



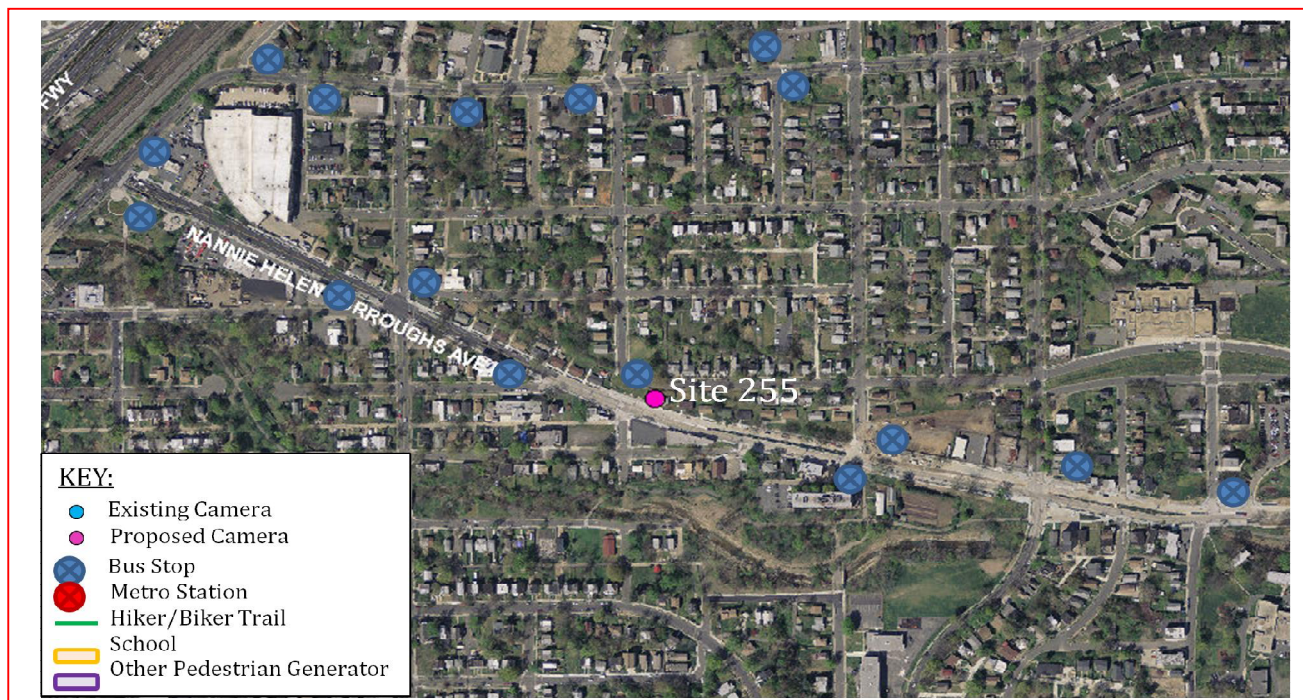
District Department of Transportation

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

### 4600 Nannie Helen Burroughs Avenue NE

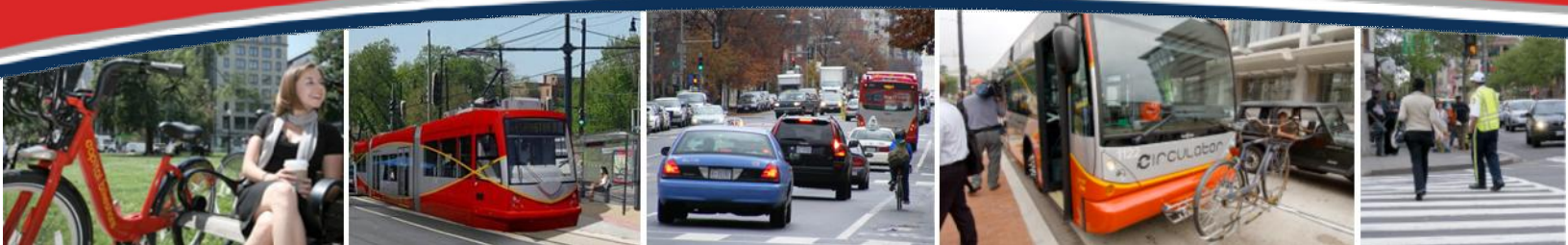
#### Study Area and Location

District	PSA	Ward	ANC	Phase	Description
6	602	7	7C	Proposed	4600 Block Nannie Helen Burroughs Avenue Northeast, Northwest-bound



This *proposed* speed camera will be located in Ward 7 at the 4600 block of Nannie Helen Burroughs Avenue Northeast in the northwest-bound direction. Nannie Helen Burroughs Avenue Northeast runs between Eastern Avenue Northeast to the east and Kenilworth Avenue Northeast to the west. The posted speed limit is 25 MPH.

W7 - 354





District Department of Transportation

4600 Nannie Helen Burroughs Avenue NE

## Field Assessment Summary

Nannie Helen Burroughs Avenue Northeast is assumed to run in the northwest-southeast direction and is classified as minor arterial. Nannie Helen Burroughs Avenue Northeast has one travel lane in each direction. This site has the following characteristics:

- This is a residential area with houses and driveways.
- There is a grassy median and sidewalks on both sides of the street.
- There is a crosswalk at 46<sup>th</sup> Street Northeast.
- The pavement is in good condition and there is curb and gutter with drainage inlets.
- There is on-street parking on both sides of the street and there are shared use bicycle markings in the travel lanes.
- There is a bus stop northwest-bound at 46<sup>th</sup> Street.



Looking Northwest-bound

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District Department of Transportation

4600 Nannie Helen Burroughs Avenue NE



Looking Northwest-bound

## Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	29
85th Percentile Speed (MPH)	35
10 MPH Pace Speed	26-35
ADT	5,732

The mean speed is higher than the posted speed limit by 6 MPH, and the 85<sup>th</sup> percentile speed is higher than the posted speed limit by 10 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 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 were Side Swipe (4 crashes) and Rear End (3 crashes). The other collision types had 2 crashes or less each. There was one crash where vehicular speeding was the contributing factor. Furthermore, the location experienced 7 injury-related crashes.

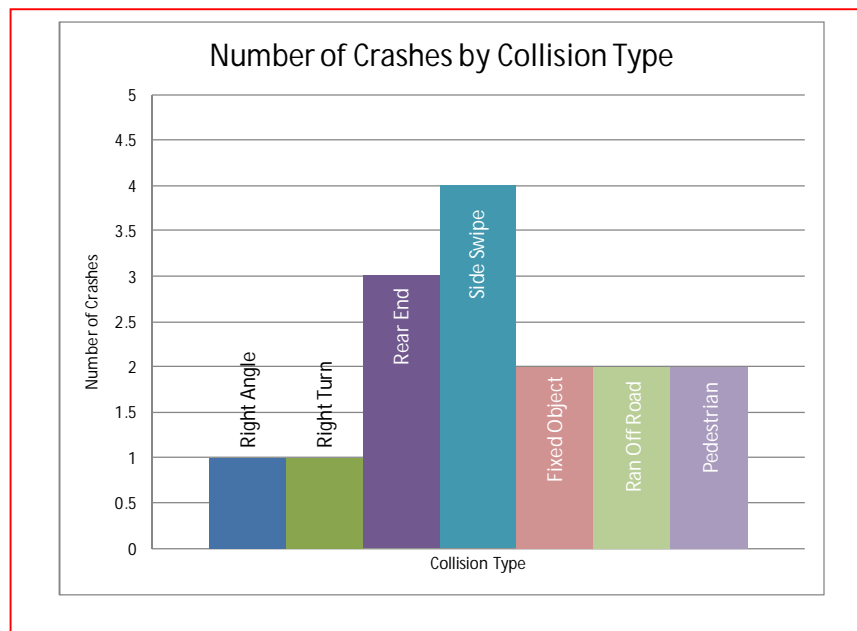
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District Department of Transportation

4600 Nannie Helen Burroughs Avenue NE

Severity			Weather			Surface condition			Light Condition		
Total	15										
Fatal	0	0.0%	Clear	14	93.3%	Dry	12	80.0%	Day	12	80.0%
Injury	7	46.7%	Rain	1	6.7%	Wet	1	6.7%	Night	3	20.0%
Bus	2	13.3%	Snow	0	0.0%	Snow/Ice	0	0.0%			
Truck	1	6.7%									



## Safety Nexus

This site presents the following safety considerations which may establish a nexus between traffic safety and the speed camera:

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 7 injury-related crashes. There was 1 crash where vehicular speeding was the contributing factor.
3. Field Assessment – The following site characteristics suggest a need for a safer travel environment:
  - a. This is a residential area with houses and driveways.
  - b. There are several bus stops in the area which generate pedestrian activity.

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

W7 - 357

# SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD  
MOUNT AIRY, MD 21771

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

## 4600 Block of N H Burroughs Ave NE NWB Speed

NWB															
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/23/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	0	2	3	8	18	6	6	2	0	0	0	0	0	0	45
04:00	0	1	6	14	15	14	3	3	2	0	0	0	0	0	58
05:00	0	0	2	16	22	12	4	3	2	0	1	0	0	0	62
06:00	0	1	16	28	51	20	7	3	0	0	0	0	0	0	126
07:00	1	1	8	61	72	37	12	2	0	0	0	0	0	0	194
08:00	0	0	14	84	104	58	12	1	1	0	0	0	0	0	274
09:00	1	2	49	94	109	43	10	3	0	0	0	0	0	0	311
10:00	1	4	32	116	135	47	16	2	0	0	0	0	0	0	353
11:00	5	7	34	147	131	38	11	1	0	0	0	0	0	0	374
12 PM	3	21	33	156	135	37	6	1	0	0	0	0	0	0	392
13:00	137	3	29	85	84	22	6	3	0	0	0	0	0	0	369
14:00	85	1	14	90	117	39	6	0	1	0	0	0	0	0	353
15:00	0	3	37	140	144	43	5	3	0	0	0	0	0	0	375
16:00	3	4	41	134	123	57	5	1	1	0	0	0	0	0	369
17:00	1	4	45	125	122	31	8	0	0	0	0	0	0	0	336
18:00	3	2	48	127	112	26	1	0	2	0	0	0	0	0	321
19:00	0	2	30	107	121	30	5	0	0	0	0	0	0	0	295
20:00	1	4	32	89	98	26	5	0	1	0	0	1	0	0	257
21:00	0	0	13	79	84	27	5	1	1	1	0	0	0	0	211
22:00	0	1	11	59	79	34	5	3	0	0	0	0	0	0	192
23:00	0	0	20	77	75	26	4	1	0	0	0	0	0	0	203
Total	241	63	517	1836	1951	673	142	33	11	1	1	1	0	0	5470

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## 4600 Block of N H Burroughs Ave NE NWB Speed

NWB															
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/24/13	1	0	11	37	43	15	4	0	0	1	0	0	0	0	112
01:00	0	1	7	20	29	10	7	0	0	0	0	0	0	0	74
02:00	0	0	9	25	34	5	3	0	0	0	0	0	0	0	76
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	1	1	27	82	106	30	14	0	0	1	0	0	0	0	262
Grand Total	242	64	544	1918	2057	703	156	33	11	2	1	1	0	0	5732

15th Percentile : 23 MPH  
 50th Percentile : 29 MPH  
 85th Percentile : 35 MPH  
 95th Percentile : 39 MPH

Stats  
 Mean Speed(Average) : 29 MPH  
 10 MPH Pace Speed : 26-35 MPH  
 Number in Pace : 3510  
 Percent in Pace : 61.2%  
 Number of Vehicles > 25 MPH : 4538  
 Percent of Vehicles > 25 MPH : 79.2%

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## 4600 Block of N H Burroughs Ave NE NWB Volume

Start Time	23-Nov-13		24-Nov-13		25-Nov-13		Daily Average	
	Sat A.M.	P.M.	Sun A.M.	P.M.	Mon A.M.	P.M.	A.M.	P.M.
12:00	*	106	29	*	*	*	29	106
12:15	*	99	23	*	*	*	23	99
12:30	*	98	37	*	*	*	37	98
12:45	*	89	23	*	*	*	23	89
01:00	*	100	22	*	*	*	22	100
01:15	*	111	17	*	*	*	17	111
01:30	*	84	19	*	*	*	19	84
01:45	*	74	16	*	*	*	16	74
02:00	*	92	24	*	*	*	24	92
02:15	*	95	22	*	*	*	22	95
02:30	*	91	16	*	*	*	16	91
02:45	*	75	14	*	*	*	14	75
03:00	12	104	*	*	*	*	12	104
03:15	16	91	*	*	*	*	16	91
03:30	8	85	*	*	*	*	8	85
03:45	9	95	*	*	*	*	9	95
04:00	16	98	*	*	*	*	16	98
04:15	15	81	*	*	*	*	15	81
04:30	14	94	*	*	*	*	14	94
04:45	13	96	*	*	*	*	13	96
05:00	13	85	*	*	*	*	13	85
05:15	15	90	*	*	*	*	15	90
05:30	13	86	*	*	*	*	13	86
05:45	21	75	*	*	*	*	21	75
06:00	20	93	*	*	*	*	20	93
06:15	34	78	*	*	*	*	34	78
06:30	36	74	*	*	*	*	36	74
06:45	36	76	*	*	*	*	36	76
07:00	56	75	*	*	*	*	56	75
07:15	35	70	*	*	*	*	35	70
07:30	44	80	*	*	*	*	44	80
07:45	59	70	*	*	*	*	59	70
08:00	67	72	*	*	*	*	67	72
08:15	65	57	*	*	*	*	65	57
08:30	71	70	*	*	*	*	71	70
08:45	71	58	*	*	*	*	71	58
09:00	64	46	*	*	*	*	64	46
09:15	99	54	*	*	*	*	99	54
09:30	71	49	*	*	*	*	71	49
09:45	77	62	*	*	*	*	77	62
10:00	96	51	*	*	*	*	96	51
10:15	81	42	*	*	*	*	81	42
10:30	81	48	*	*	*	*	81	48
10:45	95	51	*	*	*	*	95	51
11:00	83	74	*	*	*	*	83	74
11:15	87	47	*	*	*	*	87	47
11:30	106	42	*	*	*	*	106	42
11:45	98	40	*	*	*	*	98	40
Total	1797	3673	262	0	0	0	2059	3673
Combined Total	5470		262		0		5732	
Peak	11:00	00:30	12:00				11:00	00:30
Vol.	374	398	112				374	398
P.H.F.	0.882	0.896	0.757				0.882	0.896
ADT	ADT 5,732		AADT 5,732					

DC Department of Transportation - Traffic Accident Reporting and Analysis System

## Accident Summary Report (R-8)

**Corridor:** NANNIE HELEN BURROUGHS AVE,NE From FORTY SIXTH ST,NE TO FORTY EIGHTH ST,NE  
**Time Period Covered:** From 01/01/2010 To 12/31/2012    **Prepared By:** Rahul Jain    **Prepared Date:** 9/16/2013

		<b>Collision Type</b>	<b>#ACC</b>	<b>%</b>	<b>Collision Type</b>	<b>#ACC</b>	<b>%</b>
Total Number of Accident:	15	Right Angle:	1	6.7%	Fixed Object:	2	13.3%
Total Number of Fatalities:	0	Left Turn:	0	0.0%	Ran Off Road:	2	13.3%
Total Number of Injuries:	9	Right Turn:	1	6.7%	Ped. Involved:	2	13.3%
Total Number of Disabling Injuries:	1	Rear End:	3	20.0%	Backing:	0	0.0%
Total Number of NonDisabling Injuries:	0	Side Swiped:	4	26.7%	Non Collision:	0	0.0%
Total Number of Pedestrians Involved:	2	Head On:	0	0.0%	Under/Over Ride:	0	0.0%
Total Number of Bicycles Involved:	0	Parked:	0	0.0%	Unspecified:	0	0.0%
Total Number of Motorcycles Involved:	0						

<b>Time of Day</b>	<b>#ACC</b>	<b>%</b>	<b>Day o fweek</b>	<b>#ACC</b>	<b>%</b>
07:30 ~ 09:30:	1	6.7%	Sunday:	1	6.7%
09:30 ~ 11:30:	0	0.0%	Monday:	2	13.3%
11:30 ~ 13:30:	3	20.0%	Tuesday:	2	13.3%
13:30 ~ 16:00:	3	20.0%	Wednesday:	0	0.0%
16:00 ~18:30:	3	20.0%	Thursday:	2	13.3%
18:30 ~ 07:30:	5	33.3%	Friday:	5	33.3%
Unspecified:	0	0.0%	Saturday:	3	20.0%

<b>Weather Condition</b>	<b>#ACC</b>	<b>%</b>	<b>Surface Condition</b>	<b>#ACC</b>	<b>%</b>
Clear:	14	93.3%	Dry:	12	80.0%
Rain:	1	6.7%	Wet:	1	6.7%
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:	2	13.3%
Unspecified:	0	0.0%	Unspecified:	0	0.0%

<b>Type of Vehicle</b>	<b>#VEH</b>	<b>%</b>	<b>Accident Severity Type</b>	<b>#ACC</b>	<b>%</b>
Passenger Car:	22	75.9%	Fatal Collision:	0	0.0%
Bus:	2	6.9%	Injury Collision:	7	46.7%
Truck:	1	3.4%	PDO Collision:	8	53.3%
Taxi:	0	0.0%			
Minivan:	0	0.0%	<b>Light Condition</b>	<b>#ACC</b>	<b>%</b>
Police/Emergency Vehicle:	1	3.4%	Daylight:	12	80.0%
Motorcycle/Moped:	0	0.0%	Dawn/Dusk:	0	0.0%
Bicycle:	0	0.0%	Dark(Lighted):	3	20.0%
Fixed Object:	0	0.0%	Dark(Not Lighted):	0	0.0%
Unspecified:	3	10.3%	Dark(Unknown Lighting):	0	0.0%
			Unspecified:	0	0.0%

<b>Contributing Factor</b>	<b>#VEH</b>	<b>%</b>	<b>Pedestrian Actions</b>	<b>#ACC</b>	<b>%</b>
Driver: Speed:	1	3.4%	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:	9	31.0%	In Unmarked Crosswalk:	0	0.0%
Vehicle:	0	0.0%	Not in Crosswalk:	1	50.0%
Roadway:	0	0.0%	From Between Parked Cars:	0	0.0%
Unspecified:	19	65.5%	Unspecified:	1	50.0%

12 Records are not approved as of 9/16/2013 10:13:03 AM