.46	2	14	SR 42	3	3.91	5	<10 accidents - Did not meet criteria
16	3.43	1	31A	Old Limestone Road	0	0.31	1	<10 accidents - Did not meet criteria
10	3.43	3	14C	Old Limestone Road	0	0.31	1	<10 accidents - Did not meet criteria
17	3.43	3	60	SR 54	3.1	4.09	7	<10 accidents - Did not meet criteria
10	3.27	3	60	SR 54	3.1	4.09	7	
								<10 accidents - Did not meet criteria
20	3.27	3	60	SR 54	3.3	4.29	7	<10 accidents - Did not meet criteria
21	3.25	1	38	St. Andrews School Road	0	0.99	7	<10 accidents - Did not meet criteria
22	3.23	2	429	Mechanic Street	3.1	4.09	6	<10 accidents - Did not meet criteria
23	3.23	2	429	Mechanic Street	3.2	4.19	6	<10 accidents - Did not meet criteria
24	3.23	2	429	Mechanic Street	3.3	4.29	6	<10 accidents - Did not meet criteria
25	3.18	1	429	Mechanic Street	3.8	4.79	7	<10 accidents - Did not meet criteria
26	3.14	2	14	SR 42	2.9	3.89	5	<10 accidents - Did not meet criteria
27	3.09	2	14	SR 42	2.8	3.79	5	<10 accidents - Did not meet criteria
28	3.05	2	14	SR 42	2.7	3.69	5	<10 accidents - Did not meet criteria
29	3.05	3	246	Albury Avenue	1	1.99	6	<10 accidents - Did not meet criteria
30	3.04	2	14	SR 42	2.6	3.59	5	<10 accidents - Did not meet criteria
31	3.02	1	367	Welsh Tract Road	0.6	1.59	13	Location #1
32	3.02	3	396		2.2	3.16	5	<10 accidents - Did not meet criteria
33	3	3	542A		0	0.18	1	<10 accidents - Did not meet criteria
34	2.93	3	396		2	2.99	5	<10 accidents - Did not meet criteria
35	2.93	3	396		2.1	3.09	5	<10 accidents - Did not meet criteria
36	2.83	1	355B		0	0.26	1	<10 accidents - Did not meet criteria
37	2.83	3	361	West Avenue	2.3	3.29	8	<10 accidents - Did not meet criteria
38	2.81	1	12A	Farrand Drive Ext.	0	0.1	2	<10 accidents - Did not meet criteria
39	2.8	3	60	SR 54	4.8	5.79	6	<10 accidents - Did not meet criteria
40	2.8	3	60	SR 54	4.9	5.89	6	<10 accidents - Did not meet criteria
41	2.8	3	60	SR 54	5	5.99	6	<10 accidents - Did not meet criteria
42	2.79	3	361	West Avenue	2.2	3.19	8	<10 accidents - Did not meet criteria
43	2.78	3	361	West Avenue	2.1	3.09	8	<10 accidents - Did not meet criteria
44	2.75	3	261		1.1	2.09	8	<10 accidents - Did not meet criteria
45	2.71	1	429	Mechanic Street	3.7	4.69	6	<10 accidents - Did not meet criteria
46	2.71	3	544		0.2	1.19	6	<10 accidents - Did not meet criteria
47	2.69	1	224	Upper Snuffmill Road	0	0.95	6	<10 accidents - Did not meet criteria
48	2.69	1	429	Mechanic Street	3.6	4.59	6	<10 accidents - Did not meet criteria
49	2.69	2	429	Mechanic Street	2.8	3.79	5	<10 accidents - Did not meet criteria
50	2.69	2	429	Mechanic Street	2.9	3.89	5	<10 accidents - Did not meet criteria
51	2.69	2	429	Mechanic Street	3	3.99	5	<10 accidents - Did not meet criteria
52	2.66	3	199	Fowlers Beach Road	0.8	1.79	3	<10 accidents - Did not meet criteria
53	2.66	3	199	Fowlers Beach Road	0.0	1.75	3	<10 accidents - Did not meet criteria
53	2.66	3	199	Fowlers Beach Road	0.9	1.09	3	<10 accidents - Did not meet criteria
55	2.65	3	315A	I UWIEIS DEAUII NUAU	0	0.08	1	<10 accidents - Did not meet criteria
56	2.65	3	261		1.2	2.19	7	<10 accidents - Did not meet criteria
-				St. Jamoa Church Dag				
57	2.58	1	318A	St. James Church Road	0	0.24	1	<10 accidents - Did not meet criteria
58	2.58	3	246		0.5	1.49	5	<10 accidents - Did not meet criteria
59	2.58	3	544	All	0.1	1.09	6	<10 accidents - Did not meet criteria
60	2.56	3	246	Albury Avenue	0.6	1.59	5	<10 accidents - Did not meet criteria
61	2.55	2	127		0	0.41	1	<10 accidents - Did not meet criteria
62	2.55	3	246	Albury Avenue	0.7	1.69	5	<10 accidents - Did not meet criteria
63	2.55	3	246	Albury Avenue	0.8	1.79	5	<10 accidents - Did not meet criteria
64	2.55	3	246	Albury Avenue	1.1	2.09	5	<10 accidents - Did not meet criteria

Accident Date Range 01/01/2007 - 12/31/2009 Interval Length
1.0 mile

66 2.51 3 28 US 9 6 6.99 14 Locati 67 2.5 2 295 0 0.99 3 <10 a 68 2.5 2 295 0.1 1.09 3 <10 a 69 2.46 3 361 West Avenue 1.9 2.89 8 <10 a 70 2.44 2 88 0.2 1.19 4 <10 a 71 2.43 2 14 SR 42 2.4 3.39 4 <10 a	accidents - Did not meet criteria ion #2 accidents - Did not meet criteria accidents - Did not meet criteria
66 2.51 3 28 US 9 6 6.99 14 Locati 67 2.5 2 295 0 0.99 3 <10 a	tion #2 accidents - Did not meet criteria
67 2.5 2 295 0 0.99 3 <10 a 68 2.5 2 295 0.1 1.09 3 <10 a	accidents - Did not meet criteria
68 2.5 2 295 0.1 1.09 3 <10 a 69 2.46 3 361 West Avenue 1.9 2.89 8 <10 a	
69 2.46 3 361 West Avenue 1.9 2.89 8 <10 a 70 2.44 2 88 0.2 1.19 4 <10 a	
70 2.44 2 88 0.2 1.19 4 <10 a 71 2.43 2 14 SR 42 2.4 3.39 4 <10 a	accidents - Did not meet criteria
71 2.43 2 14 SR 42 2.4 3.39 4 <10 a	accidents - Did not meet criteria
	accidents - Did not meet criteria
72 2.43 2 14 SR 42 2.5 3.49 4 <10 a	accidents - Did not meet criteria
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	accidents - Did not meet criteria
	accidents - Did not meet criteria
	accidents - Did not meet criteria
128 2.13 3 353 2.4 3.39 3 <10 a	accidents - Did not meet criteria

Accident Date Range 01/01/2007 - 12/31/2009 Interval Length 1.0 mile

Rank	Crit. Ratio	County	Road	Road Name	Beg MP	End MP	# Accs	Notes
129	2.12	2	8	US 113	9.6	10.59	13	Location #5
130	2.12	3	24	SR 24	18.2	19.19	7	<10 accidents - Did not meet criteria
131	2.12	3	24	SR 24	18.4	19.39	7	<10 accidents - Did not meet criteria
132	2.12	3	24	SR 24	18.5	19.49	7	<10 accidents - Did not meet criteria
133	2.11	3	246	Albury Avenue	0.3	1.29	4	<10 accidents - Did not meet criteria
134	2.11	3	261		1.3	2.29	5	<10 accidents - Did not meet criteria
135	2.11	3	353		2.1	3.09	3	<10 accidents - Did not meet criteria
136	2.11	3	477		0	0.99	3	<10 accidents - Did not meet criteria
137	2.1	1	26	Old Baltimore Pike	2.5	3.49	21	Location #6
138	2.1	3	48		7.2	8.19	7	<10 accidents - Did not meet criteria
139	2.1	3	48		7.3	8.29	7	<10 accidents - Did not meet criteria
140	2.1	3	48		7.4	8.39	7	<10 accidents - Did not meet criteria
141	2.1	3	48		7.5	8.49	7	<10 accidents - Did not meet criteria
142	2.1	3	48		7.6	8.59	7	<10 accidents - Did not meet criteria
143	2.1	3	48		7.7	8.69	7	<10 accidents - Did not meet criteria
144	2.1	3	48		7.8	8.79	7	<10 accidents - Did not meet criteria
145	2.1	3	48		7.9	8.89	7	<10 accidents - Did not meet criteria
146	2.1	3	48		8	8.99	7	<10 accidents - Did not meet criteria
147	2.09	2	30	Main Street	0.7	1.69	7	<10 accidents - Did not meet criteria
148	2.09	3	246	Albury Avenue	0.4	1.39	4	<10 accidents - Did not meet criteria
149	2.09	3	28	US 9	8.9	9.89	12	Location #4
150	2.07	3	246	Albury Avenue	1.8	2.7	3	<10 accidents - Did not meet criteria
151	2.07	3	326	State Street	0.8	1.79	8	<10 accidents - Did not meet criteria
152	2.06	2	188		0	0.32	1	<10 accidents - Did not meet criteria
153	2.06	3	353		2	2.99	3	<10 accidents - Did not meet criteria
154	2.06	3	353		2.5	3.49	3	<10 accidents - Did not meet criteria
155	2.05	1	26	Old Baltimore Pike	2.8	3.79	21	Location #6
156	2.05	3	594		0	0.99	6	<10 accidents - Did not meet criteria
157	2.04	2	30	Main Street	0.4	1.39	7	<10 accidents - Did not meet criteria
158	2.04	3	246		1.2	2.19	4	<10 accidents - Did not meet criteria
159	2.04	3	28	US 9	9	9.99	12	Location #4
160	2.04	3	544		0.4	1.39	4	<10 accidents - Did not meet criteria
161	2.03	2	303		1.2	2.19	2	<10 accidents - Did not meet criteria
162	2.02	1	301	Thompson's Station Road	0.3	1.29	9	<10 accidents - Did not meet criteria
163	2.02	1	301	Thompson's Station Road	0.4	1.39	9	<10 accidents - Did not meet criteria
164	2.02	2	54	Main Street	0.1	1.09	6	<10 accidents - Did not meet criteria
165	2.02	2	54	Main Street	0.2	1.19	6	<10 accidents - Did not meet criteria
166	2.02	2	54	Main Street	0.3	1.29	6	<10 accidents - Did not meet criteria
167	2.02	2	54	Main Street	0.4	1.39	6	<10 accidents - Did not meet criteria
168	2.02	2	54	Main Street	0.5	1.49	6	<10 accidents - Did not meet criteria
169	2.01	3	28	US 9	5.8	6.79	11	Location #4
170	2.01	3	488		2.8	3.79	4	<10 accidents - Did not meet criteria
171	2.01	3	488		2.9	3.89	4	<10 accidents - Did not meet criteria
172	2	1	82	SR 1	5.6	6.59	12	Location #3
173	2	1	9	SR 52	3.2	4.19	16	Location #7
174 175	2	2	<u>8</u> 261	US 113	9.7 1.8	10.69 2.79	12 7	Location #5
	1.99	3	361		1.8		2	<10 accidents - Did not meet criteria
176	1.99		479A	Old Baltimore Pike		0.6		<10 accidents - Did not meet criteria
177	1.98	1 1	26 26		2.6 2.9	3.59 3.89	20	Location #6
178	1.98			Old Baltimore Pike		4.09	20	Location #6
179 180	1.98	1	9 325	SR 52 Big Oak Boad	3.1	2.39	<u>16</u>	Location #7
180	1.98	2	325	Big Oak Road	1.4		4	<10 accidents - Did not meet criteria <10 accidents - Did not meet criteria
181 182	1.98 1.98	2 3	73 207	North Street	4.3	5.29 2.29	7	
182	1.98	3	353		1.3 1.9	2.29	3	<10 accidents - Did not meet criteria <10 accidents - Did not meet criteria
184	1.98	3	544		1.9	2.89	2	
185	1.98 1.97	3 1	26	Old Baltimore Pike	2.7	1.99 3.69	2 20	<10 accidents - Did not meet criteria
186	1.97	2	30	Main Street	1.4	2.39	8	<10 accidents - Did not meet criteria
187	1.97	2	30 2	US 13	1.4 3.6	2.39 4.59	。 18	Location #8
188	1.97	1	383	Church Road	0.4	<u>4.59</u> 1.37	8	<10 accidents - Did not meet criteria
189	1.96	2	303	Main Street	0.4	1.37	0 7	<10 accidents - Did not meet criteria
189	1.96			IVIAILI SLIEEL	0.3	4.09	6	<10 accidents - Did not meet criteria <10 accidents - Did not meet criteria
190	1.96	2 3	384 16	SR 16	25.8	26.79	5	<10 accidents - Did not meet criteria <10 accidents - Did not meet criteria
191	1.96	3	16	SR 16	25.8	26.79	5	<10 accidents - Did not meet criteria
192	1.90	ა	10	01110	20.9	20.09	5	

Accident Date Range 01/01/2007 - 12/31/2009 Interval Length
1.0 mile

Rank	Crit. Ratio	County	Road	Road Name	Beg MP	End MP	# Accs	Notes
193	1.96	3	16	SR 16	26	26.99	5	<10 accidents - Did not meet criteria
194	1.96	3	16	SR 16	26.1	27.09	5	<10 accidents - Did not meet criteria
195	1.96	3	353		2.6	3.59	3	<10 accidents - Did not meet criteria
196	1.95	2	73	North Street	4.2	5.19	7	<10 accidents - Did not meet criteria
197	1.95	3	326	State Street	0.7	1.69	8	<10 accidents - Did not meet criteria
198	1.94	1	32	US 40	4.2	5.19	25	Location #9
199	1.94	2	73	North Street	4.4	5.39	7	<10 accidents - Did not meet criteria
200	1.94	3	213	Walnut Street	8.1	9.09	5	<10 accidents - Did not meet criteria
201	1.94	3	484		2.7	3.69	4	<10 accidents - Did not meet criteria
202	1.92	1	17	SR 92	0	0.99	17	Location #10