



District Department of Transportation

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

3000 Block Cleveland Avenue NW

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
2	204	3	3C	Proposed	3000 Block Cleveland Avenue Northwest Southbound



This *proposed* speed camera will be located in Ward 3 at the 3000 block of Cleveland Avenue Northwest in the southbound direction. Cleveland Avenue runs between Calvert Street Northwest to the east and 34th Street Northwest to the west. The posted speed limit is 25 MPH.

W3 - 395





District Department of Transportation
3000 Block Cleveland Avenue NW

Field Assessment Summary

Cleveland Avenue is assumed to run in a North-South direction and is classified as a minor arterial. Cleveland Avenue has one travel lane in each direction. This site has the following characteristics:

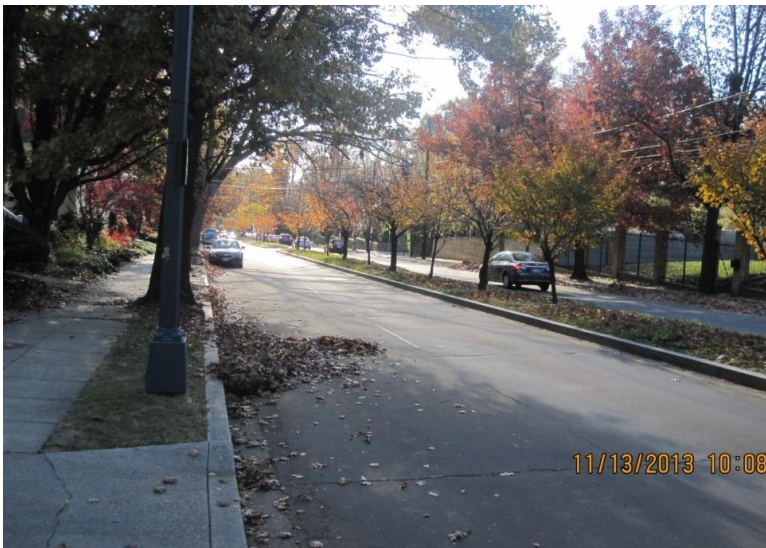
- This site is located in a residential area with houses and driveways on both sides of the street.
- There is one school in the area: Oyster Adams Bilingual School.
- There is on street parking and sidewalk with a grass buffer on both sides of the street.
- The drainage type is curb and gutter and the existing pavement is in fair condition.



Looking South



District Department of Transportation
3000 Block Cleveland Avenue NW



Looking South

Study Area Data Summary

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	23
85th Percentile Speed (MPH)	27
10 MPH Pace Speed	19-28
ADT	4,586

The mean speed is 6 MPH lower than the posted speed limit and the 85th percentile speed is the same as the posted speed limit at this location.

Crash Data Analysis

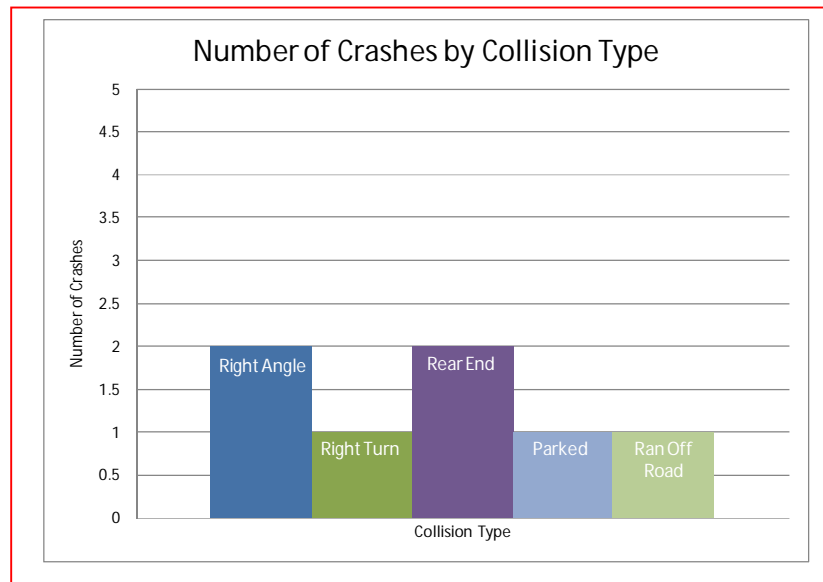
From the Accident Summary Report provided for the dates between January 1, 2010 and December 31, 2012, there were a total of seven crashes at this location. A breakdown of collision type can be found in the chart on the next page. The most common type of collision at this location was Rear End and Right Angle with two crashes each. Each of the other collision types has one crash. Furthermore, the site experienced four injury-related crashes.

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District Department of Transportation
3000 Block Cleveland Avenue NW

Severity			Weather			Surface condition			Light Condition		
Total	7										
Fatal	0	0.0%	Clear	7	100.0%	Dry	7	100.0%	Day	3	42.9%
Injury	4	57.1%	Rain	0	0.0%	Wet	0	0.0%	Night	4	57.1%
Taxi	2	28.6%	Snow	0	0.0%	Snow/Ice	0	0.0%			
Bus	2	28.6%									



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 85th percentile speed limit is higher than 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 many apartment buildings and houses on both sides of the street and in the surrounding area.
 - b. This site is located near one school: Oyster Adams Bilingual School.
 - c. There are multiple bus stops in the surrounding area which generate pedestrian activity.

Due to the elevated 85th percentile speeds, the number of injury-related crashes, the specific site characteristics of a residential area, and the pedestrian generators, there is a nexus between traffic safety and the speed camera at this location.

W3 - 398

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

3000 Block of Cleveland Ave NW, SB Speed

SB

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
12/11/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	0	6	53	21	1	0	0	0	0	0	0	0	0	0	81
23:00	7	6	25	16	2	0	0	0	0	0	0	0	0	0	56
Total	7	12	78	37	3	0	0	0	0	0	0	0	0	0	137

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3000 Block of Cleveland Ave NW, SB Speed

SB

Start Time	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
12/12/13	1	6	12	12	2	0	0	0	0	0	0	0	0	0	33
01:00	0	2	7	6	0	0	0	0	0	0	0	0	0	0	15
02:00	0	0	3	2	1	0	0	0	0	0	0	0	0	0	6
03:00	1	2	5	0	0	0	0	0	0	0	0	0	0	0	8
04:00	0	1	5	3	1	0	0	0	0	0	0	0	0	0	10
05:00	0	5	15	11	3	1	0	0	0	0	0	0	0	0	35
06:00	0	6	53	21	4	0	0	0	0	0	0	0	0	0	84
07:00	3	22	189	71	5	0	0	0	0	0	0	0	0	0	290
08:00	11	90	367	133	6	0	0	0	0	0	0	0	0	0	607
09:00	9	65	276	102	7	1	0	0	0	0	0	0	0	0	460
10:00	2	16	142	79	7	0	0	0	0	0	0	0	0	0	246
11:00	4	19	134	73	3	0	0	0	0	0	0	0	0	0	233
12 PM	1	25	124	68	3	0	0	0	0	0	0	0	0	0	221
13:00	3	20	114	64	6	0	0	0	0	0	0	0	0	0	207
14:00	3	34	120	55	3	0	0	0	0	0	0	0	0	0	215
15:00	3	31	166	47	1	0	0	0	0	0	0	0	0	0	248
16:00	4	37	159	54	4	0	0	0	0	0	0	0	0	0	258
17:00	0	41	253	61	7	1	0	0	0	0	0	0	0	0	363
18:00	10	67	273	82	6	0	0	0	0	0	0	0	0	0	438
19:00	2	30	120	54	7	0	0	0	0	0	0	0	0	0	213
20:00	1	9	89	46	3	0	0	0	0	0	0	0	0	0	148
21:00	3	2	45	11	0	0	0	0	0	0	0	0	0	0	61
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	61	530	2671	1055	79	3	0	0	0	0	0	0	0	0	4399
Grand Total	68	542	2749	1092	82	3	0	0	0	0	0	0	0	0	4536

15th Percentile : 18 MPH
50th Percentile : 22 MPH
85th Percentile : 27 MPH
95th Percentile : 29 MPH

Stats
Mean Speed(Average) : 23 MPH
10 MPH Pace Speed : 19-28 MPH
Number in Pace : 3379
Percent in Pace : 74.5%
Number of Vehicles > 25 MPH : 1284
Percent of Vehicles > 25 MPH : 28.3%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

3000 Block of Cleveland Ave NW, SB Volume

Start Time	Wed A.M.	11-Dec-13 P.M.	Thu A.M.	12-Dec-13 P.M.	Fri A.M.	13-Dec-13 P.M.	Daily Average	
							A.M.	P.M.
12:00	*	*	15	61	*	*	15	61
12:15	*	*	4	54	*	*	4	54
12:30	*	*	7	59	*	*	7	59
12:45	*	*	7	47	*	*	7	47
01:00	*	*	2	46	*	*	2	46
01:15	*	*	7	50	*	*	7	50
01:30	*	*	3	55	*	*	3	55
01:45	*	*	3	56	*	*	3	56
02:00	*	*	1	48	*	*	1	48
02:15	*	*	1	50	*	*	1	50
02:30	*	*	1	52	*	*	1	52
02:45	*	*	3	65	*	*	3	65
03:00	*	*	2	60	*	*	2	60
03:15	*	*	2	58	*	*	2	58
03:30	*	*	1	71	*	*	1	71
03:45	*	*	3	59	*	*	3	59
04:00	*	*	4	57	*	*	4	57
04:15	*	*	2	57	*	*	2	57
04:30	*	*	3	71	*	*	3	71
04:45	*	*	1	73	*	*	1	73
05:00	*	*	5	77	*	*	5	77
05:15	*	*	7	92	*	*	7	92
05:30	*	*	7	84	*	*	7	84
05:45	*	*	16	110	*	*	16	110
06:00	*	*	15	122	*	*	15	122
06:15	*	*	22	102	*	*	22	102
06:30	*	*	22	110	*	*	22	110
06:45	*	*	25	104	*	*	25	104
07:00	*	*	50	63	*	*	50	63
07:15	*	*	44	66	*	*	44	66
07:30	*	*	87	42	*	*	87	42
07:45	*	*	109	42	*	*	109	42
08:00	*	*	128	43	*	*	128	43
08:15	*	*	157	32	*	*	157	32
08:30	*	*	153	39	*	*	153	39
08:45	*	*	169	34	*	*	169	34
09:00	*	*	131	32	*	*	131	32
09:15	*	*	131	29	*	*	131	29
09:30	*	40	107	0	*	*	107	20
09:45	*	30	91	*	*	*	91	30
10:00	*	23	86	*	*	*	86	23
10:15	*	21	67	*	*	*	67	21
10:30	*	25	51	*	*	*	51	25
10:45	*	12	42	*	*	*	42	12
11:00	*	29	56	*	*	*	56	29
11:15	*	10	55	*	*	*	55	10
11:30	*	10	61	*	*	*	61	10
11:45	*	7	61	*	*	*	61	7
Total	0	207	2027	2372	0	0	2027	2559
Combined Total	207		4399		0		4586	
Peak Vol.		09:30 114	08:15 610	05:45 444			08:15 610	05:45 444
P.H.F.		0.713	0.902	0.910			0.902	0.910
ADT		ADT 4,586	AADT 4,586					

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

Corridor: CLEVELAND AVE,NW From CALVERT ST,NW TO THIRTY FIRST ST (SOUTH),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:	7	Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Fatalities:	0	Right Angle:	2	28.6%	Fixed Object:	0	0.0%
Total Number of Injuries:	5	Left Turn:	0	0.0%	Ran Off Road:	1	14.3%
Total Number of Disabling Injuries:	0	Right Turn:	1	14.3%	Ped. Involved:	0	0.0%
Total Number of NonDisabling Injuries:	2	Rear End:	2	28.6%	Backing:	0	0.0%
Total Number of Pedestrians Involved:	0	Side Swiped:	0	0.0%	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	14.3%	Unspecified:	0	0.0%

Time of Day	#ACC	%	Day o fweek	#ACC	%
07:30 ~ 09:30:	0	0.0%	Sunday:	1	14.3%
09:30 ~ 11:30:	1	14.3%	Monday:	0	0.0%
11:30 ~ 13:30:	0	0.0%	Tuesday:	0	0.0%
13:30 ~ 16:00:	0	0.0%	Wednesday:	2	28.6%
16:00 ~18:30:	2	28.6%	Thursday:	1	14.3%
18:30 ~ 07:30:	4	57.1%	Friday:	0	0.0%
Unspecified:	0	0.0%	Saturday:	3	42.9%

Weather Condition	#ACC	%	Surface Condition	#ACC	%
Clear:	7	100.0%	Dry:	7	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%

Type of Vehicle	#VEH	%	Accident Severity Type	#ACC	%
Passenger Car:	11	64.7%	Fatal Collision:	0	0.0%
Bus:	2	11.8%	Injury Collision:	4	57.1%
Truck:	0	0.0%	PDO Collision:	3	42.9%
Taxi:	2	11.8%	Light Condition	#ACC	%
Minivan:	0	0.0%	Daylight:	3	42.9%
Police/Emergency Vehicle:	0	0.0%	Dawn/Dusk:	0	0.0%
Motorcycle/Moped:	0	0.0%	Dark(Lighted):	4	57.1%
Bicycle:	2	11.8%	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:	1	5.9%	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	11.8%	In Unmarked Crosswalk:	0	0.0%
Vehicle:	1	5.9%	Not in Crosswalk:	0	0.0%
Roadway:	0	0.0%	From Between Parked Cars:	0	0.0%
Unspecified:	13	76.5%	Unspecified:	0	0.0%

5 Records are not approved as of 9/15/2013 9:30:21 PM