

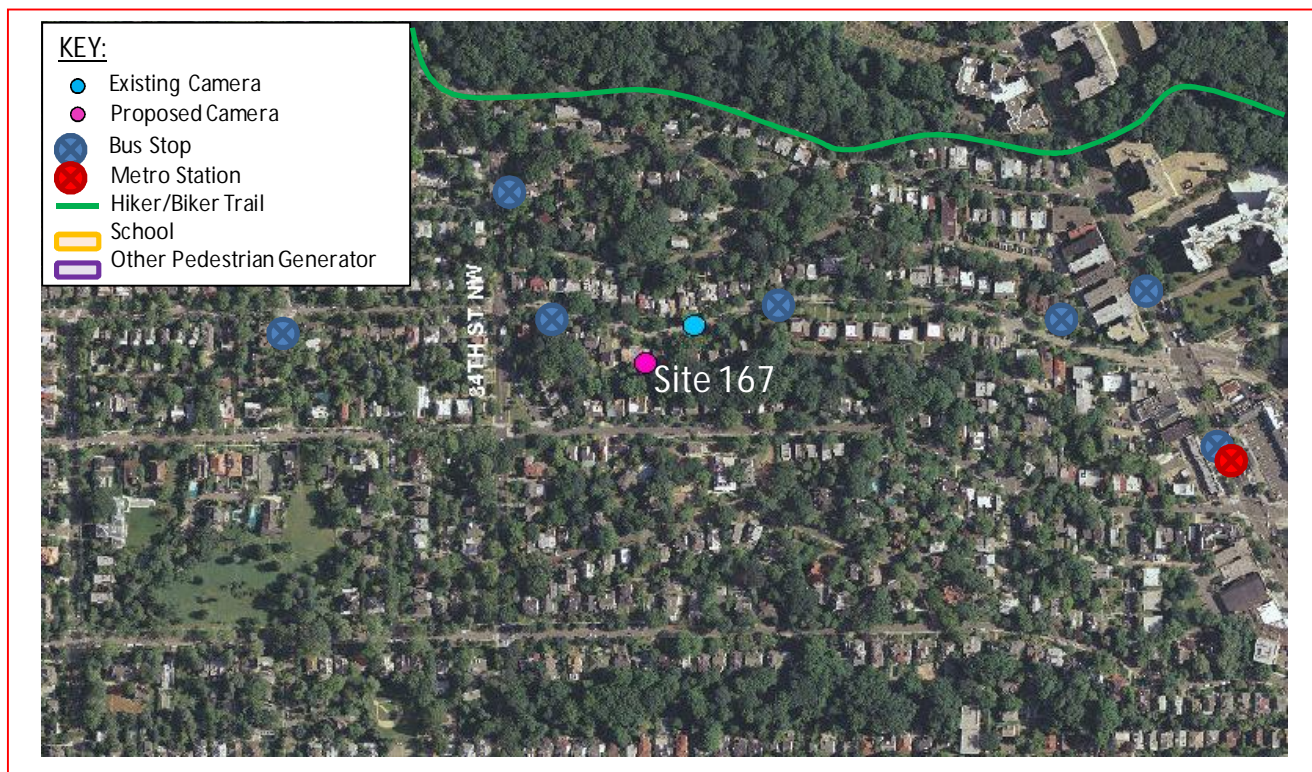


Speed Limit and Safety Nexus Studies for Automated Enforcement Locations in the District of Columbia

3200 Block Porter Street NW

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
2	203	3	3D	Proposed	3200 Block Porter Street Northwest Eastbound



This *proposed* speed camera will be located in Ward 3 at the 3200 block of Porter Street Northwest in the eastbound direction. Porter Street runs between Piney Branch Parkway Northwest to the east and Connecticut Avenue Northwest to the west. The posted speed limit is 20 MPH.

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District Department of Transportation

3200 Block Porter Street NW

Field Assessment Summary

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

- This site is located in a residential area with houses, driveways, on-street parking, and sidewalks with curb and gutter on both sides of the street.
- The existing pavement is in fair condition with drainage inlets on both sides of the street.
- There are traffic calming elements installed in the area including a speed-activated traffic signal and an electronic speeding sign.
- The Melvin C Hazen Trail runs parallel to Porter Street 0.1 miles north.
- There are bus stops on both sides near 34th Street.



Looking Eastbound

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District Department of Transportation

3200 Block Porter Street NW



Looking Westbound

Speed Data Analysis

Posted Speed Limit (MPH)	20
Mean Speed (MPH)	15
85th Percentile Speed (MPH)	19
10 MPH Pace Speed	11-20
ADT	3,789

Both the mean speed and the 85th percentile speed are lower than the posted speed limit. The 85th percentile speed is 1 MPH lower than the posted speed limit.

Crash Data Analysis

Between January 1, 2010 and December 31, 2012 there were a total of 10 crashes at this location. A breakdown of number of crashes by collision type can be found in the chart below. The most common types of

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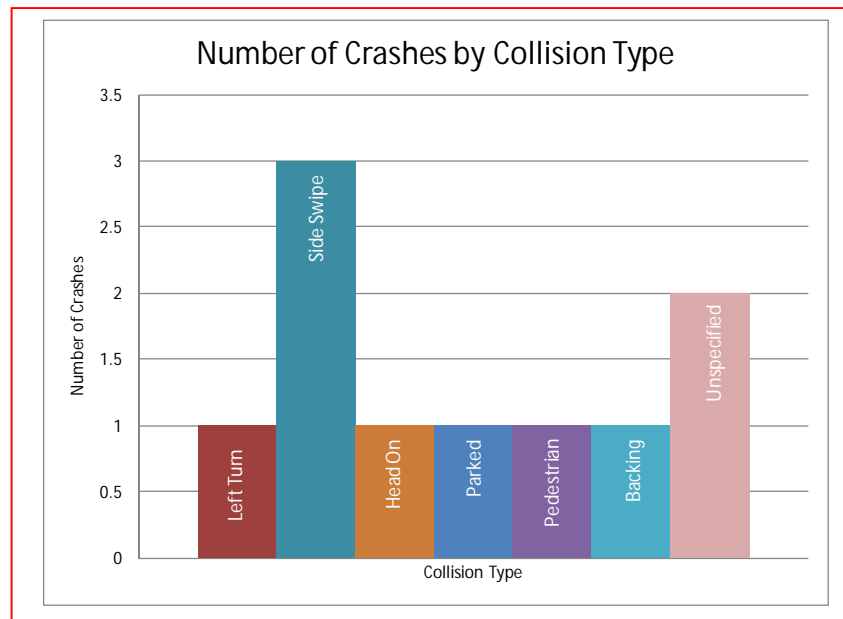


District Department of Transportation

3200 Block Porter Street NW

crashes at this location were Side Swipe (3 crashes) and Unspecified (2 crashes). Furthermore, this site experienced five injury-related crashes.

Severity			Weather			Surface condition			Light Condition		
Total	10										
Fatal	0	0.0%	Clear	9	90.0%	Dry	7	70.0%	Day	9	90.0%
Injury	5	50.0%	Rain	1	10.0%	Wet	2	20.0%	Night	1	10.0%
Taxi	1	10.0%	Snow	0	0.0%	Snow/Ice	0	0.0%			
Bus	3	30.0%									



Safety Nexus

This site presents the following safety considerations which may establish the 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 – This location experienced five injury-related crashes
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 driveways.
 - b. There are multiple bus stops and one Metrorail station in the area which generate pedestrian activity.

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District Department of Transportation

3200 Block Porter Street NW

- c. The Melvin C Hazen Trail runs parallel to Porter Street 0.1 miles to the north of this site which generates pedestrian and bicycle activity.
- d. There are traffic calming elements installed in the area including a speed-activated traffic signal and an electronic speeding sign.

Although the speed data analysis shows travel speeds being lower than the posted speed limit, there were a number of injury-related crashes at this location. Also, the presence of traffic calming elements suggests a prior concern of speeding in the area. Thus, due to the desire for traffic calming on the roadway, along with the site specific characteristics of a residential area, and the pedestrian generators of the bus stops and Metrorail station, 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

3200 block of Porter St NW EB Speed

EB

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
11/07/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	1	4	0	0	0	0	0	0	0	0	0	0	0	0	5
05:00	14	18	3	0	0	0	0	0	0	0	0	0	0	0	35
06:00	14	65	4	0	0	0	0	0	0	0	0	0	0	0	83
07:00	42	175	8	1	0	0	0	0	0	0	0	0	0	0	226
08:00	44	243	24	0	0	0	0	0	0	0	0	0	0	0	311
09:00	37	131	27	3	0	0	0	0	0	0	0	0	0	0	198
10:00	29	115	13	0	0	0	0	0	0	0	0	0	0	0	157
11:00	40	119	15	0	0	0	0	0	0	0	0	0	0	0	174
12 PM	37	147	13	0	1	0	0	0	0	0	0	0	0	0	198
13:00	34	116	15	1	0	0	0	0	0	0	0	0	0	0	166
14:00	36	139	13	1	0	0	0	0	0	0	0	0	0	0	189
15:00	92	179	18	0	1	0	0	0	0	0	0	0	0	0	290
16:00	90	206	18	0	0	0	0	0	0	0	0	0	0	0	314
17:00	101	235	12	2	0	0	0	0	0	0	0	0	0	0	350
18:00	86	193	9	0	0	0	0	0	0	0	0	0	0	0	288
19:00	65	149	8	1	0	0	0	0	0	0	0	0	0	0	223
20:00	42	121	5	1	0	0	0	0	0	0	0	0	0	0	169
21:00	35	111	7	0	1	0	0	0	0	0	0	0	0	0	154
22:00	25	66	12	1	0	0	0	0	0	0	0	0	0	0	104
23:00	11	46	3	0	0	0	0	0	0	0	0	0	0	0	60
Total	875	2578	227	11	3	0	0	0	0	0	0	0	0	0	3694

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

3200 block of Porter St NW EB Speed

EB

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
11/08/13	6	25	5	1	0	0	0	0	0	0	0	0	0	0	37
01:00	12	16	4	1	0	0	0	0	0	0	0	0	0	0	33
02:00	3	10	1	1	0	0	0	0	0	0	0	0	0	0	15
03:00	1	6	1	0	0	0	0	0	0	0	0	0	0	0	8
04:00	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
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	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	24	57	11	3	0	0	0	0	0	0	0	0	0	0	95
Grand Total	899	2635	238	14	3	0	0	0	0	0	0	0	0	0	3789

15th Percentile : 8 MPH
50th Percentile : 14 MPH
85th Percentile : 19 MPH
95th Percentile : 21 MPH

Stats
Mean Speed(Average) : 15 MPH
10 MPH Pace Speed : 11-20 MPH
Number in Pace : 2608
Percent in Pace : 68.8%
Number of Vehicles > 20 MPH : 353
Percent of Vehicles > 20 MPH : 9.3%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

3200 block of Porter St NW EB Volume

Start Time	Thu A.M.	07-Nov-13 P.M.	Fri A.M.	08-Nov-13 P.M.	Sat A.M.	09-Nov-13 P.M.	Daily Average	
							A.M.	P.M.
12:00	*	49	15	*	*	*	15	49
12:15	*	57	7	*	*	*	7	57
12:30	*	45	8	*	*	*	8	45
12:45	*	47	7	*	*	*	7	47
01:00	*	44	13	*	*	*	13	44
01:15	*	54	5	*	*	*	5	54
01:30	*	36	9	*	*	*	9	36
01:45	*	32	6	*	*	*	6	32
02:00	*	37	5	*	*	*	5	37
02:15	*	50	4	*	*	*	4	50
02:30	*	44	3	*	*	*	3	44
02:45	*	58	3	*	*	*	3	58
03:00	*	65	3	*	*	*	3	65
03:15	*	71	3	*	*	*	3	71
03:30	*	81	2	*	*	*	2	81
03:45	*	73	0	*	*	*	0	73
04:00	*	79	2	*	*	*	2	79
04:15	2	76	*	*	*	*	2	76
04:30	1	82	*	*	*	*	1	82
04:45	2	77	*	*	*	*	2	77
05:00	6	109	*	*	*	*	6	109
05:15	8	88	*	*	*	*	8	88
05:30	6	72	*	*	*	*	6	72
05:45	15	81	*	*	*	*	15	81
06:00	10	68	*	*	*	*	10	68
06:15	13	80	*	*	*	*	13	80
06:30	28	77	*	*	*	*	28	77
06:45	32	63	*	*	*	*	32	63
07:00	37	69	*	*	*	*	37	69
07:15	50	51	*	*	*	*	50	51
07:30	54	45	*	*	*	*	54	45
07:45	85	58	*	*	*	*	85	58
08:00	90	51	*	*	*	*	90	51
08:15	65	44	*	*	*	*	65	44
08:30	83	37	*	*	*	*	83	37
08:45	73	37	*	*	*	*	73	37
09:00	58	46	*	*	*	*	58	46
09:15	54	32	*	*	*	*	54	32
09:30	44	30	*	*	*	*	44	30
09:45	42	46	*	*	*	*	42	46
10:00	45	29	*	*	*	*	45	29
10:15	38	28	*	*	*	*	38	28
10:30	34	32	*	*	*	*	34	32
10:45	40	15	*	*	*	*	40	15
11:00	45	18	*	*	*	*	45	18
11:15	34	14	*	*	*	*	34	14
11:30	53	22	*	*	*	*	53	22
11:45	42	6	*	*	*	*	42	6
Total	1189	2505	95	0	0	0	1284	2505
Combined Total	3694		95		0		3789	
Peak	07:45	04:30	12:00				07:45	04:30
Vol.	323	356	37				323	356
P.H.F.	0.897	0.817	0.617				0.897	0.817
ADT		ADT 3,789	AADT 3,789					

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

Corridor: PORTER ST,NW From THIRTIETH ST,NW TO THIRTY FOURTH ST,NW

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

Prepared By: Rahul Jain

Prepared Date: 9/15/2013

Total Number of Accident:	10	Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Fatalities:	0	Right Angle:	0	0.0%	Fixed Object:	0	0.0%
Total Number of Injuries:	9	Left Turn:	1	10.0%	Ran Off Road:	0	0.0%
Total Number of Disabling Injuries:	0	Right Turn:	0	0.0%	Ped. Involved:	1	10.0%
Total Number of NonDisabling Injuries:	5	Rear End:	0	0.0%	Backing:	1	10.0%
Total Number of Pedestrians Involved:	1	Side Swiped:	3	30.0%	Non Collision:	0	0.0%
Total Number of Bicycles Involved:	0	Head On:	1	10.0%	Under/Over Ride:	0	0.0%
Total Number of Motorcycles Involved:	0	Parked:	1	10.0%	Unspecified:	2	20.0%

Time of Day	#ACC	%	Day o fweek	#ACC	%
07:30 ~ 09:30:	2	20.0%	Sunday:	0	0.0%
09:30 ~ 11:30:	2	20.0%	Monday:	1	10.0%
11:30 ~ 13:30:	0	0.0%	Tuesday:	1	10.0%
13:30 ~ 16:00:	2	20.0%	Wednesday:	3	30.0%
16:00 ~18:30:	2	20.0%	Thursday:	4	40.0%
18:30 ~ 07:30:	2	20.0%	Friday:	0	0.0%
Unspecified:	0	0.0%	Saturday:	1	10.0%

Weather Condition	#ACC	%	Surface Condition	#ACC	%
Clear:	9	90.0%	Dry:	7	70.0%
Rain:	1	10.0%	Wet:	2	20.0%
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:	1	10.0%

Type of Vehicle	#VEH	%	Accident Severity Type	#ACC	%
Passenger Car:	14	70.0%	Fatal Collision:	0	0.0%
Bus:	3	15.0%	Injury Collision:	5	50.0%
Truck:	1	5.0%	PDO Collision:	5	50.0%
Taxi:	1	5.0%	Light Condition	#ACC	%
Minivan:	0	0.0%	Daylight:	9	90.0%
Police/Emergency Vehicle:	0	0.0%	Dawn/Dusk:	0	0.0%
Motorcycle/Moped:	0	0.0%	Dark(Lighted):	1	10.0%
Bicycle:	0	0.0%	Dark(Not Lighted):	0	0.0%
Fixed Object:	0	0.0%	Dark(Unknown Lighting):	0	0.0%
Unspecified:	1	5.0%	Unspecified:	0	0.0%

Contributing Factor	#VEH	%	Pedestrian Actions	#ACC	%
Driver: Speed:	0	0.0%	In Crosswalk with Signal:	1	100.0%
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:	6	30.0%	In Unmarked Crosswalk:	0	0.0%
Vehicle:	1	5.0%	Not in Crosswalk:	0	0.0%
Roadway:	0	0.0%	From Between Parked Cars:	0	0.0%
Unspecified:	13	65.0%	Unspecified:	0	0.0%

5 Records are not approved as of 9/15/2013 9:20:10 PM