



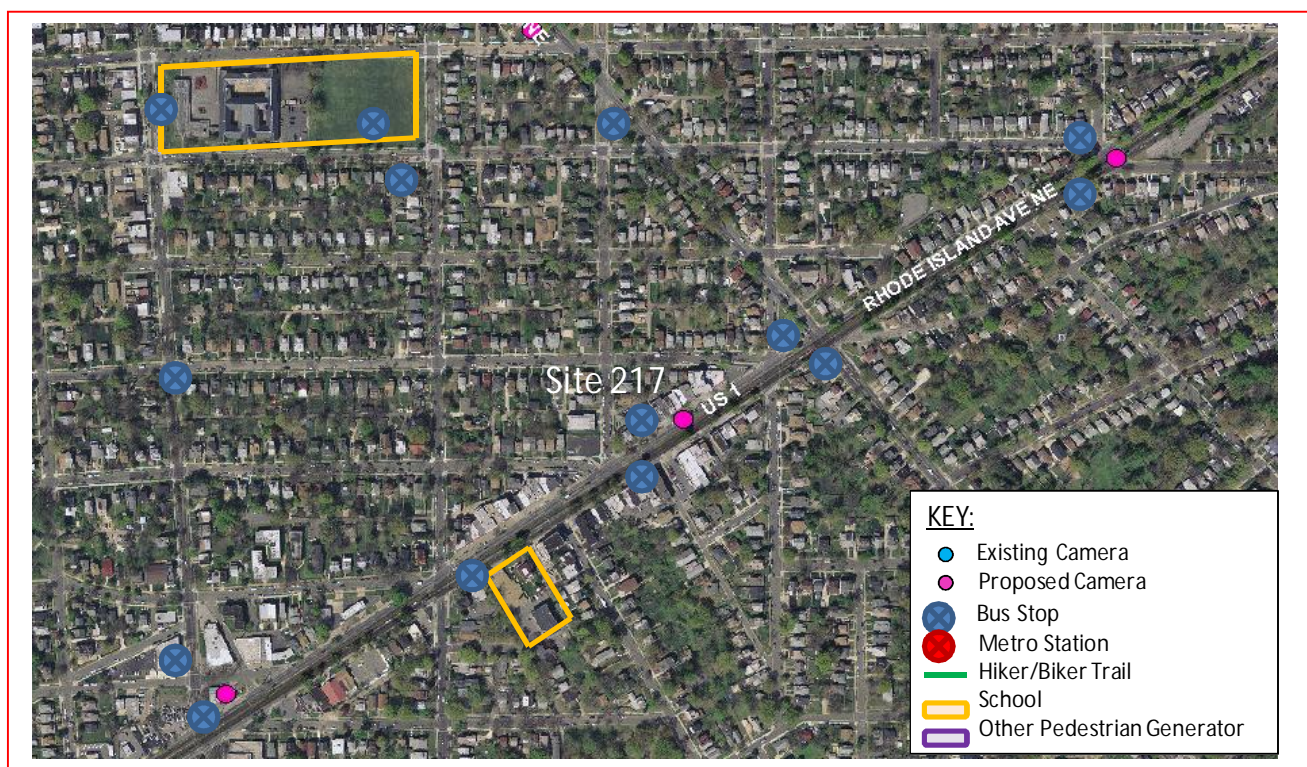
District Department of Transportation

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

2200-2300 Block Rhode Island Avenue NE

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
5	503	5	5A	Proposed	2200-2300 Blocks Rhode Island Avenue Northeast Northeastbound



This *proposed* speed camera will be located in Ward 5 between blocks 2200 and 2300 of Rhode Island Avenue Northeast in the northeast-bound direction. Rhode Island Avenue runs between Eastern Avenue Northeast to the east and North Capitol Street Northwest where it becomes Rhode Island Avenue Northwest to the west. The posted speed limit is 30 MPH.

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District Department of Transportation

2200-2300 Block Rhode Island Avenue NE

Field Assessment Summary

Rhode Island Avenue is assumed to run in the northeast-southwest direction, and is classified as a principal arterial. Rhode Island Avenue has three travel lanes in each direction. This site has the following characteristics:

- This is a residential and commercial area with houses and small businesses.
- There are two schools in the area: Burroughs Education Campus and the Geneva Ivey Day School.
- There is a concrete island at Thayer Street and a concrete island at 24th Street.
- There is a traffic signal with pedestrian signals and crosswalks at 24th Street NE and another crosswalk at Thayer Street.
- There is sidewalk and on-street parking on both sides of the street.
- The pavement is in fair condition and there is curb and gutter with drainage inlets.
- There is a bus stop southwest-bound at Thayer Street.



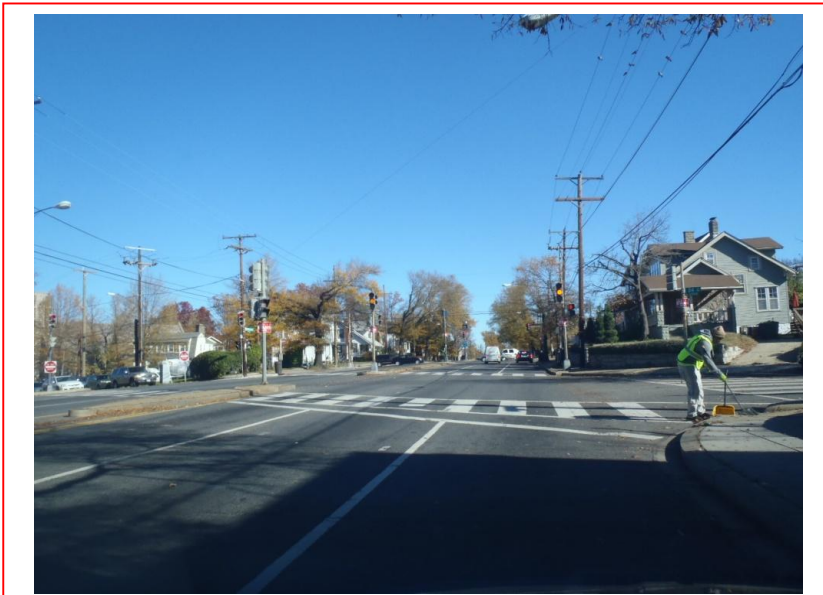
Looking Northeast-bound

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District Department of Transportation

2200-2300 Block Rhode Island Avenue NE



Looking Southwest-bound

Speed Data Analysis

Posted Speed Limit (MPH)	30
Mean Speed (MPH)	19
85th Percentile Speed (MPH)	27
10 MPH Pace Speed (MPH)	19-28
ADT	10,628

The mean speed is lower than the posted speed limit by 11 MPH and the 85th percentile speed is lower than the posted speed by 3 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 26 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 14 crashes. The other collision types had four crashes or less. Furthermore, this site experienced nine injury-related crashes.

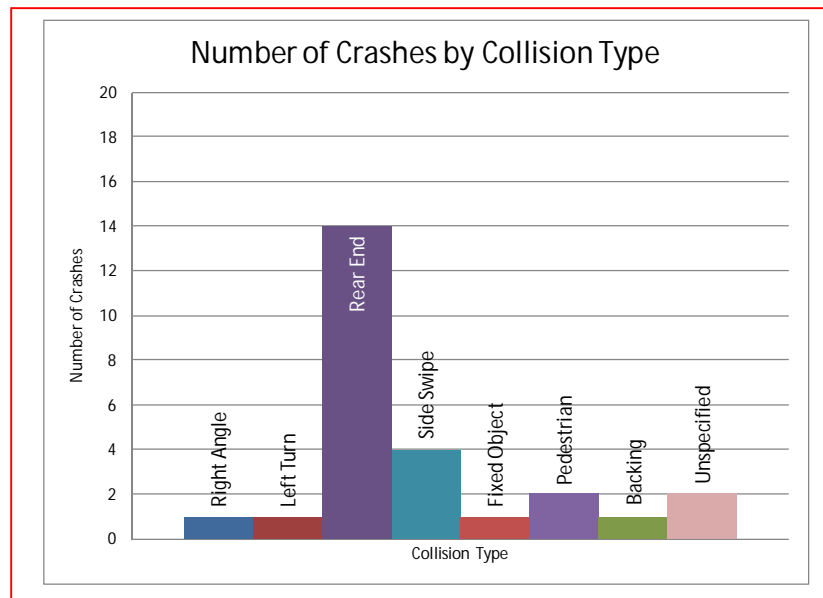
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District Department of Transportation

2200-2300 Block Rhode Island Avenue NE

Severity			Weather			Surface condition			Light Condition		
Total	26										
Fatal	0	0.0%	Clear	23	88.5%	Dry	23	88.5%	Day	15	57.7%
Injury	9	34.6%	Rain	3	11.5%	Wet	3	11.5%	Night	10	38.5%
Truck	8	30.8%	Snow	0	0.0%	Snow/Ice	0	0.0%			
Bus	2	7.7%									



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 nine injury-related crashes.
3. Field Assessment – The following site characteristics suggest a need for a safer travel environment:
 - a. This is a residential and commercial area with houses and small businesses.
 - b. There are two schools in the area: Burroughs Education Campus and the Geneva Ivey Day School.
 - c. There are several bus stops which generate pedestrian activity.
 - d. There is on-street parking on both sides of the street.

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District Department of Transportation

2200-2300 Block Rhode Island Avenue NE

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

2200-2300 blocks of Rhode Island Ave 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
11/13/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	15	19	99	50	5	0	0	0	0	0	0	0	0	0	188
22:00	11	25	181	101	14	2	0	0	0	0	0	0	0	0	334
23:00	6	24	142	101	18	0	0	0	0	0	0	0	0	0	291
Total	32	68	422	252	37	2	0	0	0	0	0	0	0	0	813

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

2200-2300 blocks of Rhode Island Ave 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
11/14/13	3	11	75	75	9	1	3	0	0	0	0	0	0	0	177
01:00	3	7	52	39	8	0	0	0	0	0	0	0	0	0	109
02:00	4	2	21	29	6	0	0	0	0	0	0	0	0	0	62
03:00	1	9	17	18	4	0	0	0	0	0	0	0	0	0	49
04:00	1	2	25	25	7	1	0	0	0	0	0	0	0	0	61
05:00	5	5	36	43	10	0	0	0	0	0	0	0	0	0	99
06:00	6	11	45	100	34	1	0	0	0	0	0	0	0	0	197
07:00	18	12	96	161	45	6	0	0	0	0	0	0	0	0	338
08:00	23	45	180	174	35	3	0	0	0	0	0	0	0	0	460
09:00	31	51	171	140	36	2	0	0	0	0	0	0	0	0	431
10:00	49	72	196	155	40	6	0	0	0	0	0	0	0	0	518
11:00	63	83	244	164	47	2	0	0	0	0	0	0	0	0	603
12 PM	104	124	218	159	35	2	0	0	0	0	0	0	0	0	642
13:00	104	64	269	193	43	4	0	0	0	0	0	0	0	0	677
14:00	147	161	292	167	39	1	0	0	0	0	0	0	0	0	807
15:00	263	202	216	90	9	0	0	0	0	0	0	0	0	0	780
16:00	264	169	238	133	26	0	0	0	0	0	0	0	0	0	830
17:00	265	258	262	125	7	0	0	0	0	0	0	0	0	0	917
18:00	266	136	204	98	20	0	0	0	0	0	0	0	0	0	724
19:00	152	160	227	66	6	0	0	0	0	0	0	0	0	0	611
20:00	51	103	255	101	9	0	0	0	0	0	0	0	0	0	519
21:00	8	25	100	62	9	0	0	0	0	0	0	0	0	0	204
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	1831	1712	3439	2317	484	29	3	0	0	0	0	0	0	0	9815
Grand Total	1863	1780	3861	2569	521	31	3	0	0	0	0	0	0	0	10628

15th Percentile : 8 MPH
 50th Percentile : 20 MPH
 85th Percentile : 27 MPH
 95th Percentile : 30 MPH

Stats
 Mean Speed(Average) : 19 MPH
 10 MPH Pace Speed : 19-28 MPH
 Number in Pace : 4996
 Percent in Pace : 47.0%
 Number of Vehicles > 30 MPH : 654
 Percent of Vehicles > 30 MPH : 6.2%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

2200-2300 blocks of Rhode Island Ave NE NEB Volume

Start Time	Wed	13-Nov-13	Thu	14-Nov-13	Fri	15-Nov-13	Daily Average	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	*	*	67	146	*	*	67	146
12:15	*	*	51	166	*	*	51	166
12:30	*	*	33	160	*	*	33	160
12:45	*	*	26	170	*	*	26	170
01:00	*	*	32	171	*	*	32	171
01:15	*	*	25	179	*	*	25	179
01:30	*	*	24	171	*	*	24	171
01:45	*	*	28	156	*	*	28	156
02:00	*	*	19	173	*	*	19	173
02:15	*	*	18	202	*	*	18	202
02:30	*	*	9	201	*	*	9	201
02:45	*	*	16	231	*	*	16	231
03:00	*	*	10	208	*	*	10	208
03:15	*	*	10	198	*	*	10	198
03:30	*	*	11	176	*	*	11	176
03:45	*	*	18	198	*	*	18	198
04:00	*	*	17	223	*	*	17	223
04:15	*	*	14	236	*	*	14	236
04:30	*	*	14	225	*	*	14	225
04:45	*	*	16	146	*	*	16	146
05:00	*	*	27	248	*	*	27	248
05:15	*	*	21	201	*	*	21	201
05:30	*	*	19	227	*	*	19	227
05:45	*	*	32	241	*	*	32	241
06:00	*	*	43	171	*	*	43	171
06:15	*	*	43	174	*	*	43	174
06:30	*	*	47	176	*	*	47	176
06:45	*	*	64	203	*	*	64	203
07:00	*	*	75	148	*	*	75	148
07:15	*	*	90	151	*	*	90	151
07:30	*	*	83	164	*	*	83	164
07:45	*	*	90	148	*	*	90	148
08:00	*	*	144	129	*	*	144	129
08:15	*	*	111	133	*	*	111	133
08:30	*	*	98	132	*	*	98	132
08:45	*	*	107	125	*	*	107	125
09:00	*	*	113	119	*	*	113	119
09:15	*	*	108	85	*	*	108	85
09:30	*	81	102	*	*	*	102	81
09:45	*	107	108	*	*	*	108	107
10:00	*	89	133	*	*	*	133	89
10:15	*	80	126	*	*	*	126	80
10:30	*	94	130	*	*	*	130	94
10:45	*	71	129	*	*	*	129	71
11:00	*	78	152	*	*	*	152	78
11:15	*	78	147	*	*	*	147	78
11:30	*	82	162	*	*	*	162	82
11:45	*	53	142	*	*	*	142	53
Total	0	813	3104	6711	0	0	3104	7524
Combined Total	813		9815		0		10628	
Peak		09:45	11:00	05:00			11:00	05:00
Vol.		370	603	917			603	917
P.H.F.		0.864	0.931	0.924			0.931	0.924
ADT		ADT 10,628	AADT 10,628					

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

Corridor: RHODE ISLAND AVE,NW,NE From JACKSON ST,NE TO KEARNEY ST,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:	26	Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Fatalities:	0	Right Angle:	1	3.8%	Fixed Object:	1	3.8%
Total Number of Injuries:	11	Left Turn:	1	3.8%	Ran Off Road:	0	0.0%
Total Number of Disabling Injuries:	3	Right Turn:	0	0.0%	Ped. Involved:	2	7.7%
Total Number of NonDisabling Injuries:	1	Rear End:	14	53.8%	Backing:	1	3.8%
Total Number of Pedestrians Involved:	2	Side Swiped:	4	15.4%	Non Collision:	0	0.0%
Total Number of Bicycles Involved:	0	Head On:	0	0.0%	Under/Over Ride:	0	0.0%
Total Number of Motorcycles Involved:	0	Parked:	0	0.0%	Unspecified:	2	7.7%
Time of Day				#ACC	%	Day of week	
07:30 ~ 09:30:				2	7.7%	Sunday:	
09:30 ~ 11:30:				3	11.5%	Monday:	
11:30 ~ 13:30:				1	3.8%	Tuesday:	
13:30 ~ 16:00:				2	7.7%	Wednesday:	
16:00 ~ 18:30:				9	34.6%	Thursday:	
18:30 ~ 07:30:				9	34.6%	Friday:	
Unspecified:				0	0.0%	Saturday:	
Weather Condition				#ACC	%	Surface Condition	
Clear:				23	88.5%	Dry:	
Rain:				3	11.5%	Wet:	
Snow:				0	0.0%	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:				36	70.6%	Fatal Collision:	
Bus:				2	3.9%	Injury Collision:	
Truck:				8	15.7%	PDO Collision:	
Taxi:				1	2.0%	Light Condition	
Minivan:				0	0.0%	Daylight:	
Police/Emergency Vehicle:				0	0.0%	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	7.8%	Unspecified:	
Contributing Factor				#VEH	%	Pedestrian Actions	
Driver: Speed:				2	3.9%	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:				10	19.6%	In Unmarked Crosswalk:	
Vehicle:				0	0.0%	Not in Crosswalk:	
Roadway:				0	0.0%	From Between Parked Cars:	
Unspecified:				39	76.5%	Unspecified:	

17 Records are not approved as of 9/16/2013 8:52:47 AM