



District Department of Transportation

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

5000 7th Street NW

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
4	407	4	4D/4A	Proposed	5000 7 th Street Northwest Southbound



The *proposed* speed camera will be located in Ward 4 at the 5000 block of 7th Street Northwest for the southbound direction. 7th Street Northwest runs from Whittier Street Northwest in the north to Rock Creek Church Road Northwest in the south. The posted speed limit is 25 MPH.

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5000 7th Street NW

Field Assessment Summary

7th Street Northwest is assumed to run in a north-south direction and is classified as a local road. 7th Street Northwest has one lane of travel in each direction. This site has the following characteristics:

- This site is located in a residential area with houses on both sides of the roadway.
- The existing pavement is in fair condition and has curb on both sides.
- There are sidewalks and in-street parking on both sides of the road.
- There are two schools in the area: Truesdell Education Campus and Barnard Elementary School.
- The Rudolph Playground is in the area and generates pedestrian and bicycle activity.
- There are several bus stops in the area that generate pedestrian activity.



Looking Northbound



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5000 7th Street NW



Looking Southbound

Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	9
85th Percentile Speed (MPH)	12
10 MPH Pace Speed (MPH)	4-13
ADT	540

The mean speed limit is lower than the posted speed limit by 16 MPH and the 85th percentile speed is lower than the posted speed limit by 13 MPH at this location.

Crash Data Analysis

From the Accident Summary Report provided for the dates between January 1, 2013 and December 31, 2012 there were a total of eight 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 crashes at this location were Parked (2) and Backing (2). Crash data also shows two (2) accidents where speeding was the contributing factor at this location.

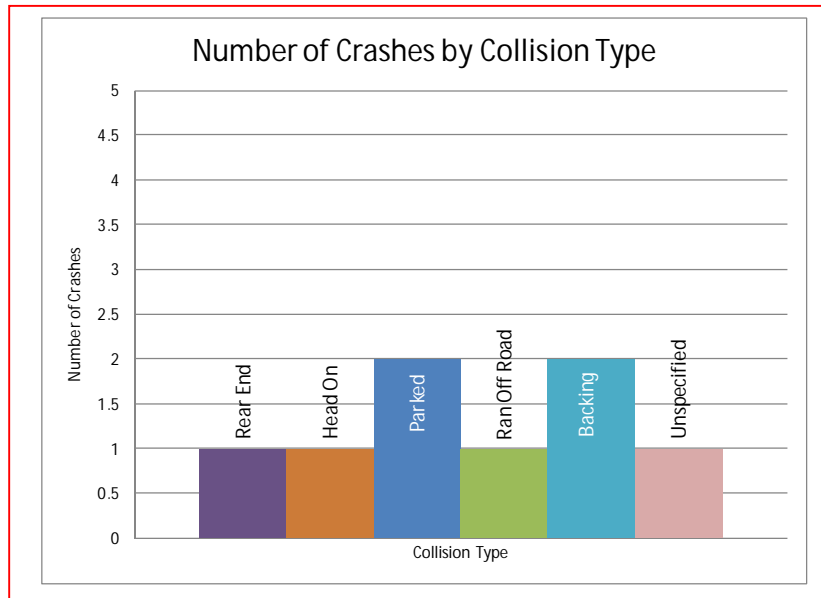
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5000 7th Street NW

Severity			Weather			Surface condition			Light Condition		
Total	8										
Fatal	0	0.0%	Clear	6	75.0%	Dry	5	62.5%	Day	7	87.5%
Injury	2	25.0%	Rain	1	12.5%	Wet	1	12.5%	Night	0	0.0%
Taxi	1	12.5%	Snow	0	0.0%	Snow/Ice	0	0.0%			
Bus	1	12.5%									



Safety Nexus

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

1. Speed Data – The speed data analysis shows travel speeds being lower than the posted speed limit.
2. Crash Data – There were two crashes where speeding was the contributing factor at this location.
3. Field Assessment – The following site characteristics suggest a need for a safer travel environment:
 - a. This site is located in a residential area with houses on both sides of the roadway.
 - b. There are two schools in the area: Truesdell Education Campus and Barnard Elementary School.
 - c. The Rudolph Playground is in the area which generates pedestrian and bicycle activity.

Despite low travel speeds as revealed in the speed data analysis and low number of crashes as revealed in the crash data analysis, there are safety concerns in this residential area. The proximity of the site to schools and a playground provides opportunities for vehicle-pedestrian and vehicle-bicycle conflicts. Thus, due to the



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specific site characteristics of a pedestrian neighborhood, the proximity to schools zones, the proximity to a neighborhood playground, and the 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

5000 block of 7th St NW SB Speed

SB

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/15/13	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
01:00	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
02:00	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
03:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
04:00	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
05:00	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
06:00	15	0	1	0	0	0	0	0	0	0	0	0	0	0	16
07:00	56	0	0	0	0	0	0	0	0	0	0	0	0	0	56
08:00	64	0	0	0	0	0	0	0	0	0	0	0	0	0	64
09:00	22	0	1	0	0	0	0	0	0	0	0	0	0	0	23
10:00	27	0	0	0	0	0	0	0	0	0	0	0	0	0	27
11:00	28	0	0	0	0	0	0	0	0	0	0	0	0	0	28
12 PM	22	0	0	0	0	0	0	0	0	0	0	0	0	0	22
13:00	32	0	0	0	0	0	0	0	0	0	0	0	0	0	32
14:00	14	0	0	0	0	0	0	0	0	0	0	0	0	0	14
15:00	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30
16:00	37	1	0	0	0	0	0	0	0	0	0	0	0	0	38
17:00	37	0	0	0	0	0	0	0	0	0	0	0	0	0	37
18:00	42	1	0	0	0	0	0	0	0	0	0	0	0	0	43
19:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
20:00	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30
21:00	22	0	0	0	0	0	0	0	0	0	0	0	0	0	22
22:00	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19
23:00	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Total	536	2	2	0	0	0	0	0	0	0	0	0	0	0	540
Grand Total	536	2	2	0	0	0	0	0	0	0	0	0	0	0	540

15th Percentile : 4 MPH
 50th Percentile : 8 MPH
 85th Percentile : 12 MPH
 95th Percentile : 14 MPH

Stats
 Mean Speed(Average) : 9 MPH
 10 MPH Pace Speed : 4-13 MPH
 Number in Pace : 433
 Percent in Pace : 80.2%
 Number of Vehicles > 25 MPH : 0
 Percent of Vehicles > 25 MPH : 0.0%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

5000 block of 7th St NW SB Volume

Start Time	15-Nov-13		16-Nov-13		17-Nov-13		Daily Average	
	Fri A.M.	P.M.	Sat A.M.	P.M.	Sun A.M.	P.M.	A.M.	P.M.
12:00	0	7	*	*	*	*	0	7
12:15	0	5	*	*	*	*	0	5
12:30	0	5	*	*	*	*	0	5
12:45	1	5	*	*	*	*	1	5
01:00	1	7	*	*	*	*	1	7
01:15	0	7	*	*	*	*	0	7
01:30	0	9	*	*	*	*	0	9
01:45	1	9	*	*	*	*	1	9
02:00	0	5	*	*	*	*	0	5
02:15	1	4	*	*	*	*	1	4
02:30	1	1	*	*	*	*	1	1
02:45	1	4	*	*	*	*	1	4
03:00	1	9	*	*	*	*	1	9
03:15	0	7	*	*	*	*	0	7
03:30	0	5	*	*	*	*	0	5
03:45	0	9	*	*	*	*	0	9
04:00	0	10	*	*	*	*	0	10
04:15	1	9	*	*	*	*	1	9
04:30	0	6	*	*	*	*	0	6
04:45	2	13	*	*	*	*	2	13
05:00	0	8	*	*	*	*	0	8
05:15	2	11	*	*	*	*	2	11
05:30	5	10	*	*	*	*	5	10
05:45	0	8	*	*	*	*	0	8
06:00	2	13	*	*	*	*	2	13
06:15	2	13	*	*	*	*	2	13
06:30	4	10	*	*	*	*	4	10
06:45	8	7	*	*	*	*	8	7
07:00	10	4	*	*	*	*	10	4
07:15	12	3	*	*	*	*	12	3
07:30	16	0	*	*	*	*	16	0
07:45	18	3	*	*	*	*	18	3
08:00	21	11	*	*	*	*	21	11
08:15	17	6	*	*	*	*	17	6
08:30	12	8	*	*	*	*	12	8
08:45	14	5	*	*	*	*	14	5
09:00	4	5	*	*	*	*	4	5
09:15	13	6	*	*	*	*	13	6
09:30	5	9	*	*	*	*	5	9
09:45	1	2	*	*	*	*	1	2
10:00	9	2	*	*	*	*	9	2
10:15	5	6	*	*	*	*	5	6
10:30	7	7	*	*	*	*	7	7
10:45	6	4	*	*	*	*	6	4
11:00	6	4	*	*	*	*	6	4
11:15	5	0	*	*	*	*	5	0
11:30	6	4	*	*	*	*	6	4
11:45	11	4	*	*	*	*	11	4
Total	231	309	0	0	0	0	231	309
Combined Total	540		0		0		540	
Peak	07:30	05:30					07:30	05:30
Vol.	72	44					72	44
P.H.F.	0.857	0.846					0.857	0.846
ADT	ADT 540		AADT 540					

Accident Summary Report (R-8)**Corridor:** 7TH ST,NW,SW From GALLATIN ST,NW TO EMERSON ST,NW**Time Period Covered:** From 01/01/2010 To 12/31/2012**Prepared By:** Rahul Jain**Prepared Date:** 9/16/2013

		Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Accident:	8	Right Angle:	0	0.0%	Fixed Object:	0	0.0%
Total Number of Fatalities:	0	Left Turn:	0	0.0%	Ran Off Road:	1	12.5%
Total Number of Injuries:	2	Right Turn:	0	0.0%	Ped. Involved:	0	0.0%
Total Number of Disabling Injuries:	0	Rear End:	1	12.5%	Backing:	2	25.0%
Total Number of NonDisabling Injuries:	1	Side Swiped:	0	0.0%	Non Collision:	0	0.0%
Total Number of Pedestrians Involved:	0	Head On:	1	12.5%	Under/Over Ride:	0	0.0%
Total Number of Bicycles Involved:	1	Parked:	2	25.0%	Unspecified:	1	12.5%
Total Number of Motorcycles Involved:	0						

Time of Day	#ACC	%	Day o fweek	#ACC	%
07:30 ~ 09:30:	2	25.0%	Sunday:	1	12.5%
09:30 ~ 11:30:	3	37.5%	Monday:	1	12.5%
11:30 ~ 13:30:	1	12.5%	Tuesday:	2	25.0%
13:30 ~ 16:00:	0	0.0%	Wednesday:	0	0.0%
16:00 ~18:30:	1	12.5%	Thursday:	1	12.5%
18:30 ~ 07:30:	1	12.5%	Friday:	1	12.5%
Unspecified:	0	0.0%	Saturday:	2	25.0%

Weather Condition	#ACC	%	Surface Condition	#ACC	%
Clear:	6	75.0%	Dry:	5	62.5%
Rain:	1	12.5%	Wet:	1	12.5%
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:	1	12.5%	Unspecified:	2	25.0%

Type of Vehicle	#VEH	%	Accident Severity Type	#ACC	%
Passenger Car:	8	57.1%	Fatal Collision:	0	0.0%
Bus:	1	7.1%	Injury Collision:	2	25.0%
Truck:	0	0.0%	PDO Collision:	6	75.0%
Taxi:	1	7.1%			
Minivan:	0	0.0%	Light Condition	#ACC	%
Police/Emergency Vehicle:	1	7.1%	Daylight:	7	87.5%
Motorcycle/Moped:	0	0.0%	Dawn/Dusk:	0	0.0%
Bicycle:	1	7.1%	Dark(Lighted):	0	0.0%
Fixed Object:	0	0.0%	Dark(Not Lighted):	0	0.0%
Unspecified:	2	14.3%	Dark(Unknown Lighting):	0	0.0%
			Unspecified:	1	12.5%

Contributing Factor	#VEH	%	Pedestrian Actions	#ACC	%
Driver: Speed:	2	14.3%	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	14.3%	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:	10	71.4%	Unspecified:	0	0.0%

6 Records are not approved as of 9/16/2013 8:19:02 AM