



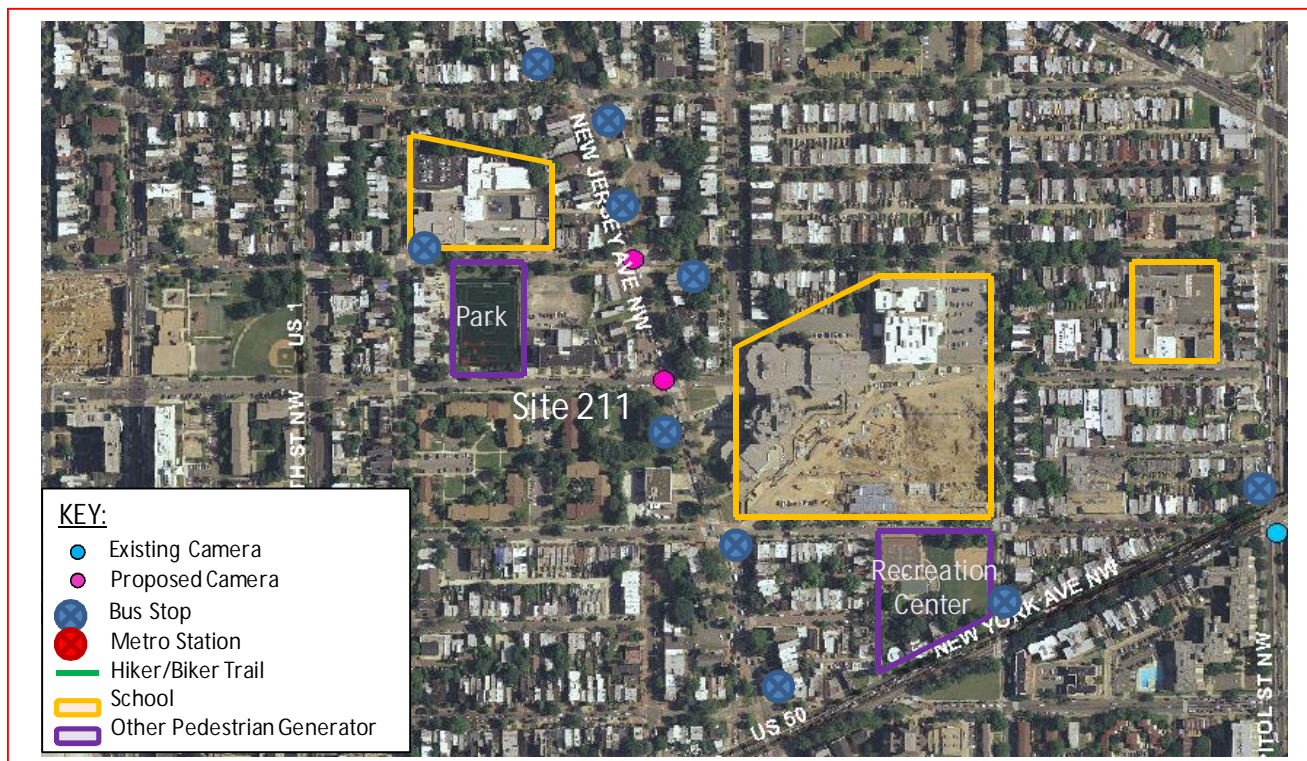
District Department of Transportation

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

1400 Block New Jersey Avenue NW

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
5	501	5	5C	Proposed	1400 Block New Jersey Avenue Northwest Northbound



This *proposed* speed camera will be located in Ward 5 on the 1400 block of New Jersey Avenue Northwest in the northbound direction. New Jersey Avenue runs between Florida Avenue in the north and Tingey Street in the south. The posted speed limit is 25 MPH.

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District Department of Transportation

1400 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 houses and driveways on both sides of the street.
- There is on-street parking and brick sidewalk with curb, gutter, and drainage inlets on both sides of the street.
- The existing pavement is in good condition.
- There is a traffic signal and crosswalks with pedestrian signals at the intersection with P Street Northwest. There are crosswalks with no signals at the intersection of O Street Northwest.
- There are three schools in the area: Kipp DC: Will Academy, Paul Laurence Dunbar Senior High School, and Margaret Murray Washington Vocational High School.
- Bundy Park and New York Avenue Playground are also in the area.



Looking Northbound

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District Department of Transportation

1400 Block New Jersey Avenue NW



Looking Southbound

Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	13
85th Percentile Speed (MPH)	18
10 MPH Pace Speed (MPH)	10-19
ADT	6,434

Both the mean speed and the 85th percentile speed are lower than the posted speed limit at this location. The 85th percentile speed is 7 MPH lower than 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 25 crashes at this location. A breakdown of collision type can be found in the chart on the next page. The most common types of collision at this location were Right Angle (5 crashes), Rear End (5 crashes), and Side Swiped (5 crashes). Furthermore, this location experienced a high frequency (13 crashes) of injury-related crashes.

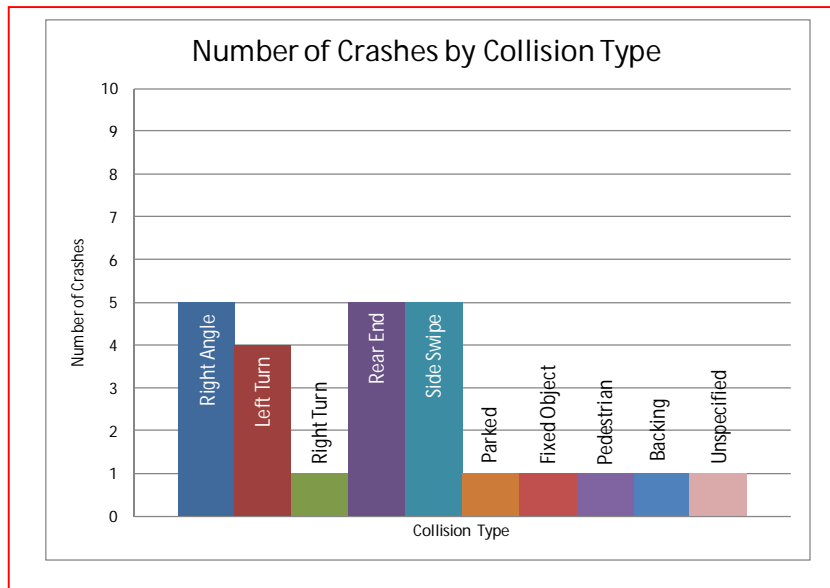
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District Department of Transportation

1400 Block New Jersey Avenue NW

Severity			Weather			Surface condition			Light Condition		
Total	25										
Fatal	0	0.0%	Clear	23	92.0%	Dry	22	88.0%	Day	17	68.0%
Injury	13	52.0%	Rain	1	4.0%	Wet	2	8.0%	Night	8	32.0%
Bicycle	3	12.0%	Snow	1	4.0%	Snow/Ice	0	0.0%			
Motorcycle	2	8.0%									



Safety Nexus

This site presents the following safety considerations which may support 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 a high frequency (13 crashes) of injury-related crashes.
3. Field Assessment – The following site characteristics suggest a need for a safer travel environment:
 - a. Located in a residential area with houses and driveways on both sides of the street.
 - b. There are three schools in the area: Kipp DC: Will Academy, Paul Laurence Dunbar Senior High School, and Margaret Murray Washington Vocational High School.
 - c. Bundy Park and New York Avenue Playground are in the area which generates pedestrian and bicycle activity.
 - d. There are several bus stops in the area which generate pedestrian activity.
 - e. There is on-street parking on both sides of the street.

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District Department of Transportation

1400 Block New Jersey Avenue NW

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, 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

1400 block of New Jersey Ave NW NB Speed

NB

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	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	13	41	6	1	0	0	0	0	0	0	0	0	0	0	61
02:00	4	22	9	0	0	0	0	0	0	0	0	0	0	0	35
03:00	5	21	11	0	0	0	0	0	0	0	0	0	0	0	37
04:00	16	41	25	1	0	0	0	0	0	0	0	0	0	0	83
05:00	17	93	36	3	0	0	0	0	0	0	0	0	0	0	149
06:00	56	170	30	3	0	0	0	0	0	0	0	0	0	0	259
07:00	127	196	45	1	0	0	0	0	0	0	0	0	0	0	369
08:00	83	220	55	0	0	0	0	0	0	0	0	0	0	0	358
09:00	61	206	40	0	0	0	0	0	0	0	0	0	0	0	307
10:00	68	178	43	0	0	0	0	0	0	0	0	0	0	0	289
11:00	73	194	38	1	0	0	0	0	0	0	0	0	0	0	306
12 PM	118	199	31	0	0	0	0	0	0	0	0	0	0	0	348
13:00	144	154	23	1	0	0	0	0	0	0	0	0	0	0	322
14:00	147	201	18	0	0	0	0	0	0	0	0	0	0	0	366
15:00	184	138	19	0	0	0	0	0	0	0	0	0	0	0	341
16:00	181	202	25	0	0	0	0	0	0	0	0	0	0	0	408
17:00	176	187	20	0	0	0	0	0	0	0	0	0	0	0	383
18:00	134	211	21	0	0	0	0	0	0	0	0	0	0	0	366
19:00	174	170	14	0	0	0	0	0	0	0	0	0	0	0	358
20:00	131	133	16	0	0	0	0	0	0	0	0	0	0	0	280
21:00	164	127	15	0	0	0	0	0	0	0	0	0	0	0	306
22:00	143	126	14	0	0	0	0	0	0	0	0	0	0	0	283
23:00	131	93	16	1	0	0	0	0	0	0	0	0	0	0	241
Total	2350	3323	570	12	0	0	0	0	0	0	0	0	0	0	6255

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

1400 block of New Jersey Ave NW NB Speed

NB

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	68	100	11	0	0	0	0	0	0	0	0	0	0	0	179
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	68	100	11	0	0	0	0	0	0	0	0	0	0	0	179
Grand Total	2418	3423	581	12	0	0	0	0	0	0	0	0	0	0	6434

15th Percentile : 6 MPH
 50th Percentile : 13 MPH
 85th Percentile : 18 MPH
 95th Percentile : 21 MPH

Stats
 Mean Speed(Average) : 13 MPH
 10 MPH Pace Speed : 10-19 MPH
 Number in Pace : 3835
 Percent in Pace : 59.6%
 Number of Vehicles > 25 MPH : 51
 Percent of Vehicles > 25 MPH : 0.8%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

1400 block of New Jersey Ave NW NB 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	*	88	58	*	*	*	58	88
12:15	*	89	44	*	*	*	44	89
12:30	*	89	45	*	*	*	45	89
12:45	*	82	32	*	*	*	32	82
01:00	16	80	*	*	*	*	16	80
01:15	14	74	*	*	*	*	14	74
01:30	15	87	*	*	*	*	15	87
01:45	16	81	*	*	*	*	16	81
02:00	6	78	*	*	*	*	6	78
02:15	11	86	*	*	*	*	11	86
02:30	5	85	*	*	*	*	5	85
02:45	13	117	*	*	*	*	13	117
03:00	7	87	*	*	*	*	7	87
03:15	9	75	*	*	*	*	9	75
03:30	9	80	*	*	*	*	9	80
03:45	12	99	*	*	*	*	12	99
04:00	10	102	*	*	*	*	10	102
04:15	19	105	*	*	*	*	19	105
04:30	23	106	*	*	*	*	23	106
04:45	31	95	*	*	*	*	31	95
05:00	27	99	*	*	*	*	27	99
05:15	35	100	*	*	*	*	35	100
05:30	30	99	*	*	*	*	30	99
05:45	57	85	*	*	*	*	57	85
06:00	53	89	*	*	*	*	53	89
06:15	68	92	*	*	*	*	68	92
06:30	65	79	*	*	*	*	65	79
06:45	73	106	*	*	*	*	73	106
07:00	78	95	*	*	*	*	78	95
07:15	92	102	*	*	*	*	92	102
07:30	78	89	*	*	*	*	78	89
07:45	121	72	*	*	*	*	121	72
08:00	100	55	*	*	*	*	100	55
08:15	89	67	*	*	*	*	89	67
08:30	78	74	*	*	*	*	78	74
08:45	91	84	*	*	*	*	91	84
09:00	86	77	*	*	*	*	86	77
09:15	79	74	*	*	*	*	79	74
09:30	67	70	*	*	*	*	67	70
09:45	75	85	*	*	*	*	75	85
10:00	87	70	*	*	*	*	87	70
10:15	68	67	*	*	*	*	68	67
10:30	58	72	*	*	*	*	58	72
10:45	76	74	*	*	*	*	76	74
11:00	76	55	*	*	*	*	76	55
11:15	66	70	*	*	*	*	66	70
11:30	88	63	*	*	*	*	88	63
11:45	76	53	*	*	*	*	76	53
Total	2253	4002	179	0	0	0	2432	4002
Combined Total	6255		179		0		6434	
Peak	07:15	03:45	12:00				07:15	03:45
Vol.	391	412	179				391	412
P.H.F.	0.808	0.972	0.772				0.808	0.972
ADT	ADT 6,434		AADT 6,434					

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

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

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

Prepared By: Rahul Jain

Prepared Date: 9/16/2013

		Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Accident:	25	Right Angle:	5	20.0%	Fixed Object:	1	4.0%
Total Number of Fatalities:	0	Left Turn:	4	16.0%	Ran Off Road:	0	0.0%
Total Number of Injuries:	20	Right Turn:	1	4.0%	Ped. Involved:	1	4.0%
Total Number of Disabling Injuries:	2	Rear End:	5	20.0%	Backing:	1	4.0%
Total Number of NonDisabling Injuries:	4	Side Swiped:	5	20.0%	Non Collision:	0	0.0%
Total Number of Pedestrians Involved:	1	Head On:	0	0.0%	Under/Over Ride:	0	0.0%
Total Number of Bicycles Involved:	3	Parked:	1	4.0%	Unspecified:	1	4.0%
Total Number of Motorcycles Involved:	0						

Time of Day	#ACC	%	Day o fweek	#ACC	%
07:30 ~ 09:30:	5	20.0%	Sunday:	2	8.0%
09:30 ~ 11:30:	0	0.0%	Monday:	3	12.0%
11:30 ~ 13:30:	2	8.0%	Tuesday:	5	20.0%
13:30 ~ 16:00:	4	16.0%	Wednesday:	3	12.0%
16:00 ~18:30:	6	24.0%	Thursday:	7	28.0%
18:30 ~ 07:30:	8	32.0%	Friday:	2	8.0%
Unspecified:	0	0.0%	Saturday:	3	12.0%

Weather Condition	#ACC	%	Surface Condition	#ACC	%
Clear:	23	92.0%	Dry:	22	88.0%
Rain:	1	4.0%	Wet:	2	8.0%
Snow:	1	4.0%	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	4.0%

Type of Vehicle	#VEH	%	Accident Severity Type	#ACC	%
Passenger Car:	37	75.5%	Fatal Collision:	0	0.0%
Bus:	1	2.0%	Injury Collision:	13	52.0%
Truck:	1	2.0%	PDO Collision:	12	48.0%
Taxi:	1	2.0%			
Minivan:	0	0.0%	Light Condition	#ACC	%
Police/Emergency Vehicle:	1	2.0%	Daylight:	17	68.0%
Motorcycle/Moped:	2	4.1%	Dawn/Dusk:	0	0.0%
Bicycle:	3	6.1%	Dark(Lighted):	8	32.0%
Fixed Object:	0	0.0%	Dark(Not Lighted):	0	0.0%
Unspecified:	3	6.1%	Dark(Unknown Lighting):	0	0.0%
			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:	1	2.0%	In Crosswalk against Signal:	0	0.0%
Driver: Electronic Device:	0	0.0%	In Crosswalk no Signal:	0	0.0%
Driver: Others:	15	30.6%	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:	33	67.3%	Unspecified:	0	0.0%

12 Records are not approved as of 9/16/2013 8:28:02 AM