



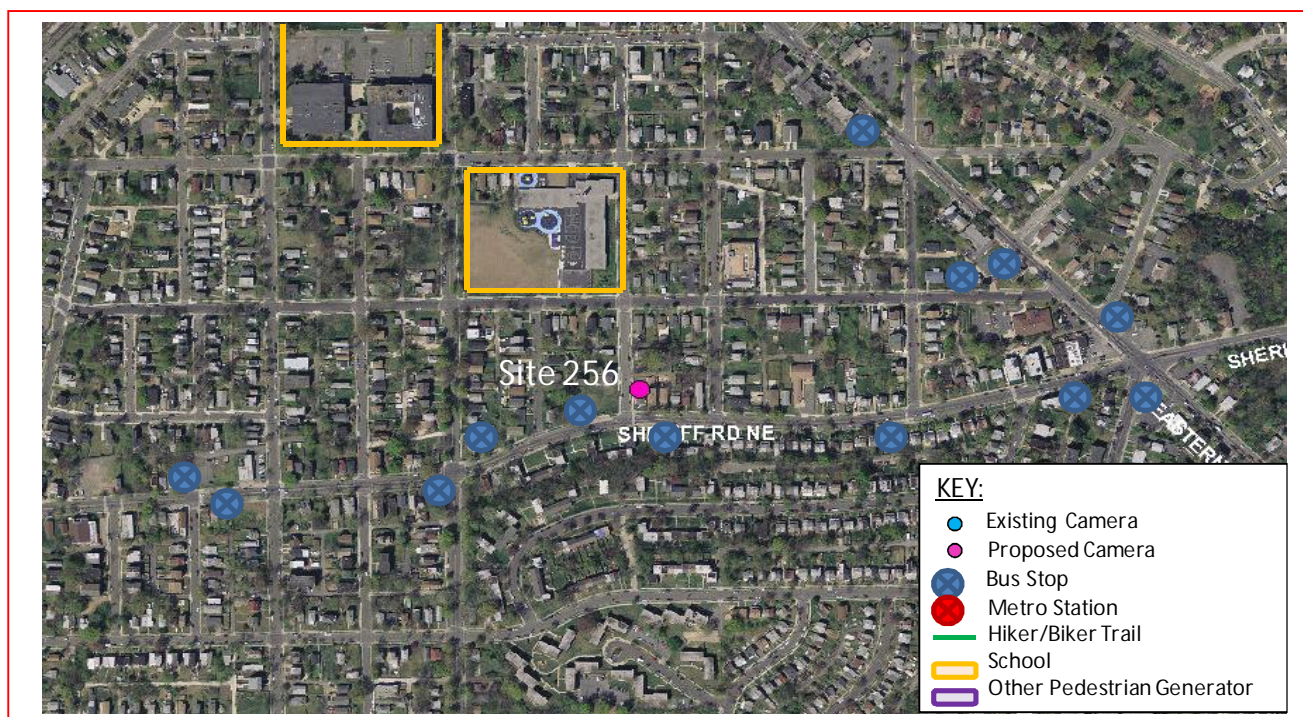
District Department of Transportation

# Speed Limit and Safety Nexus Studies for Automated Enforcement Locations in the District of Columbia

## 5000 Sheriff Road NE

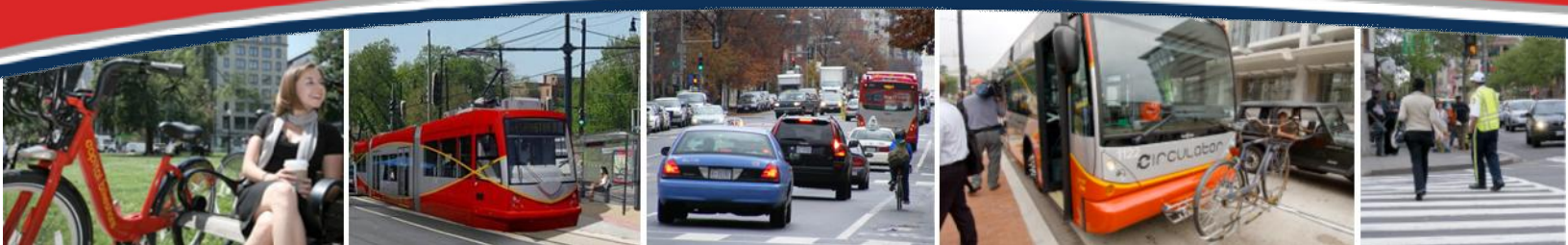
### Study Area and Location

District	PSA	Ward	ANC	Phase	Description
6	602	7	7C	Proposed	5000 Sheriff Road Northeast, Westbound



This *proposed* speed camera will be located in Ward 7 at the 5000 block of Sheriff Road Northeast in the westbound direction. Sheriff Road Northeast runs between Eastern Avenue Northeast to the east and Minnesota Avenue Northeast to the west. The posted speed limit is 30 MPH.

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District Department of Transportation

5000 Sheriff Road NE

## Field Assessment Summary

Sheriff Road Northeast is assumed to run in the east-west direction, and is classified as minor arterial. Sheriff Road Northeast has one travel lane in each direction. This site has the following characteristics:

- This is a residential area with houses and apartments.
- There are three schools in the area: Roper Junior High School, Ron Brown Middle School and Houston Elementary School.
- A warning sign was noted in the area "DEAF PEDESTRIAN." Thus, there is a deaf pedestrian in this area.
- There are sidewalks on both sides of the street and crosswalks with in-street pedestrian warning signs at 50<sup>th</sup> Place Northeast and both sides of 50<sup>th</sup> Street Northeast.
- The pavement is in good condition and there is curb and gutter with drainage inlets. There is on-street parking on both sides of the street and there are shared use bicycle markings in the travel lanes.
- There is a bus stop eastbound just past 50<sup>th</sup> Place Northeast and at 51<sup>st</sup> Street Northeast.



Looking Eastbound

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District Department of Transportation

5000 Sheriff Road NE



Looking Westbound

## Speed Data Analysis

Posted Speed Limit (MPH)	30
Mean Speed (MPH)	20
85th Percentile Speed (MPH)	26
10 MPH Pace Speed	18-27
ADT	4,471

The mean speed is lower than the posted speed limit, and the 85<sup>th</sup> percentile speed is lower than the posted speed limit at this location.

## Crash Data Analysis

From the Accident Summary Report provided for the dates between January 1, 2010 and December 31, 2012, there were a total of 3 crashes at this location. A breakdown of number of crashes by collision type can be found in the chart on the next page. The types of collisions at this location were Rear End, Pedestrian, and Backing with one crash each.

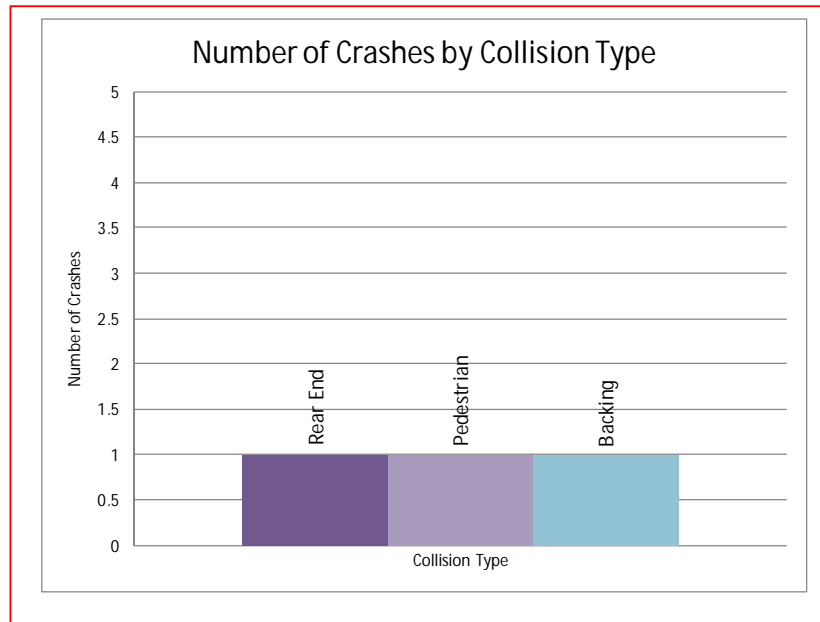
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District Department of Transportation

5000 Sheriff Road NE

Severity			Weather			Surface condition			Light Condition		
Total	3										
Fatal	0	0.0%	Clear	3	100.0%	Dry	3	100.0%	Day	1	33.3%
Injury	1	33.3%	Rain	0	0.0%	Wet	0	0.0%	Night	2	66.7%
Truck	1	33.3%	Snow	0	0.0%	Snow/Ice	0	0.0%			
Unspecified	1	33.3%									



## Safety Nexus

This site presents the following safety considerations which may establish a nexus between traffic safety and the speed camera:

1. Speed Data – The speed data analysis shows travel speeds being lower than the posted speed limit.
2. Crash Data – The crash data analysis shows a low number of crashes at this location.
3. Field Assessment – The following site characteristics suggest a need for a safer travel environment:
  - a. This is a residential area with houses and apartments.
  - b. There are three schools in the area: Roper Junior High School, Ron Brown Middle School and Houston Elementary School.
  - c. A warning sign was noted in the area “DEAF PEDESTRIAN.” Thus, there is a deaf pedestrian in this area, so the need for slower traffic is a necessity.
  - d. There are several bus stops in the area which generate pedestrian activity.

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District Department of Transportation

5000 Sheriff Road NE

Although the speed data analysis showed the mean and 85<sup>th</sup> percentile speeds to be lower than the posted speed limit and the crash data analysis showed a low number of crashes at this location, due to the specific site characteristics, the proximity of schools to the site, the need for safety due to a deaf pedestrian present in the area and other pedestrian generators, there is a nexus between traffic safety and the speed camera at this location.

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# SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD  
MOUNT AIRY, MD 21771

[www.sammateng.com](http://www.sammateng.com)

## 5000 block of Sheriff Rd NE WB Volume

Start Time	Mon	25-Nov-13	Tue	26-Nov-13	Wed	27-Nov-13	Daily Average	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	*	50	29	*	*	*	29	50
12:15	*	48	58	*	*	*	58	48
12:30	*	34	53	*	*	*	53	34
12:45	*	36	61	*	*	*	61	36
01:00	2	45	*	*	*	*	2	45
01:15	7	52	*	*	*	*	7	52
01:30	2	57	*	*	*	*	2	57
01:45	9	41	*	*	*	*	9	41
02:00	4	46	*	*	*	*	4	46
02:15	3	38	*	*	*	*	3	38
02:30	2	35	*	*	*	*	2	35
02:45	7	37	*	*	*	*	7	37
03:00	3	64	*	*	*	*	3	64
03:15	1	56	*	*	*	*	1	56
03:30	1	46	*	*	*	*	1	46
03:45	6	57	*	*	*	*	6	57
04:00	0	57	*	*	*	*	0	57
04:15	3	67	*	*	*	*	3	67
04:30	4	42	*	*	*	*	4	42
04:45	1	47	*	*	*	*	1	47
05:00	5	50	*	*	*	*	5	50
05:15	3	61	*	*	*	*	3	61
05:30	9	56	*	*	*	*	9	56
05:45	15	48	*	*	*	*	15	48
06:00	11	44	*	*	*	*	11	44
06:15	21	51	*	*	*	*	21	51
06:30	24	57	*	*	*	*	24	57
06:45	35	55	*	*	*	*	35	55
07:00	37	58	*	*	*	*	37	58
07:15	66	49	*	*	*	*	66	49
07:30	89	55	*	*	*	*	89	55
07:45	111	52	*	*	*	*	111	52
08:00	149	39	*	*	*	*	149	39
08:15	165	54	*	*	*	*	165	54
08:30	176	48	*	*	*	*	176	48
08:45	175	39	*	*	*	*	175	39
09:00	145	43	*	*	*	*	145	43
09:15	161	54	*	*	*	*	161	54
09:30	137	32	*	*	*	*	137	32
09:45	114	35	*	*	*	*	114	35
10:00	101	29	*	*	*	*	101	29
10:15	64	28	*	*	*	*	64	28
10:30	60	19	*	*	*	*	60	19
10:45	48	23	*	*	*	*	48	23
11:00	43	28	*	*	*	*	43	28
11:15	55	20	*	*	*	*	55	20
11:30	47	18	*	*	*	*	47	18
11:45	33	16	*	*	*	*	33	16
Total	2154	2116	201	0	0	0	2355	2116
Combined Total	4270		201		0		4471	
Peak	08:00	03:30	12:00				08:00	03:30
Vol.	665	227	201				665	227
P.H.F.	0.945	0.847	0.824				0.945	0.847
ADT	ADT 4,471		AADT 4,471					

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1515 RISING RIDGE ROAD  
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## 5000 block of Sheriff Rd NE WB Speed

WB

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/25/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	3	3	5	7	1	1	0	0	0	0	0	0	0	0	20
02:00	0	5	4	6	1	0	0	0	0	0	0	0	0	0	16
03:00	0	3	6	2	0	0	0	0	0	0	0	0	0	0	11
04:00	0	2	4	2	0	0	0	0	0	0	0	0	0	0	8
05:00	2	5	14	10	1	0	0	0	0	0	0	0	0	0	32
06:00	2	15	29	30	13	2	0	0	0	0	0	0	0	0	91
07:00	15	36	134	103	12	2	1	0	0	0	0	0	0	0	303
08:00	40	146	400	78	1	0	0	0	0	0	0	0	0	0	665
09:00	29	118	335	72	2	1	0	0	0	0	0	0	0	0	557
10:00	20	60	120	56	16	1	0	0	0	0	0	0	0	0	273
11:00	19	43	83	28	5	0	0	0	0	0	0	0	0	0	178
12 PM	27	39	67	29	6	0	0	0	0	0	0	0	0	0	168
13:00	34	21	93	41	6	0	0	0	0	0	0	0	0	0	195
14:00	6	29	77	40	3	1	0	0	0	0	0	0	0	0	156
15:00	19	23	111	60	7	2	1	0	0	0	0	0	0	0	223
16:00	48	51	81	32	1	0	0	0	0	0	0	0	0	0	213
17:00	14	54	115	26	5	0	1	0	0	0	0	0	0	0	215
18:00	40	66	65	31	5	0	0	0	0	0	0	0	0	0	207
19:00	30	70	94	18	1	1	0	0	0	0	0	0	0	0	214
20:00	27	53	77	20	2	1	0	0	0	0	0	0	0	0	180
21:00	18	21	79	42	4	0	0	0	0	0	0	0	0	0	164
22:00	8	18	47	23	3	0	0	0	0	0	0	0	0	0	99
23:00	12	12	37	14	6	1	0	0	0	0	0	0	0	0	82
Total	413	893	2077	770	101	13	3	0	0	0	0	0	0	0	4270

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## 5000 block of Sheriff Rd NE WB Speed

WB

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total
11/26/13	9	43	110	35	3	1	0	0	0	0	0	0	0	0	201
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<b>Total</b>	<b>9</b>	<b>43</b>	<b>110</b>	<b>35</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>201</b>
<b>Grand Total</b>	<b>422</b>	<b>936</b>	<b>2187</b>	<b>805</b>	<b>104</b>	<b>14</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4471</b>

15th Percentile : 11 MPH  
 50th Percentile : 20 MPH  
 85th Percentile : 26 MPH  
 95th Percentile : 29 MPH

Stats  
 Mean Speed(Average) : 20 MPH  
 10 MPH Pace Speed : 18-27 MPH  
 Number in Pace : 2602  
 Percent in Pace : 58.2%  
 Number of Vehicles > 30 MPH : 174  
 Percent of Vehicles > 30 MPH : 3.9%



DC Department of Transportation - Traffic Accident Reporting and Analysis System

## Accident Summary Report (R-8)

**Corridor:** SHERIFF RD,NE From FORTY NINTH PL,NE TO FIFTIETH ST,NE

**Time Period Covered:** From 01/01/2010 To 12/31/2012

**Prepared By:** Rahul Jain

**Prepared Date:** 9/15/2013

		<b>Collision Type</b>	<b>#ACC</b>	<b>%</b>	<b>Collision Type</b>	<b>#ACC</b>	<b>%</b>
Total Number of Accident:	3	Right Angle:	0	0.0%	Fixed Object:	0	0.0%
Total Number of Fatalities:	0	Left Turn:	0	0.0%	Ran Off Road:	0	0.0%
Total Number of Injuries:	1	Right Turn:	0	0.0%	Ped. Involved:	1	33.3%
Total Number of Disabling Injuries:	0	Rear End:	1	33.3%	Backing:	1	33.3%
Total Number of NonDisabling Injuries:	0	Side Swiped:	0	0.0%	Non Collision:	0	0.0%
Total Number of Pedestrians Involved:	0	Head On:	0	0.0%	Under/Over Ride:	0	0.0%
Total Number of Bicycles Involved:	0	Parked:	0	0.0%	Unspecified:	0	0.0%
Total Number of Motorcycles Involved:	0						

<b>Time of Day</b>	<b>#ACC</b>	<b>%</b>
07:30 ~ 09:30:	0	0.0%
09:30 ~ 11:30:	1	33.3%
11:30 ~ 13:30:	0	0.0%
13:30 ~ 16:00:	0	0.0%
16:00 ~18:30:	0	0.0%
18:30 ~ 07:30:	2	66.7%
Unspecified:	0	0.0%

<b>Day o fweek</b>	<b>#ACC</b>	<b>%</b>
Sunday:	2	66.7%
Monday:	0	0.0%
Tuesday:	0	0.0%
Wednesday:	0	0.0%
Thursday:	1	33.3%
Friday:	0	0.0%
Saturday:	0	0.0%

<b>Weather Condition</b>	<b>#ACC</b>	<b>%</b>
Clear:	3	100.0%
Rain:	0	0.0%
Snow:	0	0.0%
Sleet/Hail:	0	0.0%
Fog/Mist:	0	0.0%
Crosswind/Blowing Sand:	0	0.0%
Unspecified:	0	0.0%

<b>Surface Condition</b>	<b>#ACC</b>	<b>%</b>
Dry:	3	100.0%
Wet:	0	0.0%
Snow/Ice:	0	0.0%
Slush:	0	0.0%
Water/Sand:	0	0.0%
Repairing:	0	0.0%
Unspecified:	0	0.0%

<b>Type of Vehicle</b>	<b>#VEH</b>	<b>%</b>
Passenger Car:	3	60.0%
Bus:	0	0.0%
Truck:	1	20.0%
Taxi:	0	0.0%
Minivan:	0	0.0%
Police/Emergency Vehicle:	0	0.0%
Motorcycle/Moped:	0	0.0%
Bicycle:	0	0.0%
Fixed Object:	0	0.0%
Unspecified:	1	20.0%

<b>Accident Severity Type</b>	<b>#ACC</b>	<b>%</b>
Fatal Collision:	0	0.0%
Injury Collision:	1	33.3%
PDO Collision:	2	66.7%

<b>Light Condition</b>	<b>#ACC</b>	<b>%</b>
Daylight:	1	33.3%
Dawn/Dusk:	0	0.0%
Dark(Lighted):	2	66.7%
Dark(Not Lighted):	0	0.0%
Dark(Unknown Lighting):	0	0.0%
Unspecified:	0	0.0%

<b>Contributing Factor</b>	<b>#VEH</b>	<b>%</b>
Driver: Speed:	0	0.0%
Driver: Alcohol/Drug:	0	0.0%
Driver: Electronic Device:	0	0.0%
Driver: Others:	3	60.0%
Vehicle:	0	0.0%
Roadway:	0	0.0%
Unspecified:	2	40.0%

<b>Pedestrian Actions</b>	<b>#ACC</b>	<b>%</b>
In Crosswalk with Signal:	0	0.0%
In Crosswalk against Signal:	0	0.0%
In Crosswalk no Signal:	0	0.0%
In Unmarked Crosswalk:	0	0.0%
Not in Crosswalk:	0	0.0%
From Between Parked Cars:	0	0.0%
Unspecified:	0	0.0%

3 Records are not approved as of 9/15/2013 2:52:48 PM