

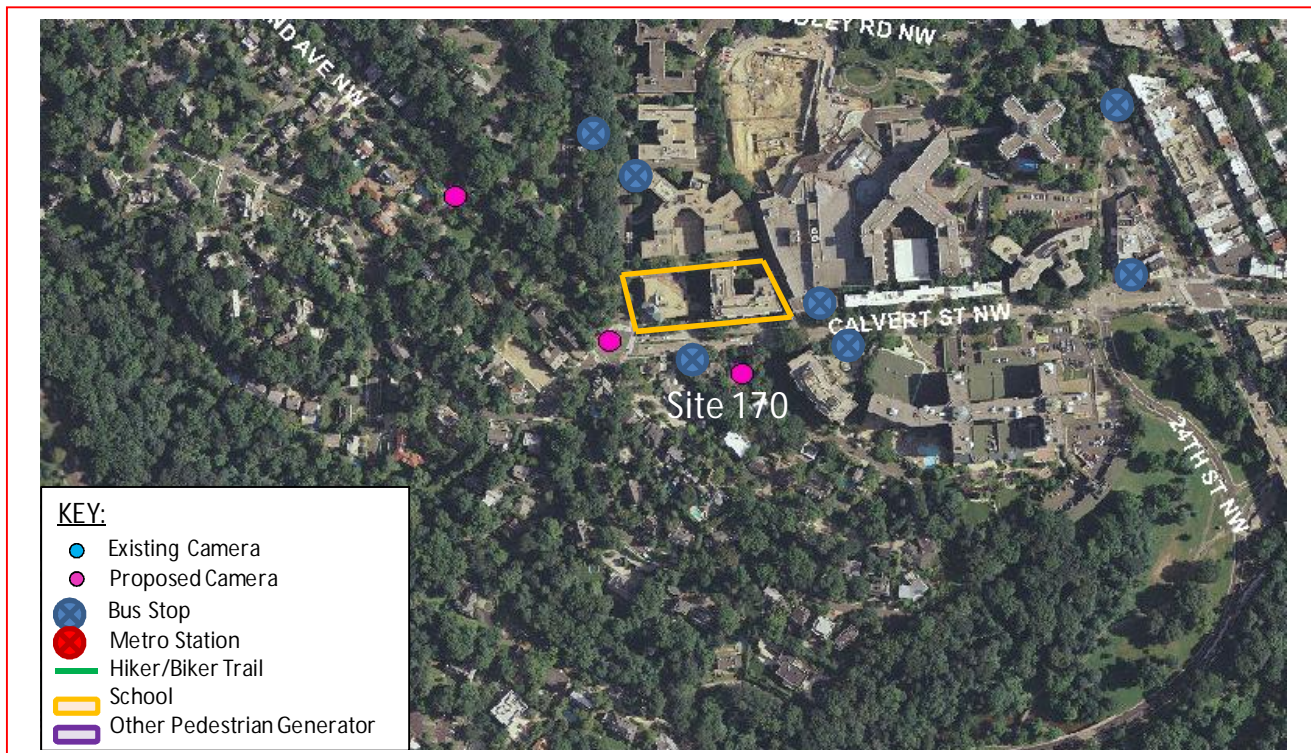


Speed Limit and Safety Nexus Studies for Automated Enforcement Locations in the District of Columbia

2800 Block Calvert Street NW

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
2	204	3	3C	Proposed	2800 Block Calvert Street Northwest Eastbound



This *proposed* speed camera will be located in Ward 3 at the 2800 block of Calvert Street Northwest in the eastbound direction. Calvert Street runs from 29th Street Northwest in the west to Lanier Place Northwest in the east where it becomes Adams Mill Road Northwest. The posted speed limit is 25 MPH.

W3 - 375





District Department of Transportation

2800 Block Calvert Street NW

Field Assessment Summary

Calvert Street is assumed to run in the North-South direction and is classified as a minor arterial. Calvert Street has two travel lanes in the westbound direction and one travel lane with a bicycle lane in the eastbound direction. This site has the following characteristics:

- This site is located in a residential area with houses and driveways on both sides of the street.
- There is one school in the area: Oyster Adams Bilingual School.
- There is a bicycle lane in the eastbound direction.
- There is parking on the south side of the street and sidewalks with a grass buffer on both sides of the street. There is a grassy median with curb and gutter drainage.
- There are bus stops on both sides at the north end of the block as well as others in the surrounding area.
- The intersection with Calvert Street to the south is signalized with crosswalks on all legs. The intersection with 30th Street NW to the north is stop controlled with crosswalks on the south and west legs.
- The existing pavement is in good condition.



Looking West

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District Department of Transportation

2800 Block Calvert Street NW



Looking East

Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	19
85th Percentile Speed (MPH)	25
10 MPH Pace Speed	18-27
ADT	5,924

The mean speed is lower than the posted speed limit in both directions and the 85th percentile speed is the same as 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 six crashes at this location. A breakdown of collision type can be found in the chart on the next page. The most common type of collision at this location was Rear End with two crashes. Furthermore, the site experienced four injury-related crashes.

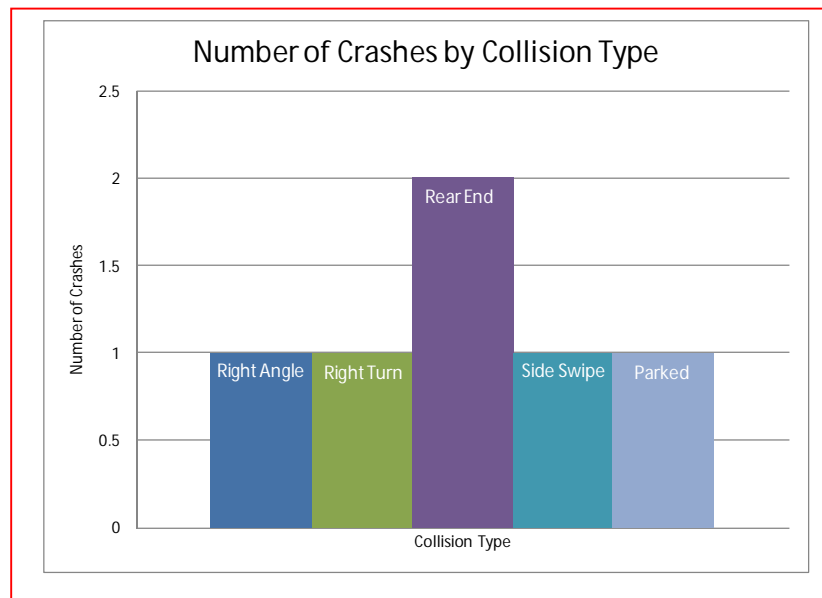
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District Department of Transportation

2800 Block Calvert Street NW

Severity			Weather			Surface condition			Light Condition		
Total	6										
Fatal	0	0.0%	Clear	6	100.0%	Dry	5	83.3%	Day	5	83.3%
Injury	4	66.7%	Rain	0	0.0%	Wet	1	16.7%	Night	1	16.7%
Taxi	2	33.3%	Snow	0	0.0%	Snow/Ice	0	0.0%			
Bus	0	0.0%									



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 or the same as the posted speed limit.
2. Crash Data – This location experienced four 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 houses and driveways on both sides of the street.
 - b. There is one school in the area: Oyster Adams Bilingual School.
 - c. There is a bicycle lane in the eastbound direction.
 - d. There are bus stops on the block and in the surrounding area which generate pedestrian activity.

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District Department of Transportation

2800 Block Calvert Street NW

Although the speed data analysis showed the mean and 85th percentile speeds to be lower than or the same as the posted speed limit, due to the elevated number of injury-related crashes, the specific site characteristics, and pedestrian generators, there is a nexus between traffic safety and the speed camera at this location.

W3 - 379

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

2800 block of Calvert 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	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	26	95	212	55	5	0	0	0	0	0	0	0	0	0	393
08:00	153	305	266	49	4	0	0	0	0	0	0	0	0	0	777
09:00	78	150	246	57	7	1	0	0	0	0	0	0	0	0	539
10:00	22	73	170	51	2	0	0	0	0	0	0	0	0	0	318
11:00	25	81	156	34	1	0	0	0	0	0	0	0	0	0	297
12 PM	34	76	144	37	2	0	0	0	0	0	0	0	0	0	293
13:00	23	59	145	27	2	0	0	0	0	0	0	0	0	0	256
14:00	20	59	154	42	1	0	0	0	0	0	0	0	0	0	276
15:00	34	104	182	63	1	0	0	0	0	0	0	0	0	0	384
16:00	34	49	181	78	11	1	0	0	0	0	0	0	0	0	354
17:00	20	76	223	89	7	0	0	0	0	0	0	0	0	0	415
18:00	72	65	233	101	6	1	0	0	0	0	0	0	0	0	478
19:00	47	21	117	91	17	1	0	0	0	0	0	0	0	0	294
20:00	31	18	77	72	6	0	1	0	0	0	0	0	0	0	205
21:00	23	12	62	41	4	0	0	0	0	0	0	0	0	0	142
22:00	20	12	49	52	3	0	0	0	0	0	0	0	0	0	136
23:00	18	15	34	19	2	0	0	0	0	0	0	0	0	0	88
Total	680	1270	2651	958	81	4	1	0	0	0	0	0	0	0	5645

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

2800 block of Calvert 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	7	5	16	12	1	0	0	0	0	0	0	0	0	0	41
01:00	6	2	19	4	1	0	0	0	0	0	0	0	0	0	32
02:00	1	1	3	3	0	0	0	0	0	0	0	0	0	0	8
03:00	1	0	3	1	0	0	0	0	0	0	0	0	0	0	5
04:00	3	3	6	4	1	0	0	0	0	0	0	0	0	0	17
05:00	11	8	13	15	2	0	0	0	0	0	0	0	0	0	49
06:00	32	10	48	33	4	0	0	0	0	0	0	0	0	0	127
07:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	61	29	108	72	9	0	0	0	0	0	0	0	0	0	279
Grand Total	741	1299	2759	1030	90	4	1	0	0	0	0	0	0	0	5924

15th Percentile : 10 MPH
50th Percentile : 20 MPH
85th Percentile : 25 MPH
95th Percentile : 28 MPH

Stats
Mean Speed(Average) : 19 MPH
10 MPH Pace Speed : 18-27 MPH
Number in Pace : 3266
Percent in Pace : 55.1%
Number of Vehicles > 25 MPH : 1101
Percent of Vehicles > 25 MPH : 18.6%

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1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

2800 block of Calvert 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	*	77	8	*	*	*	8	77
12:15	*	76	17	*	*	*	17	76
12:30	*	59	10	*	*	*	10	59
12:45	*	81	6	*	*	*	6	81
01:00	*	77	8	*	*	*	8	77
01:15	*	53	7	*	*	*	7	53
01:30	*	62	9	*	*	*	9	62
01:45	*	64	8	*	*	*	8	64
02:00	*	66	1	*	*	*	1	66
02:15	*	81	1	*	*	*	1	81
02:30	*	56	3	*	*	*	3	56
02:45	*	73	3	*	*	*	3	73
03:00	*	69	1	*	*	*	1	69
03:15	*	121	1	*	*	*	1	121
03:30	*	106	2	*	*	*	2	106
03:45	*	88	1	*	*	*	1	88
04:00	*	93	7	*	*	*	7	93
04:15	*	69	0	*	*	*	0	69
04:30	*	89	4	*	*	*	4	89
04:45	*	103	6	*	*	*	6	103
05:00	*	94	3	*	*	*	3	94
05:15	*	94	14	*	*	*	14	94
05:30	*	112	11	*	*	*	11	112
05:45	*	115	21	*	*	*	21	115
06:00	*	126	14	*	*	*	14	126
06:15	*	110	29	*	*	*	29	110
06:30	*	125	37	*	*	*	37	125
06:45	*	117	47	*	*	*	47	117
07:00	53	76	*	*	*	*	53	76
07:15	64	78	*	*	*	*	64	78
07:30	114	71	*	*	*	*	114	71
07:45	162	69	*	*	*	*	162	69
08:00	175	55	*	*	*	*	175	55
08:15	210	49	*	*	*	*	210	49
08:30	193	58	*	*	*	*	193	58
08:45	199	43	*	*	*	*	199	43
09:00	157	44	*	*	*	*	157	44
09:15	148	30	*	*	*	*	148	30
09:30	134	31	*	*	*	*	134	31
09:45	100	37	*	*	*	*	100	37
10:00	109	34	*	*	*	*	109	34
10:15	54	38	*	*	*	*	54	38
10:30	82	42	*	*	*	*	82	42
10:45	73	22	*	*	*	*	73	22
11:00	75	33	*	*	*	*	75	33
11:15	75	17	*	*	*	*	75	17
11:30	64	17	*	*	*	*	64	17
11:45	83	21	*	*	*	*	83	21
Total	2324	3321	279	0	0	0	2603	3321
Combined Total	5645		279		0		5924	
Peak	08:00	06:00	06:00				08:00	06:00
Vol.	777	478	127				777	478
P.H.F.	0.925	0.948	0.676				0.925	0.948
ADT	ADT 5,924		AADT 5,924					

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

Corridor: CALVERT ST,NW From TWENTY EIGHTH ST,NW TO CLEVELAND AVE,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:	6	Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Fatalities:	0	Right Angle:	1	16.7%	Fixed Object:	0	0.0%
Total Number of Injuries:	4	Left Turn:	0	0.0%	Ran Off Road:	0	0.0%
Total Number of Disabling Injuries:	0	Right Turn:	1	16.7%	Ped. Involved:	0	0.0%
Total Number of NonDisabling Injuries:	2	Rear End:	2	33.3%	Backing:	0	0.0%
Total Number of Pedestrians Involved:	0	Side Swiped:	1	16.7%	Non Collision:	0	0.0%
Total Number of Bicycles Involved:	2	Head On:	0	0.0%	Under/Over Ride:	0	0.0%
Total Number of Motorcycles Involved:	0	Parked:	1	16.7%	Unspecified:	0	0.0%

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

Weather Condition	#ACC	%	Surface Condition	#ACC	%
Clear:	6	100.0%	Dry:	5	83.3%
Rain:	0	0.0%	Wet:	1	16.7%
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%

Type of Vehicle	#VEH	%	Accident Severity Type	#ACC	%
Passenger Car:	8	66.7%	Fatal Collision:	0	0.0%
Bus:	0	0.0%	Injury Collision:	4	66.7%
Truck:	0	0.0%	PDO Collision:	2	33.3%
Taxi:	2	16.7%	Light Condition	#ACC	%
Minivan:	0	0.0%	Daylight:	5	83.3%
Police/Emergency Vehicle:	0	0.0%	Dawn/Dusk:	0	0.0%
Motorcycle/Moped:	0	0.0%	Dark(Lighted):	1	16.7%
Bicycle:	2	16.7%	Dark(Not Lighted):	0	0.0%
Fixed Object:	0	0.0%	Dark(Unknown Lighting):	0	0.0%
Unspecified:	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	25.0%	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:	9	75.0%	Unspecified:	0	0.0%

4 Records are not approved as of 9/15/2013 11:58:13 AM