



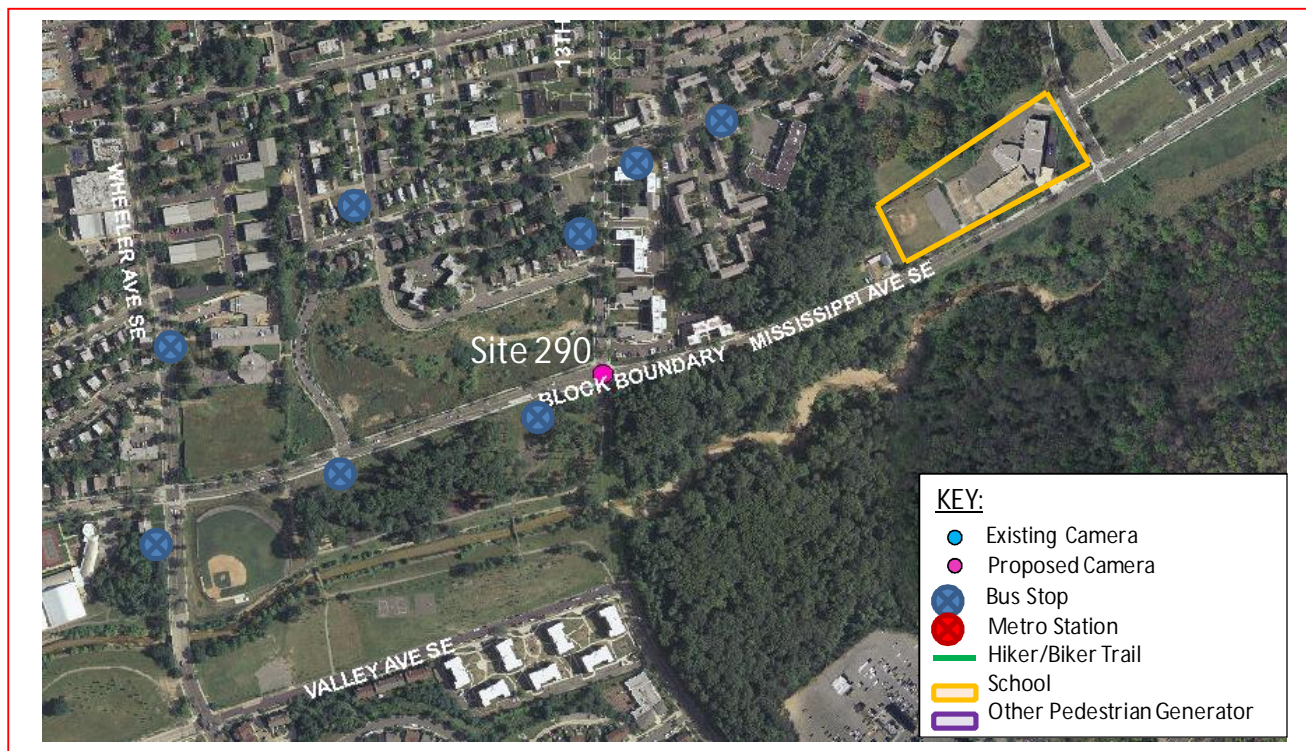
District Department of Transportation

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

### 1300 Block Mississippi Avenue SE

#### Study Area and Location

District	PSA	Ward	ANC	Phase	Description
7	705	8	8E	Proposed	1300 Block Mississippi Avenue Southeast, Northeast-bound



The *proposed* speed camera is located in Ward 8 at the 1300 block of Mississippi Avenue Southeast in the northeast-bound direction. Mississippi Avenue Southeast runs between Southern Avenue Southeast to the east and Atlantic Street Southeast to the west. The posted speed limit is 25 MPH.

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District Department of Transportation

55 M Street, SE, Suite 400

Washington, DC 20003



District Department of Transportation

1300 Block Mississippi Avenue SE

## Field Assessment Summary

Mississippi Avenue Southeast is assumed to run in a northeast-southwest direction and is classified as a collector. Mississippi Avenue Southeast has one travel lane in each direction. This site has the following characteristics:

- This is a residential area with apartments.
- There is one school in the area: Turner Elementary School.
- There are several bus stops in the area that generate pedestrian activity.
- Oxon Run National Parkway is in the area.
- There is a sidewalk on the north side of the street and a crosswalk at 15<sup>th</sup> Street.
- There is on-street parking on both sides of the street, but it is restricted near the school from 8 AM-4:30 PM.
- The pavement is like new and there are rumble strips. There is curb and gutter with drainage inlets.



Looking Northeast-bound

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District Department of Transportation

1300 Block Mississippi Avenue SE



Looking Southwest-bound

## Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	30
85th Percentile Speed (MPH)	36
10 MPH Pace Speed	27-36
ADT	2,309

The mean speed is higher than the posted speed by 5 MPH and the 85<sup>th</sup> percentile speed is higher than the posted speed limit by 11 MPH 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 4 crashes at this location. A breakdown of number of crashes by collision type can be found in the chart on the next page. The most common types of collision at this location were Rear End, Side Swipe, Right Turn and Run-Off-Road (1 crash each). No other collision types were reported at this location.

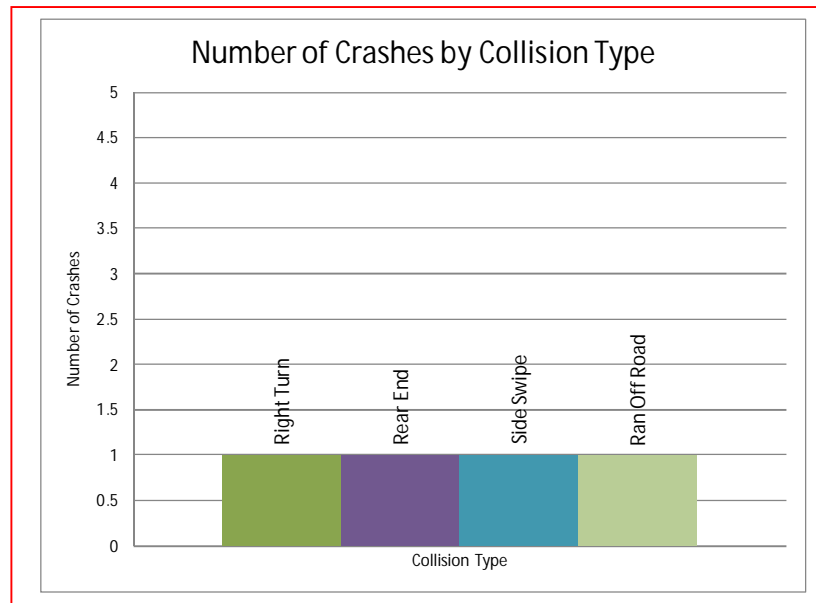
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District Department of Transportation

1300 Block Mississippi Avenue SE

Severity			Weather			Surface condition			Light Condition		
Total	4										
Fatal	0	0.0%	Clear	4	100.0%	Dry	4	100.0%	Day	2	50.0%
Injury	1	25.0%	Rain	0	0.0%	Wet	0	0.0%	Night	2	50.0%
		0.0%	Snow	0	0.0%	Snow/Ice	0	0.0%			
		0.0%									



## 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 85<sup>th</sup> percentile speed is much higher than the posted speed limit at this location.
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 apartments.
  - b. There is one school in the area: Turner Elementary School.
  - c. Oxon Run National Parkway is in the area which generates pedestrian and bicycle activity.
  - d. There are several bus stops in the area which generate pedestrian activity.
  - e. There is on-street parking on both sides of the street.



District Department of Transportation

1300 Block Mississippi Avenue SE

Although the crash data analysis showed a low number of crashes at this location, due to the speed data analysis, the specific site characteristics, and pedestrian generators, there is a nexus between traffic safety and the speed camera at this location.

# SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD  
MOUNT AIRY, MD 21771

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

## 1300 block of Mississippi Ave SE NEB Speed

NEB															
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
11/24/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	0	0	4	16	12	14	1	1	1	0	0	0	0	0	49
22:00	0	2	2	11	20	2	5	0	0	0	0	0	0	0	42
23:00	1	0	0	7	8	4	2	1	0	0	0	0	0	0	23
Total	1	2	6	34	40	20	8	2	1	0	0	0	0	0	114

# SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD  
MOUNT AIRY, MD 21771

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

## 1300 block of Mississippi Ave SE NEB Speed

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/25/13	0	0	1	9	2	3	0	0	0	0	0	0	0	0	15
01:00	1	1	0	4	2	1	0	0	0	0	0	0	0	0	9
02:00	0	0	0	2	0	0	0	1	0	0	0	0	0	0	3
03:00	1	0	0	1	1	0	0	0	0	0	0	0	0	0	3
04:00	0	0	3	0	1	1	0	0	0	0	0	0	0	0	5
05:00	0	0	1	3	5	1	0	0	0	0	0	0	0	0	10
06:00	0	0	5	17	21	17	1	0	0	0	0	0	0	0	61
07:00	3	1	8	36	62	46	5	2	0	0	0	0	0	0	163
08:00	3	1	14	47	84	43	10	0	0	0	0	0	0	0	202
09:00	22	4	10	31	33	13	2	1	0	0	0	0	0	0	116
10:00	34	0	8	21	24	14	1	3	0	0	0	0	0	0	105
11:00	5	4	6	22	20	10	9	0	0	0	0	0	0	0	76
12 PM	10	1	4	29	28	24	2	0	0	0	0	0	0	0	98
13:00	2	1	5	22	38	12	8	1	0	0	0	0	0	0	89
14:00	4	1	16	37	46	17	3	1	0	0	0	0	0	0	125
15:00	1	4	18	71	65	19	1	0	0	0	0	0	0	0	179
16:00	9	3	25	87	128	37	11	0	0	0	0	0	0	0	300
17:00	1	3	16	94	91	27	0	0	1	0	0	0	0	0	233
18:00	0	1	21	62	68	21	4	1	0	0	0	0	0	0	178
19:00	0	1	15	41	54	21	0	1	0	0	0	0	0	0	133
20:00	1	1	6	27	44	12	1	0	0	0	0	0	0	0	92
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	97	27	182	663	817	339	58	11	1	0	0	0	0	0	2195
Grand Total	98	29	188	697	857	359	66	13	2	0	0	0	0	0	2309

15th Percentile : 23 MPH  
 50th Percentile : 30 MPH  
 85th Percentile : 36 MPH  
 95th Percentile : 39 MPH

Stats  
 Mean Speed(Average) : 30 MPH  
 10 MPH Pace Speed : 27-36 MPH  
 Number in Pace : 1390  
 Percent in Pace : 60.2%  
 Number of Vehicles > 25 MPH : 1858  
 Percent of Vehicles > 25 MPH : 80.5%

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## 1300 block of Mississippi Ave SE NEB Volume

Start Time	Sun	24-Nov-13	Mon	25-Nov-13	Tue	26-Nov-13	Daily Average	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	*	*	6	27	*	*	6	27
12:15	*	*	1	24	*	*	1	24
12:30	*	*	3	19	*	*	3	19
12:45	*	*	5	28	*	*	5	28
01:00	*	*	1	26	*	*	1	26
01:15	*	*	4	22	*	*	4	22
01:30	*	*	2	15	*	*	2	15
01:45	*	*	2	26	*	*	2	26
02:00	*	*	1	33	*	*	1	33
02:15	*	*	0	29	*	*	0	29
02:30	*	*	1	31	*	*	1	31
02:45	*	*	1	32	*	*	1	32
03:00	*	*	1	37	*	*	1	37
03:15	*	*	1	45	*	*	1	45
03:30	*	*	1	42	*	*	1	42
03:45	*	*	0	55	*	*	0	55
04:00	*	*	0	105	*	*	0	105
04:15	*	*	2	75	*	*	2	75
04:30	*	*	1	60	*	*	1	60
04:45	*	*	2	60	*	*	2	60
05:00	*	*	0	54	*	*	0	54
05:15	*	*	0	48	*	*	0	48
05:30	*	*	3	66	*	*	3	66
05:45	*	*	7	65	*	*	7	65
06:00	*	*	9	55	*	*	9	55
06:15	*	*	9	41	*	*	9	41
06:30	*	*	21	46	*	*	21	46
06:45	*	*	22	36	*	*	22	36
07:00	*	*	29	42	*	*	29	42
07:15	*	*	44	34	*	*	44	34
07:30	*	*	51	27	*	*	51	27
07:45	*	*	39	30	*	*	39	30
08:00	*	*	43	23	*	*	43	23
08:15	*	*	44	32	*	*	44	32
08:30	*	*	68	22	*	*	68	22
08:45	*	*	47	15	*	*	47	15
09:00	*	16	36	*	*	*	36	16
09:15	*	9	30	*	*	*	30	9
09:30	*	9	25	*	*	*	25	9
09:45	*	15	25	*	*	*	25	15
10:00	*	14	24	*	*	*	24	14
10:15	*	6	28	*	*	*	28	6
10:30	*	14	31	*	*	*	31	14
10:45	*	8	22	*	*	*	22	8
11:00	*	8	18	*	*	*	18	8
11:15	*	7	24	*	*	*	24	7
11:30	*	6	13	*	*	*	13	6
11:45	*	2	21	*	*	*	21	2
Total	0	114	768	1427	0	0	768	1541
Combined Total	114		2195		0		2309	
Peak	09:00		08:00	04:00			08:00	04:00
Vol.	49		202	300			202	300
P.H.F.	0.766		0.743	0.714			0.743	0.714
ADT	ADT 2,309		AADT 2,309					



DC Department of Transportation - Traffic Accident Reporting and Analysis System

## Accident Summary Report (R-8)

**Corridor:** MISSISSIPPI AVE,SE From FIFTEENTH ST,SE TO TENTH PL,SE

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

**Prepared By:** Rahul Jain

**Prepared Date:** 9/16/2013

		<b>Collision Type</b>	<b>#ACC</b>	<b>%</b>	<b>Collision Type</b>	<b>#ACC</b>	<b>%</b>
Total Number of Accident:	4	Right Angle:	0	0.0%	Fixed Object:	0	0.0%
Total Number of Fatalities:	0	Left Turn:	0	0.0%	Ran Off Road:	1	25.0%
Total Number of Injuries:	1	Right Turn:	1	25.0%	Ped. Involved:	0	0.0%
Total Number of Disabling Injuries:	0	Rear End:	1	25.0%	Backing:	0	0.0%
Total Number of NonDisabling Injuries:	0	Side Swiped:	1	25.0%	Non Collision:	0	0.0%
Total Number of Pedestrians Involved:	1	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>	<b>Day o fweek</b>	<b>#ACC</b>	<b>%</b>
07:30 ~ 09:30:	0	0.0%	Sunday:	0	0.0%
09:30 ~ 11:30:	0	0.0%	Monday:	1	25.0%
11:30 ~ 13:30:	1	25.0%	Tuesday:	1	25.0%
13:30 ~ 16:00:	0	0.0%	Wednesday:	0	0.0%
16:00 ~18:30:	1	25.0%	Thursday:	0	0.0%
18:30 ~ 07:30:	2	50.0%	Friday:	2	50.0%
Unspecified:	0	0.0%	Saturday:	0	0.0%

<b>Weather Condition</b>	<b>#ACC</b>	<b>%</b>	<b>Surface Condition</b>	<b>#ACC</b>	<b>%</b>
Clear:	4	100.0%	Dry:	4	100.0%
Rain:	0	0.0%	Wet:	0	0.0%
Snow:	0	0.0%	Snow/Ice:	0	0.0%
Sleet/Hail:	0	0.0%	Slush:	0	0.0%
Fog/Mist:	0	0.0%	Water/Sand:	0	0.0%
Crosswind/Blowing Sand:	0	0.0%	Repairing:	0	0.0%
Unspecified:	0	0.0%	Unspecified:	0	0.0%

<b>Type of Vehicle</b>	<b>#VEH</b>	<b>%</b>	<b>Accident Severity Type</b>	<b>#ACC</b>	<b>%</b>
Passenger Car:	6	85.7%	Fatal Collision:	0	0.0%
Bus:	0	0.0%	Injury Collision:	1	25.0%
Truck:	0	0.0%	PDO Collision:	3	75.0%
Taxi:	0	0.0%			
Minivan:	0	0.0%	<b>Light Condition</b>	<b>#ACC</b>	<b>%</b>
Police/Emergency Vehicle:	0	0.0%	Daylight:	2	50.0%
Motorcycle/Moped:	0	0.0%	Dawn/Dusk:	0	0.0%
Bicycle:	0	0.0%	Dark(Lighted):	2	50.0%
Fixed Object:	0	0.0%	Dark(Not Lighted):	0	0.0%
Unspecified:	1	14.3%	Dark(Unknown Lighting):	0	0.0%
			Unspecified:	0	0.0%

<b>Contributing Factor</b>	<b>#VEH</b>	<b>%</b>	<b>Pedestrian Actions</b>	<b>#ACC</b>	<b>%</b>
Driver: Speed:	0	0.0%	In Crosswalk with Signal:	0	0.0%
Driver: Alcohol/Drug:	0	0.0%	In Crosswalk against Signal:	0	0.0%
Driver: Electronic Device:	0	0.0%	In Crosswalk no Signal:	0	0.0%
Driver: Others:	2	28.6%	In Unmarked Crosswalk:	0	0.0%
Vehicle:	0	0.0%	Not in Crosswalk:	0	0.0%
Roadway:	0	0.0%	From Between Parked Cars:	0	0.0%
Unspecified:	5	71.4%	Unspecified:	1	100.0%

2 Records are not approved as of 9/16/2013 12:49:01 PM