



District Department of Transportation

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

3100 Block Bladensburg Road NE

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
5	503	5	5A	Proposed	3100 Block Bladensburg Road Northeast Northeast-bound



This *proposed* speed camera will be located in Ward 5 on the 3100 block of Bladensburg Road Northeast in the northeast bound direction. Bladensburg Road runs between Fort Lincoln Drive Northeast to the northeast and Benning Road Northeast to the southwest. The posted speed limit is 30 MPH.

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District Department of Transportation

3100 Block Bladensburg Road NE

Field Assessment Summary

Bladensburg Road is assumed to run in the northeast-southwest direction, and is classified as a minor arterial. Bladensburg Road has three travel lanes in each direction. This site has the following characteristics:

- This is a residential and commercial area with apartments and businesses.
- There is one school in the area: Lincoln Elementary School. Fort Lincoln Park is also in the area.
- There is a grassy median with two breaks for turning into entrances.
- There is sidewalk and on-street parking on both sides of the street and a midblock crosswalk.
- There is a traffic signal with pedestrian signals and crosswalks at Banneker Drive.
- The pavement is in good condition and there is curb and gutter with drainage inlets.
- There are northeast-bound bus stops at Banneker Drive and 35th Street. There is one midblock bus stop in each direction.



Looking Northeast-bound

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District Department of Transportation

3100 Block Bladensburg Road NE



Looking Southwest-bound

Speed Data Analysis

Posted Speed Limit (MPH)	30
Mean Speed (MPH)	17
85th Percentile Speed (MPH)	22
10 MPH Pace Speed (MPH)	14-23
ADT	6,633

The mean speed is lower than the posted speed limit by 13 MPH and the 85th percentile speed is lower than the posted speed by 8 MPH 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 24 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 seven crashes. The other collision types had four crashes or less. Furthermore, this site experienced a high frequency (10 crashes) of injury-related crashes.

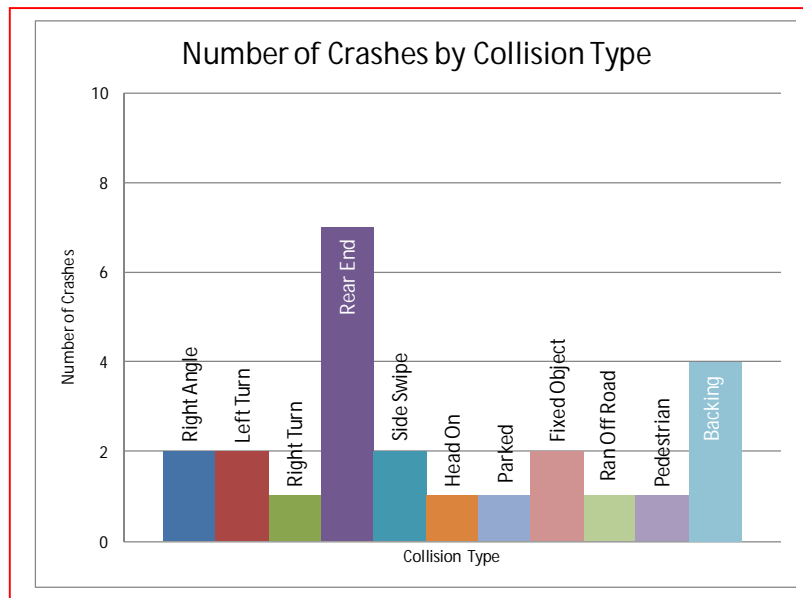
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District Department of Transportation

3100 Block Bladensburg Road NE

Severity			Weather			Surface condition			Light Condition		
Total	24										
Fatal	0	0.0%	Clear	19	79.2%	Dry	19	79.2%	Day	21	87.5%
Injury	10	41.7%	Rain	4	16.7%	Wet	5	20.8%	Night	3	12.5%
Truck	6	25.0%	Fog/Mist	1	4.2%	Snow/Ice	0	0.0%			
Bus	3	12.5%									



The Bladensburg Road Corridor is listed as one of the top ten high frequency crash corridors from 2009 to 2011, according to the report *TRAFFIC SAFETY STATISTICS REPORT FOR THE DISTRICT OF COLUMBIA (2009-2011)*¹.

Safety Nexus

This site presents the following safety considerations which may support the 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 – This site experienced a high frequency (10 crashes) of injury-related crashes. The Bladensburg Road Corridor is listed as one of the top ten high frequency crash corridors from 2009 to 2011.

¹ DDOT, *TRAFFIC SAFETY STATISTICS REPORT FOR THE DISTRICT OF COLUMBIA (2009-2011)*, pg.80.



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3100 Block Bladensburg Road NE

3. Field Assessment – The following site characteristics suggest a need for a safer travel environment:
 - a. This is a residential and commercial area with apartments and businesses.
 - b. There is one school in the area, Lincoln Elementary School.
 - c. Fort Lincoln Park is in the area which generates pedestrian and bicycle activity.
 - d. There are multiple bus stops in the area which generate pedestrian activity.
 - e. There is on-street parking on both sides of the street.

Although the speed data analysis showed the mean and 85th percentile speeds to be lower than the posted speed limit, due to the elevated number of injury-related crashes, the specific site characteristics, 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

3100 block of Bladensburg Rd NE NEB Speed

NEB															
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
11/15/13	0	15	13	1	0	0	0	0	0	0	0	0	0	0	29
01:00	3	10	18	4	0	0	0	0	0	0	0	0	0	0	35
02:00	1	15	11	2	0	1	0	0	0	0	0	0	0	0	30
03:00	1	15	12	1	1	0	0	0	0	0	0	0	0	0	30
04:00	2	16	14	6	0	0	0	0	0	0	0	0	0	0	38
05:00	3	26	42	10	2	0	0	0	0	0	0	0	0	0	83
06:00	25	55	58	10	3	0	0	0	0	0	0	0	0	0	151
07:00	22	74	117	16	2	0	0	0	0	0	0	0	0	0	231
08:00	23	109	85	19	2	0	0	0	0	0	0	0	0	0	238
09:00	41	143	92	10	0	0	0	0	0	0	0	0	0	0	286
10:00	76	173	94	9	1	0	0	0	0	0	0	0	0	0	353
11:00	90	195	103	7	0	0	0	0	0	0	0	0	0	0	395
12 PM	77	257	144	9	1	0	0	0	0	0	0	0	0	0	488
13:00	86	262	116	12	4	0	0	0	0	0	0	0	0	0	480
14:00	102	232	112	13	0	0	0	0	0	0	0	0	0	0	459
15:00	60	244	184	29	2	0	0	0	0	0	0	0	0	0	519
16:00	90	269	219	22	3	0	0	0	0	0	0	0	0	0	603
17:00	53	246	207	24	2	0	0	0	0	0	0	0	0	0	532
18:00	61	228	180	23	2	0	0	0	0	0	0	0	0	0	494
19:00	38	149	129	12	3	0	0	0	0	0	0	0	0	0	331
20:00	15	106	105	8	2	0	0	0	0	0	0	0	0	0	236
21:00	9	90	72	10	0	0	0	0	0	0	0	0	0	0	181
22:00	10	104	71	11	1	0	0	0	0	0	0	0	0	0	197
23:00	12	62	62	11	1	0	0	0	0	0	0	0	0	0	148
Total	900	3095	2260	279	32	1	0	0	0	0	0	0	0	0	6567

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

3100 block of Bladensburg Rd NE NEB Speed

NEB															
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
11/16/13	2	34	25	5	0	0	0	0	0	0	0	0	0	0	66
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	2	34	25	5	0	0	0	0	0	0	0	0	0	0	66
Grand Total	902	3129	2285	284	32	1	0	0	0	0	0	0	0	0	6633

15th Percentile : 10 MPH
 50th Percentile : 17 MPH
 85th Percentile : 22 MPH
 95th Percentile : 25 MPH

Stats
 Mean Speed(Average) : 17 MPH
 10 MPH Pace Speed : 14-23 MPH
 Number in Pace : 3946
 Percent in Pace : 59.5%
 Number of Vehicles > 30 MPH : 47
 Percent of Vehicles > 30 MPH : 0.7%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

3100 block of Bladensburg Rd NE NEB 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	*	100	38	*	*	*	38	100
12:15	*	126	28	*	*	*	28	126
12:30	15	107	*	*	*	*	15	107
12:45	14	155	*	*	*	*	14	155
01:00	13	116	*	*	*	*	13	116
01:15	7	118	*	*	*	*	7	118
01:30	7	111	*	*	*	*	7	111
01:45	8	135	*	*	*	*	8	135
02:00	8	105	*	*	*	*	8	105
02:15	7	109	*	*	*	*	7	109
02:30	6	122	*	*	*	*	6	122
02:45	9	123	*	*	*	*	9	123
03:00	13	129	*	*	*	*	13	129
03:15	9	115	*	*	*	*	9	115
03:30	2	144	*	*	*	*	2	144
03:45	6	131	*	*	*	*	6	131
04:00	4	151	*	*	*	*	4	151
04:15	7	158	*	*	*	*	7	158
04:30	13	139	*	*	*	*	13	139
04:45	14	155	*	*	*	*	14	155
05:00	20	152	*	*	*	*	20	152
05:15	18	133	*	*	*	*	18	133
05:30	26	121	*	*	*	*	26	121
05:45	19	126	*	*	*	*	19	126
06:00	24	131	*	*	*	*	24	131
06:15	43	114	*	*	*	*	43	114
06:30	37	130	*	*	*	*	37	130
06:45	47	119	*	*	*	*	47	119
07:00	54	95	*	*	*	*	54	95
07:15	72	99	*	*	*	*	72	99
07:30	49	74	*	*	*	*	49	74
07:45	56	63	*	*	*	*	56	63
08:00	53	74	*	*	*	*	53	74
08:15	53	69	*	*	*	*	53	69
08:30	66	41	*	*	*	*	66	41
08:45	66	52	*	*	*	*	66	52
09:00	81	57	*	*	*	*	81	57
09:15	60	40	*	*	*	*	60	40
09:30	75	45	*	*	*	*	75	45
09:45	70	39	*	*	*	*	70	39
10:00	77	54	*	*	*	*	77	54
10:15	86	56	*	*	*	*	86	56
10:30	84	45	*	*	*	*	84	45
10:45	106	42	*	*	*	*	106	42
11:00	80	57	*	*	*	*	80	57
11:15	114	33	*	*	*	*	114	33
11:30	100	27	*	*	*	*	100	27
11:45	101	31	*	*	*	*	101	31
Total	1899	4668	66	0	0	0	1965	4668
Combined Total	6567		66		0		6633	
Peak	10:45	04:15					10:45	04:15
Vol.	400	604					400	604
P.H.F.	0.877	0.956					0.877	0.956
ADT	ADT 6,633		AADT 6,633					

Accident Summary Report (R-8)

Corridor: BLADENSBURG RD,NE From THIRTY FIFTH ST,NE TO BANNEKER DR,NE

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

Prepared By: Rahul Jain

Prepared Date: 9/16/2013

Total Number of Accident:	24	Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Fatalities:	0	Right Angle:	2	8.3%	Fixed Object:	2	8.3%
Total Number of Injuries:	13	Left Turn:	2	8.3%	Ran Off Road:	1	4.2%
Total Number of Disabling Injuries:	0	Right Turn:	1	4.2%	Ped. Involved:	1	4.2%
Total Number of NonDisabling Injuries:	1	Rear End:	7	29.2%	Backing:	4	16.7%
Total Number of Pedestrians Involved:	1	Side Swiped:	2	8.3%	Non Collision:	0	0.0%
Total Number of Bicycles Involved:	0	Head On:	1	4.2%	Under/Over Ride:	0	0.0%
Total Number of Motorcycles Involved:	0	Parked:	1	4.2%	Unspecified:	0	0.0%
Time of Day				#ACC	%	Day of week	
07:30 ~ 09:30:				3	12.5%	Sunday:	
09:30 ~ 11:30:				2	8.3%	Monday:	
11:30 ~ 13:30:				2	8.3%	Tuesday:	
13:30 ~ 16:00:				6	25.0%	Wednesday:	
16:00 ~ 18:30:				5	20.8%	Thursday:	
18:30 ~ 07:30:				6	25.0%	Friday:	
Unspecified:				0	0.0%	Saturday:	
Weather Condition				#ACC	%	Surface Condition	
Clear:				19	79.2%	Dry:	
Rain:				4	16.7%	Wet:	
Snow:				0	0.0%	Snow/Ice:	
Sleet/Hail:				0	0.0%	Slush:	
Fog/Mist:				1	4.2%	Water/Sand:	
Crosswind/Blowing Sand:				0	0.0%	Repairing:	
Unspecified:				0	0.0%	Unspecified:	
Type of Vehicle				#VEH	%	Accident Severity Type	
Passenger Car:				34	70.8%	Fatal Collision:	
Bus:				3	6.3%	Injury Collision:	
Truck:				6	12.5%	PDO Collision:	
Taxi:				0	0.0%	Light Condition	
Minivan:				0	0.0%	Daylight:	
Police/Emergency Vehicle:				1	2.1%	Dawn/Dusk:	
Motorcycle/Moped:				0	0.0%	Dark(Lighted):	
Bicycle:				0	0.0%	Dark(Not Lighted):	
Fixed Object:				0	0.0%	Dark(Unknown Lighting):	
Unspecified:				4	8.3%	Unspecified:	
Contributing Factor				#VEH	%	Pedestrian Actions	
Driver: Speed:				1	2.1%	In Crosswalk with Signal:	
Driver: Alcohol/Drug:				0	0.0%	In Crosswalk against Signal:	
Driver: Electronic Device:				0	0.0%	In Crosswalk no Signal:	
Driver: Others:				6	12.5%	In Unmarked Crosswalk:	
Vehicle:				3	6.3%	Not in Crosswalk:	
Roadway:				0	0.0%	From Between Parked Cars:	
Unspecified:				38	79.2%	Unspecified:	

17 Records are not approved as of 9/16/2013 9:04:13 AM