



District Department of Transportation

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

### 1800 Block Harvard Street NW

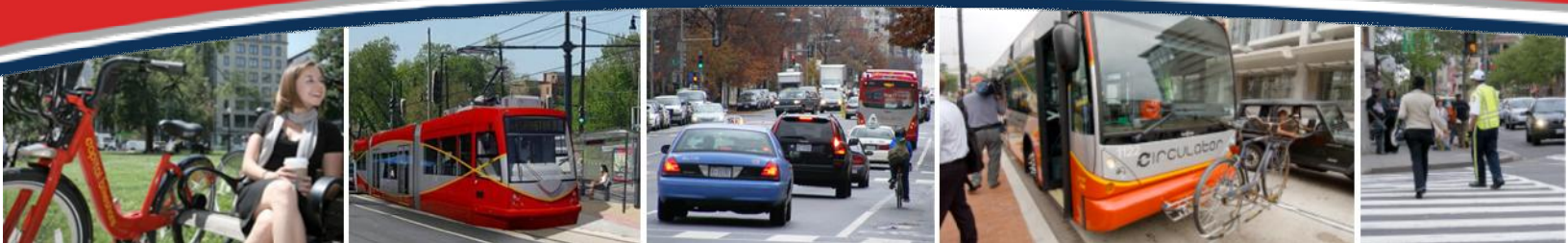
#### Study Area and Location

District	PSA	Ward	ANC	Phase	Description
3	302	1	1C	Proposed	1800 Block Harvard Street Northwest, northwest-bound



The *proposed* speed camera will be located in Ward 1 at the 1800 block of Harvard Street Northwest in the northwest-bound direction. Harvard Street runs between North Road to the west and 16<sup>th</sup> Street Northwest to the east. The posted speed limit is 25 MPH.

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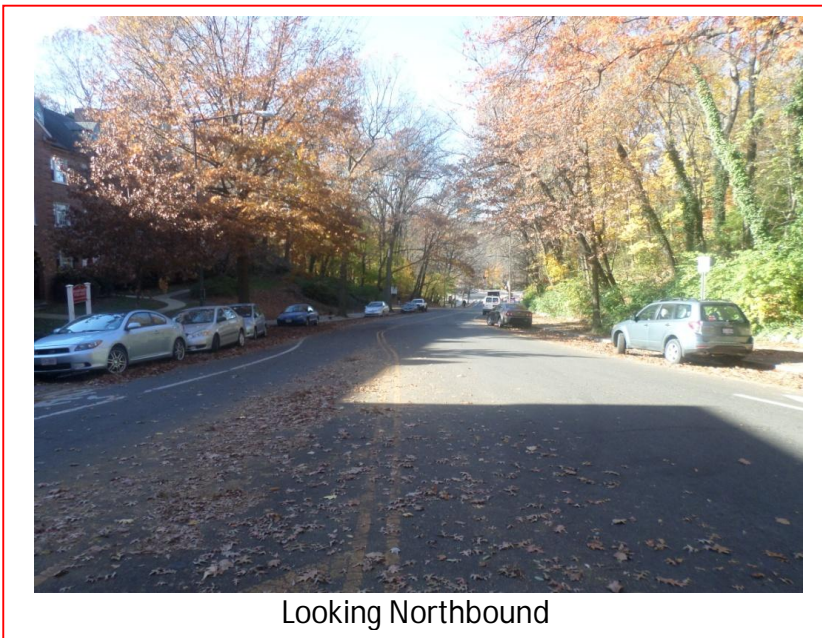
District Department of Transportation

1800 Block Harvard Street NW

## Field Assessment Summary

Harvard Street is assumed to run in a Northwest-Southeast direction, and is classified as a minor arterial. Harvard Street has one through lane in each direction with a left turn lane northwest-bound at Beach Drive Northwest. This site has the following characteristics:

- This site is located in a residential area with apartments, on-street parking, and sidewalk with curb gutter and drainage inlets, on both sides of the street.
- There is a concrete median near Adams Mill Road and grassy island at beginning of block where two-way traffic on Harvard Street begins.
- There is a shared use lane in the northwest-bound direction and a bicycle lane in the southeast-bound direction.
- There is an existing traffic signal and crosswalks with pedestrian signals at Adams Mill Road. The existing pavement is in fair condition and there is a downhill slope in the northwest-bound direction.
- There are two schools in this area: Lincoln Middle School and HD Cooke Elementary School.
- There is a bus stop in the northwest-bound direction prior to the intersection with Adams Mill Road as well as other bus stops in the area.





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1800 Block Harvard Street NW



Looking Southbound

## Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	25
85th Percentile Speed (MPH)	31
10 MPH Pace Speed	23-32
ADT	2,486

The mean speed is the same as the posted speed limit and the 85<sup>th</sup> percentile speed is 6 MPH higher than the posted speed limit at this location.

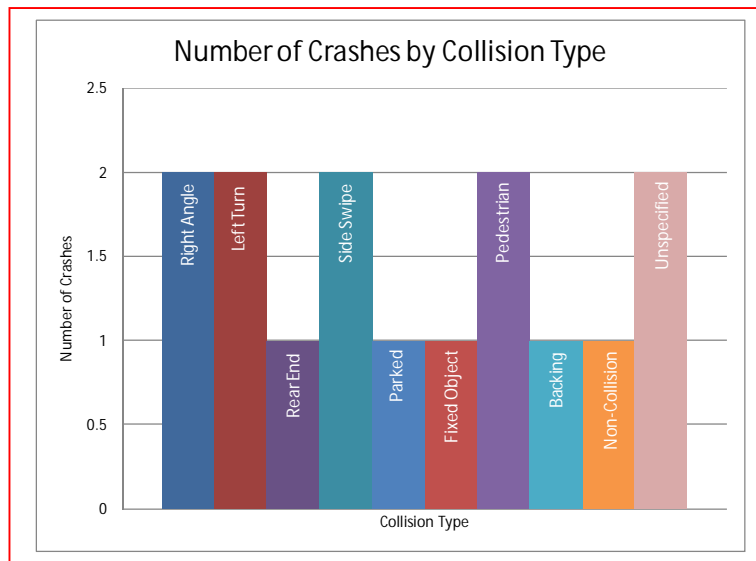
## Crash Data Analysis

From the Accident Summary Report provided for the dates between January 1, 2010 and December 31, 2012, there were a total of 15 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 with two crashes each were Side Swiped, Right Angle, Left Turn, Pedestrian Involved, and Unspecified. The other collision types had one crash or less. Furthermore, this site experienced eight injury-involved crashes.

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Severity			Weather			Surface condition			Light Condition		
Total	15										
Fatal	0	0.0%	Clear	13	86.7%	Dry	13	86.7%	Day	12	80.0%
Injury	8	53.3%	Rain	2	13.3%	Wet	2	13.3%	Night	3	20.0%
Taxi	2	13.3%	Fog/Mist	0	0.0%	Repairing	0	0.0%			
Bicycle	2	13.3%									



## 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 85<sup>th</sup> percentile speed is much higher than the posted speed limit at this location.
2. Crash Data – This location experienced eight injury-related crashes.
3. Field Assessment – The following site characteristics suggest a need for a safer travel environment:
  - a. Residential area with apartments on both sides of the street.
  - b. There are two schools in this area: Lincoln Middle School and HD Cooke Elementary School.
  - c. Rock Creek Park Trails are in the area which generates pedestrian activity.
  - d. There are multiple bus stops in the area which generate pedestrian activity.
  - e. There is on-street parking in this location.



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1800 Block Harvard Street NW

Due to the speed data analysis, 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](http://www.sammateng.com)

## 1800 block of Harvard St NW NWB Speed

NWB

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
11/04/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	8	1	1	3	2	2	0	0	0	0	0	0	0	0	17
02:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
03:00	0	0	1	2	0	0	0	0	0	0	0	0	0	0	3
04:00	0	1	1	0	2	0	0	0	0	0	0	0	0	0	4
05:00	2	3	3	12	10	2	1	1	0	0	0	0	0	0	34
06:00	0	3	19	29	15	3	0	0	0	0	0	0	0	0	69
07:00	8	18	61	97	67	10	1	0	0	0	0	0	0	0	262
08:00	4	18	102	133	64	4	0	0	0	0	0	0	0	0	325
09:00	7	10	55	61	23	1	1	0	0	0	0	0	0	0	158
10:00	6	6	22	39	16	7	1	0	0	0	0	0	0	0	97
11:00	6	5	23	51	23	8	0	0	0	0	0	0	0	0	116
12 PM	3	5	30	41	17	2	1	0	0	0	0	0	0	0	99
13:00	8	12	25	37	19	3	0	0	0	0	0	0	0	0	104
14:00	7	12	34	55	26	6	0	0	0	0	0	0	0	0	140
15:00	8	14	42	64	24	5	0	0	0	0	0	0	0	0	157
16:00	5	5	33	62	30	5	0	0	0	0	0	0	0	0	140
17:00	7	15	41	74	32	11	0	0	0	0	0	0	0	0	180
18:00	8	9	33	88	35	1	0	1	0	0	0	0	0	0	175
19:00	11	15	36	51	15	5	0	0	0	0	0	0	0	0	133
20:00	15	6	20	33	11	3	0	0	0	0	0	0	0	0	88
21:00	4	4	15	29	5	3	0	0	0	0	0	0	0	0	60
22:00	3	10	11	21	9	2	0	0	0	0	0	0	0	0	56
23:00	4	1	11	5	10	3	0	0	0	0	0	0	0	0	34
Total	124	173	619	988	455	86	5	2	0	0	0	0	0	0	2452

# SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD  
MOUNT AIRY, MD 21771

[www.sammateng.com](http://www.sammateng.com)

## 1800 block of Harvard St NW NWB Speed

### NWB

Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	
	15	20	25	30	35	40	45	50	55	60	65	70	75	999	76	
11/05/13	14	5	4	6	4	1	0	0	0	0	0	0	0	0	0	34
01:00	0	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	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<b>Total</b>	<b>14</b>	<b>5</b>	<b>4</b>	<b>6</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>34</b>
<b>Grand Total</b>	<b>138</b>	<b>178</b>	<b>623</b>	<b>994</b>	<b>459</b>	<b>87</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2486</b>

15th Percentile : 16 MPH  
 50th Percentile : 25 MPH  
 85th Percentile : 31 MPH  
 95th Percentile : 35 MPH

Stats  
 Mean Speed(Average) : 25 MPH  
 10 MPH Pace Speed : 23-32 MPH  
 Number in Pace : 1436  
 Percent in Pace : 57.8%  
 Number of Vehicles > 25 MPH : 1391  
 Percent of Vehicles > 25 MPH : 55.9%

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1515 RISING RIDGE ROAD  
MOUNT AIRY, MD 21771

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## 1800 block of Harvard St NW NWB Volume

Start Time	Mon	04-Nov-13	Tue	05-Nov-13	Wed	06-Nov-13	Daily Average	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	*	25	4	*	*	*	4	25
12:15	*	25	13	*	*	*	13	25
12:30	*	23	9	*	*	*	9	23
12:45	*	26	8	*	*	*	8	26
01:00	9	19	*	*	*	*	9	19
01:15	2	28	*	*	*	*	2	28
01:30	1	27	*	*	*	*	1	27
01:45	5	30	*	*	*	*	5	30
02:00	0	32	*	*	*	*	0	32
02:15	0	27	*	*	*	*	0	27
02:30	0	36	*	*	*	*	0	36
02:45	1	45	*	*	*	*	1	45
03:00	1	34	*	*	*	*	1	34
03:15	0	44	*	*	*	*	0	44
03:30	0	37	*	*	*	*	0	37
03:45	2	42	*	*	*	*	2	42
04:00	2	27	*	*	*	*	2	27
04:15	1	37	*	*	*	*	1	37
04:30	1	34	*	*	*	*	1	34
04:45	0	42	*	*	*	*	0	42
05:00	2	39	*	*	*	*	2	39
05:15	9	44	*	*	*	*	9	44
05:30	11	51	*	*	*	*	11	51
05:45	12	46	*	*	*	*	12	46
06:00	16	45	*	*	*	*	16	45
06:15	10	42	*	*	*	*	10	42
06:30	17	40	*	*	*	*	17	40
06:45	26	48	*	*	*	*	26	48
07:00	44	42	*	*	*	*	44	42
07:15	49	36	*	*	*	*	49	36
07:30	86	30	*	*	*	*	86	30
07:45	83	25	*	*	*	*	83	25
08:00	100	20	*	*	*	*	100	20
08:15	79	28	*	*	*	*	79	28
08:30	82	17	*	*	*	*	82	17
08:45	64	23	*	*	*	*	64	23
09:00	31	18	*	*	*	*	31	18
09:15	54	18	*	*	*	*	54	18
09:30	40	14	*	*	*	*	40	14
09:45	33	10	*	*	*	*	33	10
10:00	30	12	*	*	*	*	30	12
10:15	26	14	*	*	*	*	26	14
10:30	23	17	*	*	*	*	23	17
10:45	18	13	*	*	*	*	18	13
11:00	36	5	*	*	*	*	36	5
11:15	32	8	*	*	*	*	32	8
11:30	22	10	*	*	*	*	22	10
11:45	26	11	*	*	*	*	26	11
Total	1086	1366	34	0	0	0	1120	1366
Combined Total	2452		34		0		2486	
Peak	07:30	05:15	12:00				07:30	05:15
Vol.	348	186	34				348	186
P.H.F.	0.870	0.912	0.654				0.870	0.912
ADT	ADT 2,486		AADT 2,486					



## Accident Summary Report (R-8)

**Corridor:** HARVARD ST,NW From ADAMS MILL RD (EAST),NW TO LANIER PL,NW

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

**Prepared By:** Rahul Jain

**Prepared Date:** 9/15/2013

Total Number of Accident:	15	<b>Collision Type</b>	<b>#ACC</b>	<b>%</b>	<b>Collision Type</b>	<b>#ACC</b>	<b>%</b>
Total Number of Fatalities:	0	Right Angle:	2	13.3%	Fixed Object:	1	6.7%
Total Number of Injuries:	8	Left Turn:	2	13.3%	Ran Off Road:	0	0.0%
Total Number of Disabling Injuries:	1	Right Turn:	0	0.0%	Ped. Involved:	2	13.3%
Total Number of NonDisabling Injuries:	2	Rear End:	1	6.7%	Backing:	1	6.7%
Total Number of Pedestrians Involved:	3	Side Swiped:	2	13.3%	Non Collision:	1	6.7%
Total Number of Bicycles Involved:	2	Head On:	0	0.0%	Under/Over Ride:	0	0.0%
Total Number of Motorcycles Involved:	1	Parked:	1	6.7%	Unspecified:	2	13.3%
<b>Time of Day</b>				<b>Day of week</b>			
	<b>#ACC</b>	<b>%</b>			<b>#ACC</b>	<b>%</b>	
07:30 ~ 09:30:	2	13.3%		Sunday:	3	20.0%	
09:30 ~ 11:30:	1	6.7%		Monday:	1	6.7%	
11:30 ~ 13:30:	3	20.0%		Tuesday:	3	20.0%	
13:30 ~ 16:00:	3	20.0%		Wednesday:	1	6.7%	
16:00 ~ 18:30:	3	20.0%		Thursday:	1	6.7%	
18:30 ~ 07:30:	3	20.0%		Friday:	2	13.3%	
Unspecified:	0	0.0%		Saturday:	4	26.7%	
<b>Weather Condition</b>				<b>Surface Condition</b>			
	<b>#ACC</b>	<b>%</b>			<b>#ACC</b>	<b>%</b>	
Clear:	13	86.7%		Dry:	13	86.7%	
Rain:	2	13.3%		Wet:	2	13.3%	
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:	0	0.0%		Unspecified:	0	0.0%	
<b>Type of Vehicle</b>				<b>Accident Severity Type</b>			
	<b>#VEH</b>	<b>%</b>			<b>#ACC</b>	<b>%</b>	
Passenger Car:	16	66.7%		Fatal Collision:	0	0.0%	
Bus:	1	4.2%		Injury Collision:	8	53.3%	
Truck:	1	4.2%		PDO Collision:	7	46.7%	
Taxi:	2	8.3%		<b>Light Condition</b>			
Minivan:	0	0.0%			<b>#ACC</b>	<b>%</b>	
Police/Emergency Vehicle:	0	0.0%		Daylight:	12	80.0%	
Motorcycle/Moped:	1	4.2%		Dawn/Dusk:	0	0.0%	
Bicycle:	2	8.3%		Dark(Lighted):	3	20.0%	
Fixed Object:	0	0.0%		Dark(Not Lighted):	0	0.0%	
Unspecified:	1	4.2%		Dark(Unknown Lighting):	0	0.0%	
				Unspecified:	0	0.0%	
<b>Contributing Factor</b>				<b>Pedestrian Actions</b>			
	<b>#VEH</b>	<b>%</b>			<b>#ACC</b>	<b>%</b>	
Driver: Speed:	0	0.0%		In Crosswalk with Signal:	0	0.0%	
Driver: Alcohol/Drug:	0	0.0%		In Crosswalk against Signal:	0	0.0%	
Driver: Electronic Device:	0	0.0%		In Crosswalk no Signal:	0	0.0%	
Driver: Others:	4	16.7%		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:	20	83.3%		Unspecified:	2	100.0%	

12 Records are not approved as of 9/15/2013 10:21:25 PM