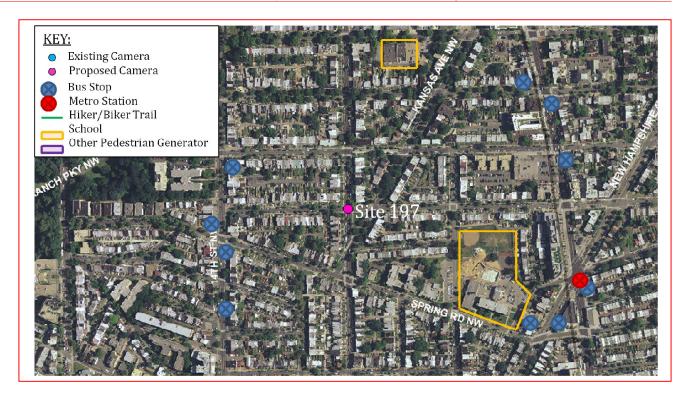




## Speed Limit and Safety Nexus Studies for Automated Enforcement Locations in the District of Columbia 1300 Block Quincy Street NW

### Study Area and Location

District	PSA	Ward	ANC	Phase	Description
4	404	4	4C	Proposed	1300 Block Quincy Street Northwest



The *proposed* speed camera will be located in Ward 4 at the 1300 block of Quincy Street Northwest. Quincy Street Northwest runs between 14<sup>th</sup> Street Northwest to the west and Rock Creek Church Road Northwest to the east. The posted speed limit is 25 MPH.

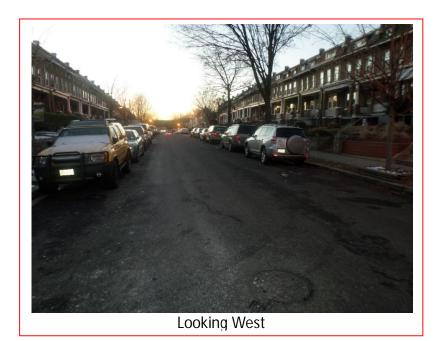




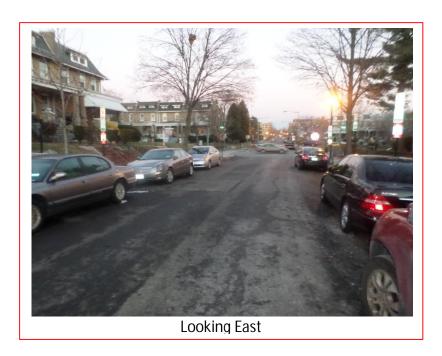
### Field Assessment Summary

Quincy Street Northwest is assumed to run in an east-west direction, and is classified as a local road. Quincy Street Northwest has one travel lanes in each direction. This site has the following characteristics:

- This is a residential area with houses. Retail stores are located to the west.
- There is one school in the area: Raymond Elementary School. The Raymond Recreation Center is located in the surrounding area.
- There are sidewalks on both sides of the street and crosswalks at 14<sup>th</sup> Street NW and 13<sup>th</sup> Street NW.
- The pavement is in good condition and there is curb and gutter with drainage inlets.
- There is on-street parking in each direction.







### Speed Data Analysis

	Westbound	Eastbound
Posted Speed Limit (MPH)	25	25
Mean Speed (MPH)	17	17
85th Percentile Speed (MPH)	27	26
10 MPH Pace Speed	5-14	6-15
Sample Size	507	402
ADT	90	9

The mean speed is lower than the posted speed limit in both directions and the 85th percentile speed is higher by 2 MPH in the westbound direction and 1 MPH in the eastbound direction than the posted speed limit at this location.

### Crash Data Analysis

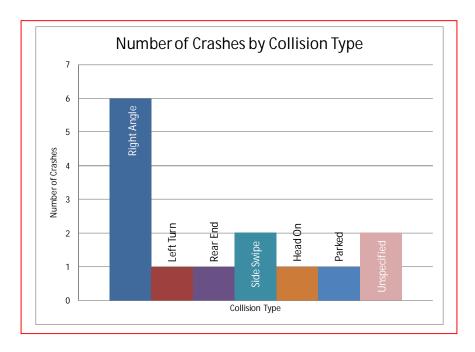
From the Accident Summary Report provided for the dates between January 1, 2010 and December 31, 2012, there were a total of 14 crashes at this location. A breakdown of number of crashes by collision type can be found in the chart on the next page. The most common types of collision at this location were Right Angle (6

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crashes), both Side Swipe and Unspecified with two crashes. The other collision types had one crash or less each. Furthermore, this site experienced six injury-related crashes.

Se		We	eather		Surface	condit	ion	Light Condition			
Total	14										
Fatal	0	0.0%	Clear	11	78.6%	Dry	11	78.6%	Day	9	64.3%
Injury	6	42.9%	Rain	2	14.3%	Wet	2	14.3%	Night	3	21.4%
Taxi	2	14.3%	Snow	0	0.0%	Snow/Ice	0	0.0%			
Bus	1	7.1%									



### 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 85th percentile speed is higher than the posted speed limit at this location.
- 2. Crash Data This site experienced six 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 houses. Retail stores are located in the surrounding area.
  - b. There is one school in this area: Raymond Elementary School.

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c. The Raymond Recreation Center is located in the surrounding area which generates pedestrian activity.

Due to the speed data analysis, the number of injury-related crashes, the specific site characteristics of a residential and retail area, and the nearby pedestrian generators, there is a nexus between traffic safety and the speed camera at this location.

### SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD MOUNT AIRY, MD 21771

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#### 1300 block of Quincy St NW Speed

WB															
Start	1	16	21	26	31	36	41	46	51	56	61	66	71	76	
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/11/13	1	0	1	1	1	0	0	0	0	0	0	0	0	0	4
01:00	1	0	2	3	2	1	0	0	0	0	0	0	0	0	9
02:00	1	0	2	1	0	0	0	0	0	0	0	0	0	0	4
03:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
04:00	0	1	3	0	0	0	0	0	0	0	0	0	0	0	4
05:00	2	0	0	1	3	1	0	1	0	0	0	0	0	0	8
06:00	4	0	1	3	1	1	0	0	0	0	0	0	0	0	10
07:00	17	3	1	4	1	1	1	0	0	0	0	0	0	0	28
08:00	7	4	8	4	3	0	0	0	0	0	0	0	0	0	26
09:00	3	2	8	3	2	0	0	0	0	0	0	0	0	0	18
10:00	20	1	3	3	3	0	0	1	0	0	0	0	0	0	31
11:00	14	3	7	6	0	0	1	0	0	0	0	0	0	0	31
12 PM	7	6	5	6	4	1	1	0	0	0	0	0	0	0	30
13:00	5	10	6	5	2	2	0	0	0	0	0	0	0	0	30
14:00	10	3	9	4	2	1	0	0	0	0	0	0	0	0	29
15:00	10	7	10	9	2	1	1	0	0	0	0	0	0	0	40
16:00	13	4	6	3	4	0	0	0	0	0	0	0	0	0	30
17:00	9	3	11	6	3	2	0	0	0	0	0	0	0	0	34
18:00	12	6	4	8	3	1	0	0	0	0	0	0	0	0	34
19:00	8	5	6	5	2	0	0	0	0	0	0	0	0	0	26
20:00	16	3	7	2	0	0	0	0	0	0	0	0	0	0	28
21:00	4	5	2	7	3	0	0	0	0	0	0	0	0	0	21
22:00	7	2	5	4	2	0	0	0	0	0	0	0	0	0	20
23:00	1	11	2	3	3	11	0	0	0	0	0	0	0	0	11_
Total	172	69	109	91	46	14	4	2	0	0	0	0	0	0	507
Grand Total	172	69	109	91	46	14	4	2	0	0	0	0	0	0	507

 15th Percentile:
 6 MPH

 50th Percentile:
 15 MPH

 85th Percentile:
 27 MPH

 95th Percentile:
 33 MPH

 Stats
 Mean Speed(Average) :
 17 MPH

 10 MPH Pace Speed :
 5-14 MPH

Number in Pace : 205
Percent in Pace : 40.4%
Number of Vehicles > 25 MPH : 119
Percent of Vehicles > 25 MPH : 23.4%

### SAMMAT ENGINEERING SERVICES, LLC

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#### 1300 block of Quincy St NW Speed

EB															
Start	1	16	21	26	31	36	41	46	51	56	61	66	71	76	
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/11/13	2	0	0	2	2	0	0	0	0	0	0	0	0	0	6
01:00	0	1	3	0	0	0	0	0	0	0	0	0	0	0	4
02:00	2	1	3	1	2	0	0	0	0	0	0	0	0	0	9
03:00	1	0	2	0	0	0	0	0	0	0	0	0	0	0	3
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
06:00	3	1	3	1	0	0	0	0	0	0	0	0	0	0	8
07:00	13	3	2	3	1	0	2	0	0	0	0	0	0	0	24
08:00	5	5	3	7	4	1	0	0	0	0	0	0	0	0	25
09:00	3	0	5	4	3	0	0	0	0	0	0	0	0	0	15
10:00	9	3	4	2	0	0	0	0	0	0	0	0	0	0	18
11:00	9	4	3	4	2	0	0	0	0	0	0	0	0	0	22
12 PM	4	2	8	4	2	1	0	0	0	0	0	0	0	0	21
13:00	10	5	8	4	1	0	0	0	0	0	0	0	0	0	28
14:00	6	6	3	2	0	2	0	0	0	0	0	0	0	0	19
15:00	7	5	2	4	2	1	0	0	0	0	0	0	0	0	21
16:00	12	13	8	3	0	1	0	0	0	0	0	0	0	0	37
17:00	10	5	4	6	1	1	0	0	0	0	0	0	0	0	27
18:00	8	1	6	9	2	0	0	0	0	0	0	0	0	0	26
19:00	7	3	7	3	1	0	0	0	0	0	0	0	0	0	21
20:00	12	7	4	3	1	1	0	0	0	0	0	0	0	0	28
21:00	4	4	3	1	1	0	0	0	0	0	0	0	0	0	13
22:00	6	2	3	3	1	0	0	0	0	0	0	0	0	0	15
23:00	11	3	2	11	2	0	0	0	0	0	0	0	0	0	9
Total	135	75	86	68	28	8	2	0	0	0	0	0	0	0	402
Grand Total	135	75	86	68	28	8	2	0	0	0	0	0	0	0	402

 15th Percentile:
 6 MPH

 50th Percentile:
 14 MPH

 85th Percentile:
 26 MPH

 95th Percentile:
 31 MPH

Stats Mean Speed(Average): 17 MPH 10 MPH Pace Speed: 6-15 MPH

 Number in Pace :
 166

 Percent in Pace :
 41.3%

 Number of Vehicles > 25 MPH :
 79

 Percent of Vehicles > 25 MPH :
 19.8%

## SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD MOUNT AIRY, MD 21771

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#### 1300 block of Quincy St NW Volume

Time	11-Nov-13 Mon	A.M.	WB				mbined	12-Nov-			EB		Comb	
	141011	A.IVI.	P.M.	A.M.	P.M.	A.M.	P.M.	Tue	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00		0	5	2	6	2	11		*	*	*	*	*	
12:15		1	14	4	5		19		*	*	*	*	*	
12:30		2	7	0	6	2	13		*	*	*	*	*	
12:45		1	4	0	4	1	8		*	*	*	*	*	
01:00		1	4	0	10	1	14		*	*	*	*	*	
01:15		3	11	1	13	4	24		*	*	*	*	*	
01:30		3	10	0	2	3	12		*	*	*	*	*	
01:45		2	5	3	3	5	8		*	*	*	*	*	
02:00		2	6	2	4	4	10		*	*	*	*	*	
02:00		0	8	2	5	2	13		*	*	*	*	*	
02:13		2	6	4	7	6	13		*	*	*	*	*	
02:30		0	9	1	3	1	12		*	*	*	*	*	
03:00			8	0	6		14		*	*	*	*	*	
		0			7	0			*	*	*	*	*	
03:15		0	9	0		0	16		*	*	*	*	*	
03:30		1	11	2	4	3	15		*	*	*	*	*	
03:45		0	12	1	4	1	16			*	*	*		
04:00		0	4	0	11	0	15		*				*	
04:15		1	10	1	9		19		*	*	*	*	*	
04:30		0	9	0	12		21		*	*	*	*	*	
04:45		3	7	0	5	_	12		*	*	*	*	*	
05:00		3	5	0	4		9		*	*	*	*	*	
05:15		1	11	1	9	2	20		*	*	*	*	*	
05:30		2	4	0	7	2	11		*	*	*	*	*	
05:45		2	14	1	7	3	21		*	*	*	*	*	
06:00		3	6	0	3	3	9		*	*	*	*	*	
06:15		1	11	2	10	3	21		*	*	*	*	*	
06:30		4	8	1	7	5	15		*	*	*	*	*	
06:45		2	9	5	6	7	15		*	*	*	*	*	
07:00		4	4	2	12	6	16		*	*	*	*	*	
07:15		8	2	6	4	14	6		*	*	*	*	*	
07:30		9	12	8	2		14		*	*	*	*	*	
07:45		7	8	8	3	15	11		*	*	*	*	*	
08:00		4	8	6	9		17		*	*	*	*	*	
08:15		9	9	4	5	13	14		*	*	*	*	*	
08:30		6	1	10	4	16	5		*	*	*	*	*	
08:45		7	10	5	10	12	20		*	*	*	*	*	
09:00		4	5	7	3	11	8		*	*	*	*	*	
09:15		7	7	2	5	9	12		*	*	*	*	*	
09:30		4	7	4	3	8	10		*	*	*	*	*	
09:45		3	2	2	2	5	4		*	*	*	*	*	
10:00		3	6	3	6	6	12		*	*	*	*	*	
10:15		9	8	4	6	13	14		*	*	*	*	*	
10:13		9				15	3		*	*	*	*	*	
		_	3	5	0				*	*	*	*	*	
10:45		10	3	-	3	5550	6		*	*	*	*	*	
11:00		8	3	6	1	14	4		N.	~ ×	. v.		~ ×	
11:15		5	4	4	2				*	*	*	*	*	
11:30		13	1	9	3				*	*	*	*	*	
11:45		5	3	3	3				*	*			*	
Total		174	333	137	265	311	598		0	0	0	0	0	
Day Total			507		402		909		0		0		0	
% Total		19.1%	36.6%	15.1%	29.2%			0.00	% 0.09	6 0.0%	0.0%			
Peak		10:15	03:00	07:15	04:00		03:45							
Vol.		36	40	28	37	60	71							
P.H.F.		0.900	0.833	0.875	0.771	0.682	0.845							
1 .1 1.1 .														

#### DC Department of Transportation - Traffic Accident Reporting and Analysis System

# Accident Summary Report (R-8)

Time Period Covered: Fi	rom 01/01/20	10 To 12/31	/2012 <b>Prepar</b>	ed By:	Rahul Jain	Prepared Da	ite: 9	9/16/2013
Total Number of Accident:		14	Collision Type	#ACC	%	Collision Type	#ACC	: %
Total Number of Fatalities:		0	Right Angle:	6	42.9%	Fixed Object:	0	0.0%
Total Number of Injuries:		10	Left Turn:	1	7.1%	Ran Off Road:	0	0.0%
Total Number of Disabling Ir	njuries:	0	Right Turn:	0	0.0%	Ped. Involved:	0	0.0%
Total Number of NonDisablin	ng Injuries:	1	Rear End:	1	7.1%	Backing:	0	0.0%
Total Number of Pedestrians	s Involved:	0	Side Swiped:	2	14.3%	Non Collision:	0	0.0%
Total Number of Bicycles Inv	volved:	0	Head On:	1	7.1%	Under/Over Ride:	0	0.0%
Total Number of Motorcycles	s Involved:	0	Parked:	1	7.1%	Unspecified:	2	14.3%
Time of Day	#ACC	%			Day o fweek	#AC	c	9/
07:30 ~ 09:30:	2	14.3%			Sunday:	2		14.3%
09:30 ~ 11:30:	1	7.1%			Monday:	1		7.1%
11:30 ~ 13:30:	2	14.3%			Tuesday:	3		21.4%
13:30 ~ 16:00:	4	28.6%			Wednesday:	3		21.4%
16:00 ~18:30:	2	14.3%			Thursday:	2		14.3%
18:30 ~ 07:30:	3	21.4%			Friday:	2		14.3%
Unspecified:	0	0.0%			Saturday:	1		7.1%
Weather Condition	#ACC	%			Surface Condition	#AC	:C	9
Clear:	11	78.6%			Dry:	11		78.6%
Rain:	2	14.3%			Wet:	2		14.3%
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:	1	7.1%			Unspecified:	1		7.1%
Type of Vehicle	#VEH	%			Accident Severity	Type #AC	:C	9/
Passenger Car:	22	75.9%			Fatal Collision:	0		0.0%
Bus:	1	3.4%			Injury Collision:	6		42.9%
Truck:	2	6.9%			PDO Collision:	8		57.1%
Taxi:	2	6.9%			1 Bo comoion.			01.17
Minivan:	0	0.0%			<b>Light Condition</b>	#AC	C	%
Police/Emergency Vehicle:	1	3.4%			Daylight:	9		64.3%
Motorcycle/Moped:	0	0.0%			Dawn/Dusk:	0		0.0%
Bicycle:	0	0.0%			Dark(Lighted):	3		21.4%
Fixed Object:	0	0.0%			Dark(Not Lighted):	0		0.0%
Unspecified:	1	3.4%			Dark(Unknown Ligh	iting): 0		0.0%
опореотов.	•	0.470			Unspecified:	2		14.3%
Contributing Factor	#VEH	%			Pedestrian Action	s #AC	c	%
Driver: Speed:	0	0.0%			In Crosswalk with S	ignal: 0		0.0%
Driver: Alcohol/Drug:	0	0.0%			In Crosswalk agains	st Signal: 0		0.0%
Driver: Electronic Device:	0	0.0%			In Crosswalk no Sig	gnal: 0		0.0%
Driver: Others:	7	24.1%			In Unmarked Cross			0.0%
Vehicle:	0	0.0%			Not in Crosswalk:	0		0.0%
Roadway:	4	13.8%			From Between Park	ked Cars: 0		0.0%
Unspecified:	18	62.1%			Unspecified:	0		0.0%