



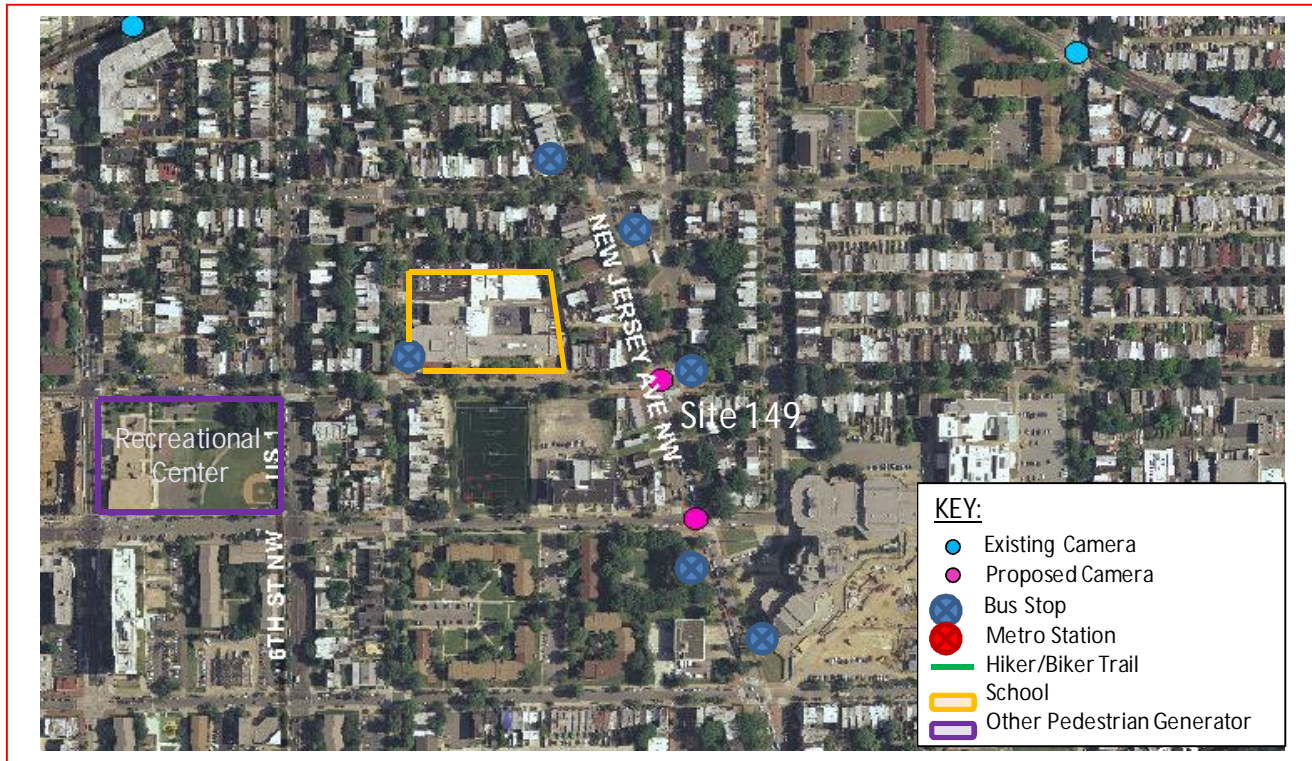
District Department of Transportation

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

1500 Block New Jersey Avenue NW

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
3	308	2	2C	Proposed	1500 Block New Jersey Avenue Northwest Southbound



This *proposed* speed camera will be located in Ward 2 at the 1500 block of New Jersey Avenue Northwest in the southbound direction. New Jersey Avenue runs from Florida Avenue Northwest in the north to Tingey Street Northwest in the south. The posted speed limit is 25 MPH.

W2 - 157





District Department of Transportation

1500 Block New Jersey Avenue NW

Field Assessment Summary

New Jersey Avenue is assumed to run in the North-South direction and is classified as a minor arterial. New Jersey Avenue has two travel lanes in each direction. The site has the following characteristics:

- This site is located in a residential area with driveways, and on-street parking on both sides of the street.
- Sidewalks with curb and gutter exist on both sides of the street. The existing pavement is in good condition.
- There are two schools in the area: Montgomery Elementary School and Dunbar High School. There is a school crossing guard here before and after school hours.
- There is a bus stop on the east side, and several others in the surrounding area.



Looking Northbound



District Department of Transportation

1500 Block New Jersey Avenue NW



Looking Southbound

Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	19
85th Percentile Speed (MPH)	25
10 MPH Pace Speed (MPH)	17-26
ADT	8,720

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.

Crash Data Analysis

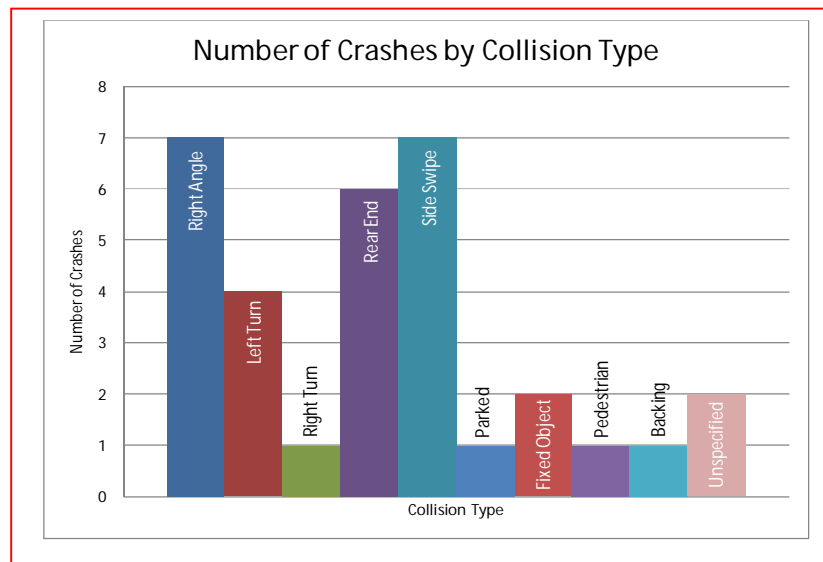
From the Accident Summary Report provided for the dates between January 1, 2010 and December 31, 2012, there were a total of 32 crashes at this location. A breakdown of number of crashes by collision type can be found in the chart on the next page. The most common types of collision at this location were Right Angle (7 crashes), Side Swipe (7 crashes), and Rear End (6 crashes). The other collision types had less than 4 crashes or less. Furthermore, this site experienced a high frequency (17 crashes) of injury related crashes.



District Department of Transportation

1500 Block New Jersey Avenue NW

Severity			Weather			Surface condition			Light Condition		
Total	32										
Fatal	0	0.0%	Clear	30	93.8%	Dry	29	90.6%	Day	22	68.8%
Injury	17	53.1%	Rain	1	3.1%	Wet	2	6.3%	Night	10	31.3%
Bicycle	4	12.5%	Snow	1	3.1%	Snow/Ice	0	0.0%			
Truck	2	6.3%									



The New Jersey Avenue 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 establish a nexus between the speed camera and traffic safety:

1. Speed Data – The speed data analysis shows travel speeds being lower or the same as the posted speed limit.
2. Crash Data – There was an elevated number of speed related crashes at this location, including right angle, side swiped and rear end collisions, as well as a high frequency (17 crashes) of injury-related crashes.
3. Field Assessment – The following site characteristics suggest a need for a safer travel environment:

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



District Department of Transportation

1500 Block New Jersey Avenue NW

- a. Located in a residential area with houses and driveways on both sides of the street.
- b. There are two schools in the area: Dunbar High School and Montgomery Elementary School.
- c. There is a school crossing at this location before and after school hours.
- d. There is a recreational center in the area which generates pedestrian activity.
- e. There are multiple bus stops in the area which generate pedestrian activity.

Although the speed data analysis showed 85th percentile speed same as the posted speed limit, due to the elevated number of speed-related crashes and injury-related crashes, the specific site characteristics, 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

1500 block New Jersey Ave NW SB Speed

SB

Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	Total
	20	25	30	35	40	45	50	55	60	65	70	75	999		
11/05/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	1	0	5	4	0	0	0	0	0	0	0	0	0	0	10
03:00	0	3	12	13	0	0	0	0	0	0	0	0	0	0	28
04:00	0	2	14	23	2	0	0	0	0	0	0	0	0	0	41
05:00	5	12	73	65	8	1	0	0	0	0	0	0	0	0	164
06:00	13	34	181	127	15	1	0	0	0	0	0	0	0	0	371
07:00	141	243	193	41	1	0	0	0	0	0	0	0	0	0	619
08:00	115	253	200	29	1	0	0	0	0	0	0	0	0	0	598
09:00	55	125	292	75	6	0	0	0	0	0	0	0	0	0	553
10:00	45	87	218	67	2	0	0	0	0	0	0	0	0	0	419
11:00	27	62	199	92	10	0	0	0	0	0	0	0	0	0	390
12 PM	42	123	235	50	3	1	0	0	0	0	0	0	0	0	454
13:00	27	92	252	86	10	1	0	0	0	0	0	0	0	0	468
14:00	40	131	288	65	13	1	0	0	0	0	0	0	0	0	538
15:00	43	145	335	50	1	0	0	0	0	0	0	0	0	0	574
16:00	34	254	298	28	0	0	0	0	0	0	0	0	0	0	614
17:00	138	170	210	14	0	0	0	0	0	0	0	0	0	0	532
18:00	98	212	206	6	0	0	0	0	0	0	0	0	0	0	522
19:00	18	68	284	61	1	0	0	0	0	0	0	0	0	0	432
20:00	6	39	240	76	2	0	0	0	0	0	0	0	0	0	363
21:00	9	37	218	64	6	0	0	0	0	0	0	0	0	0	334
22:00	16	32	143	59	4	0	0	0	0	0	0	0	0	0	254
23:00	2	11	149	36	2	0	0	0	0	0	0	0	0	0	200
Total	875	2135	4245	1131	87	5	0	0	0	0	0	0	0	0	8478

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

1500 block New Jersey 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
11/06/13	2	10	69	48	1	0	0	0	0	0	0	0	0	0	130
01:00	5	7	38	22	2	0	0	0	0	0	0	0	0	0	74
02:00	3	2	21	10	2	0	0	0	0	0	0	0	0	0	38
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	10	19	128	80	5	0	0	0	0	0	0	0	0	0	242
Grand Total	885	2154	4373	1211	92	5	0	0	0	0	0	0	0	0	8720

15th Percentile : 11 MPH
 50th Percentile : 20 MPH
 85th Percentile : 25 MPH
 95th Percentile : 28 MPH

Stats
 Mean Speed(Average) : 19 MPH
 10 MPH Pace Speed : 17-26 MPH
 Number in Pace : 5135
 Percent in Pace : 58.9%
 Number of Vehicles > 25 MPH : 1401
 Percent of Vehicles > 25 MPH : 16.1%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

1500 block New Jersey Ave NW SB Volume

Start Time	Tue	05-Nov-13	Wed	06-Nov-13	Thu	07-Nov-13	Daily Average	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	*	113	49	*	*	*	49	113
12:15	*	109	30	*	*	*	30	109
12:30	*	109	31	*	*	*	31	109
12:45	*	123	20	*	*	*	20	123
01:00	*	133	28	*	*	*	28	133
01:15	*	107	19	*	*	*	19	107
01:30	*	117	13	*	*	*	13	117
01:45	*	111	14	*	*	*	14	111
02:00	*	130	16	*	*	*	16	130
02:15	*	143	11	*	*	*	11	143
02:30	*	128	11	*	*	*	11	128
02:45	10	137	*	*	*	*	10	137
03:00	6	140	*	*	*	*	6	140
03:15	9	128	*	*	*	*	9	128
03:30	10	142	*	*	*	*	10	142
03:45	3	164	*	*	*	*	3	164
04:00	6	166	*	*	*	*	6	166
04:15	11	154	*	*	*	*	11	154
04:30	15	140	*	*	*	*	15	140
04:45	9	154	*	*	*	*	9	154
05:00	28	108	*	*	*	*	28	108
05:15	30	140	*	*	*	*	30	140
05:30	46	133	*	*	*	*	46	133
05:45	60	151	*	*	*	*	60	151
06:00	65	121	*	*	*	*	65	121
06:15	85	130	*	*	*	*	85	130
06:30	110	138	*	*	*	*	110	138
06:45	111	133	*	*	*	*	111	133
07:00	156	112	*	*	*	*	156	112
07:15	129	102	*	*	*	*	129	102
07:30	179	107	*	*	*	*	179	107
07:45	155	111	*	*	*	*	155	111
08:00	147	95	*	*	*	*	147	95
08:15	160	82	*	*	*	*	160	82
08:30	151	95	*	*	*	*	151	95
08:45	140	91	*	*	*	*	140	91
09:00	125	76	*	*	*	*	125	76
09:15	163	112	*	*	*	*	163	112
09:30	130	73	*	*	*	*	130	73
09:45	135	73	*	*	*	*	135	73
10:00	119	57	*	*	*	*	119	57
10:15	109	73	*	*	*	*	109	73
10:30	90	69	*	*	*	*	90	69
10:45	101	55	*	*	*	*	101	55
11:00	78	50	*	*	*	*	78	50
11:15	106	56	*	*	*	*	106	56
11:30	99	52	*	*	*	*	99	52
11:45	107	42	*	*	*	*	107	42
Total	3193	5285	242	0	0	0	3435	5285
Combined Total	8478		242		0		8720	
Peak	07:30	03:30	12:00				07:30	03:30
Vol.	641	626	130				641	626
P.H.F.	0.895	0.943	0.663				0.895	0.943
ADT		ADT 8,720	AADT 8,720					

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

Corridor: NEW JERSEY AVE,NW,SE From Q ST,NW TO O ST,NW

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

Prepared By: Rahul Jain

Prepared Date: 10/27/2012

Total Number of Accident:	32	Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Fatalities:	0	Right Angle:	7	21.9%	Fixed Object:	2	6.3%
Total Number of Injuries:	26	Left Turn:	4	12.5%	Ran Off Road:	0	0.0%
Total Number of Disabling Injuries:	2	Right Turn:	1	3.1%	Ped. Involved:	1	3.1%
Total Number of NonDisabling Injuries:	6	Rear End:	6	18.8%	Backing:	1	3.1%
Total Number of Pedestrians Involved:	1	Side Swiped:	7	21.9%	Non Collision:	0	0.0%
Total Number of Bicycles Involved:	4	Head On:	0	0.0%	Under/Over Ride:	0	0.0%
Total Number of Motorcycles Involved:	0	Parked:	1	3.1%	Unspecified:	2	6.3%
Time of Day				#ACC	%	Day of week	
07:30 ~ 09:30:				6	18.8%	Sunday:	
09:30 ~ 11:30:				0	0.0%	Monday:	
11:30 ~ 13:30:				3	9.4%	Tuesday:	
13:30 ~ 16:00:				6	18.8%	Wednesday:	
16:00 ~ 18:30:				7	21.9%	Thursday:	
18:30 ~ 07:30:				10	31.3%	Friday:	
Unspecified:				0	0.0%	Saturday:	
07:30 ~ 09:30:				6	18.8%	Sunday:	
09:30 ~ 11:30:				0	0.0%	Monday:	
11:30 ~ 13:30:				3	9.4%	Tuesday:	
13:30 ~ 16:00:				6	18.8%	Wednesday:	
16:00 ~ 18:30:				7	21.9%	Thursday:	
18:30 ~ 07:30:				10	31.3%	Friday:	
Unspecified:				0	0.0%	Saturday:	
Weather Condition				#ACC	%	Surface Condition	
Clear:				30	93.8%	Dry:	
Rain:				1	3.1%	Wet:	
Snow:				1	3.1%	Snow/Ice:	
Sleet/Hail:				0	0.0%	Slush:	
Fog/Mist:				0	0.0%	Water/Sand:	
Crosswind/Blowing Sand:				0	0.0%	Repairing:	
Unspecified:				0	0.0%	Unspecified:	
Clear:				30	93.8%	Dry:	
Rain:				1	3.1%	Wet:	
Snow:				1	3.1%	Snow/Ice:	
Sleet/Hail:				0	0.0%	Slush:	
Fog/Mist:				0	0.0%	Water/Sand:	
Crosswind/Blowing Sand:				0	0.0%	Repairing:	
Unspecified:				0	0.0%	Unspecified:	
Type of Vehicle				#VEH	%	Accident Severity Type	
Passenger Car:				49	76.6%	Fatal Collision:	
Bus:				1	1.6%	Injury Collision:	
Truck:				2	3.1%	PDO Collision:	
Taxi:				1	1.6%		
Minivan:				0	0.0%	Light Condition	
Police/Emergency Vehicle:				1	1.6%	Daylight:	
Motorcycle/Moped:				2	3.1%	Dawn/Dusk:	
Bicycle:				4	6.3%	Dark(Lighted):	
Fixed Object:				0	0.0%	Dark(Not Lighted):	
Unspecified:				4	6.3%	Dark(Unknown Lighting):	
Passenger Car:				49	76.6%	Unspecified:	
Bus:				1	1.6%		
Truck:				2	3.1%		
Taxi:				1	1.6%		
Minivan:				0	0.0%		
Police/Emergency Vehicle:				1	1.6%		
Motorcycle/Moped:				2	3.1%		
Bicycle:				4	6.3%		
Fixed Object:				0	0.0%		
Unspecified:				4	6.3%		
Contributing Factor				#VEH	%	Pedestrian Actions	
Driver: Speed:				1	1.6%	In Crosswalk with Signal:	
Driver: Alcohol/Drug:				1	1.6%	In Crosswalk against Signal:	
Driver: Electronic Device:				0	0.0%	In Crosswalk no Signal:	
Driver: Others:				18	28.1%	In Unmarked Crosswalk:	
Vehicle:				0	0.0%	Not in Crosswalk:	
Roadway:				0	0.0%	From Between Parked Cars:	
Unspecified:				44	68.8%	Unspecified:	
Driver: Speed:				1	1.6%	In Crosswalk with Signal:	
Driver: Alcohol/Drug:				1	1.6%	In Crosswalk against Signal:	
Driver: Electronic Device:				0	0.0%	In Crosswalk no Signal:	
Driver: Others:				18	28.1%	In Unmarked Crosswalk:	
Vehicle:				0	0.0%	Not in Crosswalk:	
Roadway:				0	0.0%	From Between Parked Cars:	
Unspecified:				44	68.8%	Unspecified:	

14 Records are not approved as of 10/27/2013 3:47:46 PM