



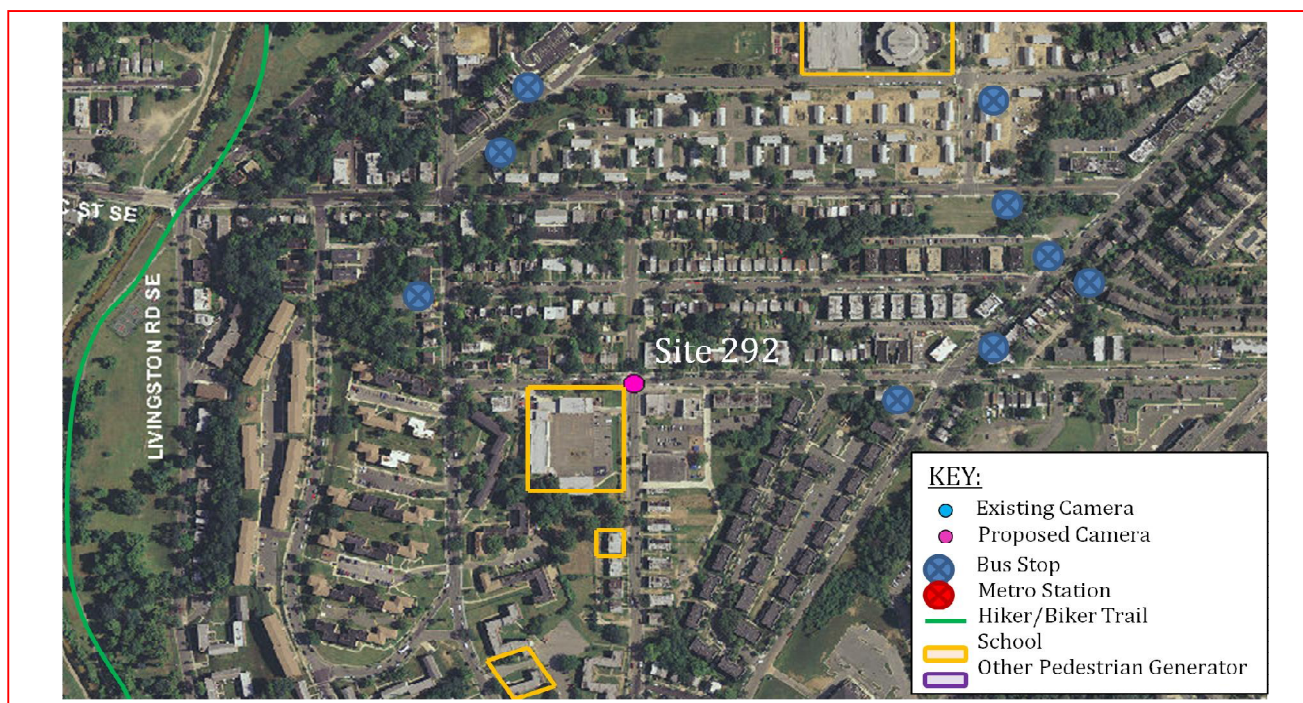
District Department of Transportation

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

4200 Block 6th Street SE

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
7	706	8	8D	Proposed	4200 Block 6 th Street Southeast, Northbound



The *proposed* camera will be located in Ward 8 at the 4200 block of 6th Street Southeast in the northbound direction. Existing 6th Street runs between Atlantic Street Southeast to the north and Southern Avenue Southeast to the south. The posted speed limit is 25 MPH.

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District Department of Transportation

4200 Block 6th Street SE

Field Assessment Summary

6th Street is assumed to run in a north-south direction and is classified as a collector. 6th Street has one travel lane in each direction. This site has the following characteristics:

- This is a residential area with apartments, houses, and driveways.
- There are four schools in the area: Hendley Elementary School, St. Thomas More Catholic School, Ferbee-Hope Community School Complex, and Southeast Children's Fund Infants and Toddler Center.
- There is the Washington Highland Recreation Center in the area.
- There is sidewalk and on-street parking on both sides of the street.
- There is a midblock crosswalk and a four-way stop at Chesapeake Street with crosswalks on all four legs.
- There are warning beacons and speed humps.
- The pavement is in good condition with curb and gutter with drainage inlets.
- There is a bus stop northbound before Chesapeake Street.



Looking Northbound

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District Department of Transportation

4200 Block 6th Street SE



Looking Southbound

Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	14
85th Percentile Speed (MPH)	20
10 MPH Pace Speed	9-18
ADT	882

Both the mean speed and the 85th percentile speed are lower than the posted speed limit. The 85th percentile speed is 5 MPH lower than the posted speed limit.

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 6 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 Side Swipe (3 crashes) and Backing Up (2 crashes). The other collision types had 1 crash or less each.

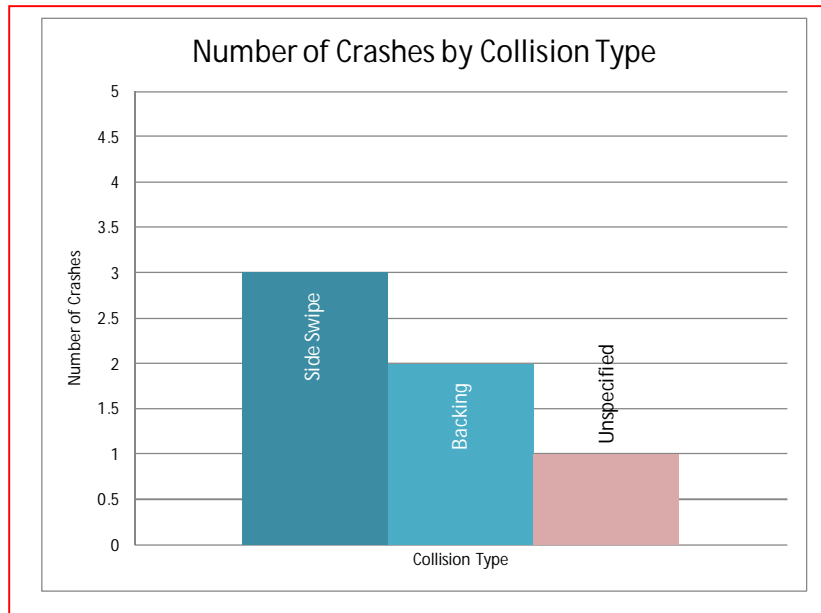
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District Department of Transportation

4200 Block 6th Street SE

Severity			Weather			Surface condition			Light Condition		
Total	6										
Fatal	0	0.0%	Clear	4	66.7%	Dry	5	83.3%	Day	6	100.0%
Injury	0	0.0%	Rain	1	16.7%	Wet	1	16.7%	Night	0	0.0%
Bus	3	50.0%	Snow	0	0.0%	Snow/Ice	0	0.0%			
Truck	1	16.7%									



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 apartments, houses, and driveways.
 - b. There are four schools in the area: Hendley Elementary School, St. Thomas More Catholic School, Ferbee-Hope Community School Complex, and Southeast Children’s Fund Infants and Toddler Center. There is the Washington Highland Recreation Center in the area.
 - c. There are several bus stops in the area which generate pedestrian activity.
 - d. There is on-street parking on both sides of the street.

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District Department of Transportation

4200 Block 6th Street SE

Although the speed data analysis showed the mean and 85th percentile speeds to be lower than the posted speed limit and the crash data analysis showed a low number of crashes at this location, the proximity of the site to school zones and recreational areas presents safety concerns. Due to the specific site characteristics of a residential area, the proximity of schools to the site, 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

4200 block of 6th St SE NB Speed

NB

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	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	4	4	8	0	0	0	0	0	0	0	0	0	0	0	16
23:00	1	7	7	0	0	0	0	0	0	0	0	0	0	0	15
Total	5	11	15	0	0	0	0	0	0	0	0	0	0	0	31

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

4200 block of 6th St SE NB Speed

NB

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/25/13	1	6	2	1	0	0	0	0	0	0	0	0	0	0	10
01:00	0	1	3	0	0	0	0	0	0	0	0	0	0	0	4
02:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
03:00	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2
04:00	1	5	0	0	0	0	0	0	0	0	0	0	0	0	6
05:00	3	5	4	0	0	0	0	0	0	0	0	0	0	0	12
06:00	6	15	5	1	0	0	0	0	0	0	0	0	0	0	27
07:00	33	30	9	0	0	0	0	0	0	0	0	0	0	0	72
08:00	58	32	3	2	0	0	0	0	0	0	0	0	0	0	95
09:00	14	18	3	2	0	0	0	0	0	0	0	0	0	0	37
10:00	8	9	10	0	0	0	0	0	0	0	0	0	0	0	27
11:00	8	15	9	3	0	0	0	0	0	0	0	0	0	0	35
12 PM	7	18	14	1	0	0	0	0	0	0	0	0	0	0	40
13:00	22	16	9	3	0	0	0	0	0	0	0	0	0	0	50
14:00	10	34	5	0	0	0	0	0	0	0	0	0	0	0	49
15:00	40	29	9	0	0	0	0	0	0	0	0	0	0	0	78
16:00	38	27	9	0	0	0	0	0	0	0	0	0	0	0	74
17:00	58	43	9	0	1	0	0	0	0	0	0	0	0	0	111
18:00	10	22	12	1	0	0	0	0	0	0	0	0	0	0	45
19:00	4	20	11	1	0	0	0	0	0	0	0	0	0	0	36
20:00	0	13	10	1	0	0	0	0	0	0	0	0	0	0	24
21:00	2	5	9	0	0	0	0	0	0	0	0	0	0	0	16
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	324	364	146	16	1	0	0	0	0	0	0	0	0	0	851
Grand Total	329	375	161	16	1	0	0	0	0	0	0	0	0	0	882

15th Percentile : 6 MPH
 50th Percentile : 13 MPH
 85th Percentile : 20 MPH
 95th Percentile : 23 MPH

Stats
 Mean Speed(Average) : 14 MPH
 10 MPH Pace Speed : 9-18 MPH
 Number in Pace : 469
 Percent in Pace : 53.2%
 Number of Vehicles > 25 MPH : 23
 Percent of Vehicles > 25 MPH : 2.6%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

4200 block of 6th St SE NB 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	*	*	4	2	*	*	4	2
12:15	*	*	3	12	*	*	3	12
12:30	*	*	1	14	*	*	1	14
12:45	*	*	2	12	*	*	2	12
01:00	*	*	2	10	*	*	2	10
01:15	*	*	1	15	*	*	1	15
01:30	*	*	0	10	*	*	0	10
01:45	*	*	1	15	*	*	1	15
02:00	*	*	0	9	*	*	0	9
02:15	*	*	0	19	*	*	0	19
02:30	*	*	1	8	*	*	1	8
02:45	*	*	0	13	*	*	0	13
03:00	*	*	1	26	*	*	1	26
03:15	*	*	0	15	*	*	0	15
03:30	*	*	0	17	*	*	0	17
03:45	*	*	1	20	*	*	1	20
04:00	*	*	1	13	*	*	1	13
04:15	*	*	1	15	*	*	1	15
04:30	*	*	2	26	*	*	2	26
04:45	*	*	2	20	*	*	2	20
05:00	*	*	1	25	*	*	1	25
05:15	*	*	3	29	*	*	3	29
05:30	*	*	3	35	*	*	3	35
05:45	*	*	5	22	*	*	5	22
06:00	*	*	5	21	*	*	5	21
06:15	*	*	6	6	*	*	6	6
06:30	*	*	7	6	*	*	7	6
06:45	*	*	9	12	*	*	9	12
07:00	*	*	19	12	*	*	19	12
07:15	*	*	14	6	*	*	14	6
07:30	*	*	21	11	*	*	21	11
07:45	*	*	18	7	*	*	18	7
08:00	*	*	33	8	*	*	33	8
08:15	*	*	18	6	*	*	18	6
08:30	*	*	21	5	*	*	21	5
08:45	*	*	23	5	*	*	23	5
09:00	*	*	8	3	*	*	8	3
09:15	*	*	11	6	*	*	11	6
09:30	*	*	5	5	*	*	5	5
09:45	*	*	13	2	*	*	13	2
10:00	*	4	10	*	*	*	10	4
10:15	*	3	8	*	*	*	8	3
10:30	*	5	4	*	*	*	4	5
10:45	*	4	5	*	*	*	5	4
11:00	*	4	8	*	*	*	8	4
11:15	*	5	5	*	*	*	5	5
11:30	*	3	14	*	*	*	14	3
11:45	*	3	8	*	*	*	8	3
Total	0	31	328	523	0	0	328	554
Combined Total	31		851		0		882	
Peak	10:30		08:00	05:00			08:00	05:00
Vol.	18		95	111			95	111
P.H.F.	0.900		0.720	0.793			0.720	0.793
ADT	ADT 282		AADT 882					

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

Corridor: 6TH ST,NE,SE From BRANDYWINE ST,SE TO CHESAPEAKE ST,SE

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:	6	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:	0	Right Turn:	0	0.0%	Ped. Involved:	0	0.0%
Total Number of Disabling Injuries:	0	Rear End:	0	0.0%	Backing:	2	33.3%
Total Number of NonDisabling Injuries:	0	Side Swiped:	3	50.0%	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:	1	16.7%
Total Number of Motorcycles Involved:	0						

Time of Day	#ACC	%	Day of week	#ACC	%
07:30 ~ 09:30:	0	0.0%	Sunday:	0	0.0%
09:30 ~ 11:30:	0	0.0%	Monday:	1	16.7%
11:30 ~ 13:30:	2	33.3%	Tuesday:	1	16.7%
13:30 ~ 16:00:	1	16.7%	Wednesday:	0	0.0%
16:00 ~ 18:30:	3	50.0%	Thursday:	2	33.3%
18:30 ~ 07:30:	0	0.0%	Friday:	0	0.0%
Unspecified:	0	0.0%	Saturday:	2	33.3%

Weather Condition	#ACC	%	Surface Condition	#ACC	%
Clear:	4	66.7%	Dry:	5	83.3%
Rain:	1	16.7%	Wet:	1	16.7%
Snow:	0	0.0%	Snow/Ice:	0	0.0%
Sleet/Hail:	0	0.0%	Slush:	0	0.0%
Fog/Mist:	1	16.7%	Water/Sand:	0	0.0%
Crosswind/Blowing Sand:	0	0.0%	Repairing:	0	0.0%
Unspecified:	0	0.0%	Unspecified:	0	0.0%

Type of Vehicle	#VEH	%	Accident Severity Type	#ACC	%
Passenger Car:	7	63.6%	Fatal Collision:	0	0.0%
Bus:	3	27.3%	Injury Collision:	0	0.0%
Truck:	1	9.1%	PDO Collision:	6	100.0%
Taxi:	0	0.0%			
Minivan:	0	0.0%	Light Condition	#ACC	%
Police/Emergency Vehicle:	0	0.0%	Daylight:	6	100.0%
Motorcycle/Moped:	0	0.0%	Dawn/Dusk:	0	0.0%
Bicycle:	0	0.0%	Dark(Lighted):	0	0.0%
Fixed Object:	0	0.0%	Dark(Not Lighted):	0	0.0%
Unspecified:	0	0.0%	Dark(Unknown Lighting):	0	0.0%
			Unspecified:	0	0.0%

Contributing Factor	#VEH	%	Pedestrian Actions	#ACC	%
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:	3	27.3%	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:	8	72.7%	Unspecified:	0	0.0%

6 Records are not approved as of 9/16/2013 12:56:34 PM