



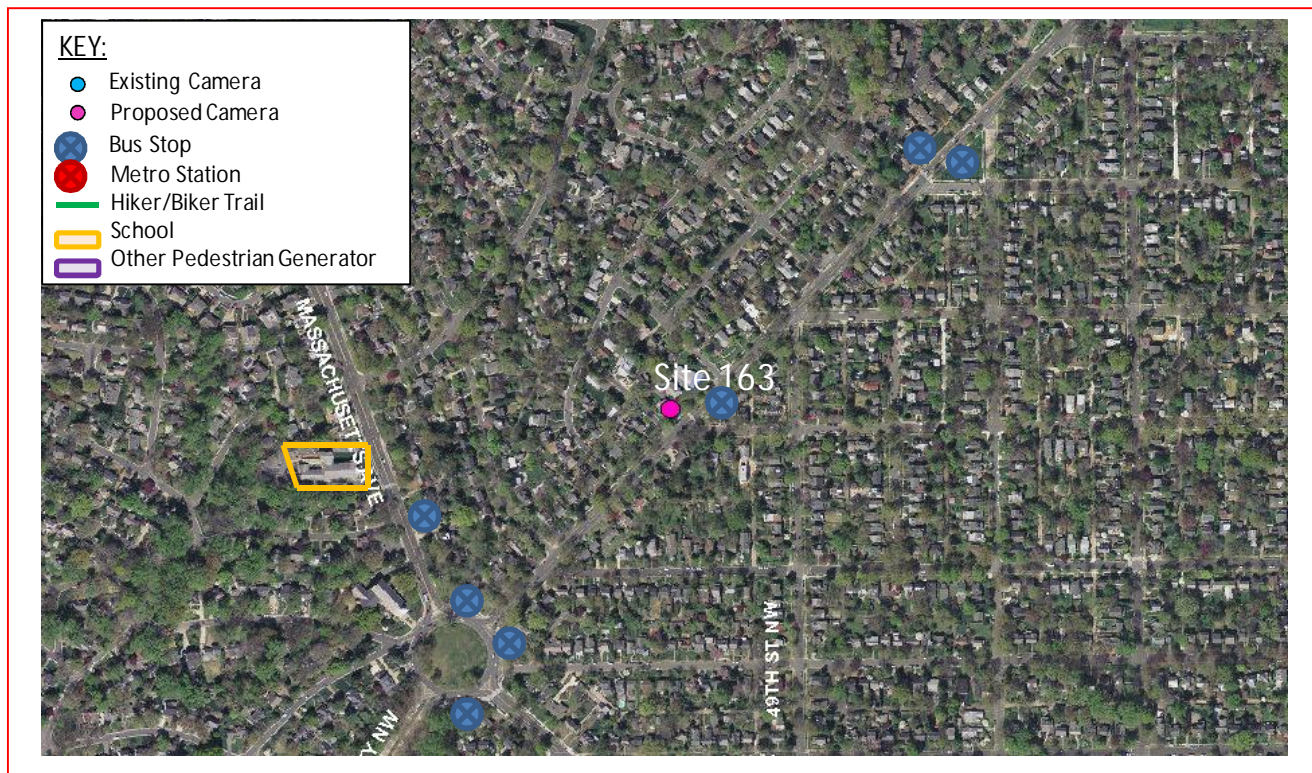
District Department of Transportation

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

4700 Block Western Avenue NW

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
2	202	3	3E	Proposed	4700 Block Western Avenue Northwest Northeast-bound



The *proposed* speed camera will be located in Ward 3 at the 4700 block of Western Avenue Northwest in the northeast-bound direction. Western Avenue Northwest runs from Eastern Avenue Northwest to the northeast to Dalecarlia Parkway Northwest to the southwest. The posted speed limit is 25 MPH.

W3 - 307





District Department of Transportation

4700 Block Western Avenue NW

Field Assessment Summary

Western Avenue is assumed to run in a northeast-southwest direction, and is classified as a minor arterial. This site has the following characteristics:

- This is a residential area with houses and driveways.
- There is one school in the area: Abingdon Montessori School.
- There is sidewalk on the northwest side of the street and on-street parking on both sides of the street. There is a crosswalk at Chesapeake Street.
- The pavement is in fair condition and there is curb and gutter with drainage inlets.
- There is a bus stop in both directions between Berkley Street and Chesapeake Street.



Looking Northeast-bound

W3 - 308



District Department of Transportation

4700 Block Western Avenue NW



Looking Northeast-bound

Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	26
85th Percentile Speed (MPH)	29
10 MPH Pace Speed (MPH)	22-31
ADT	4,850

The mean speed is higher than the posted speed limit by 1 MPH and the 85th percentile speed is higher than the posted speed by 4 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 four 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 type of collision at this location was Rear End with two crashes. Each of the other collision types had one crash or less.

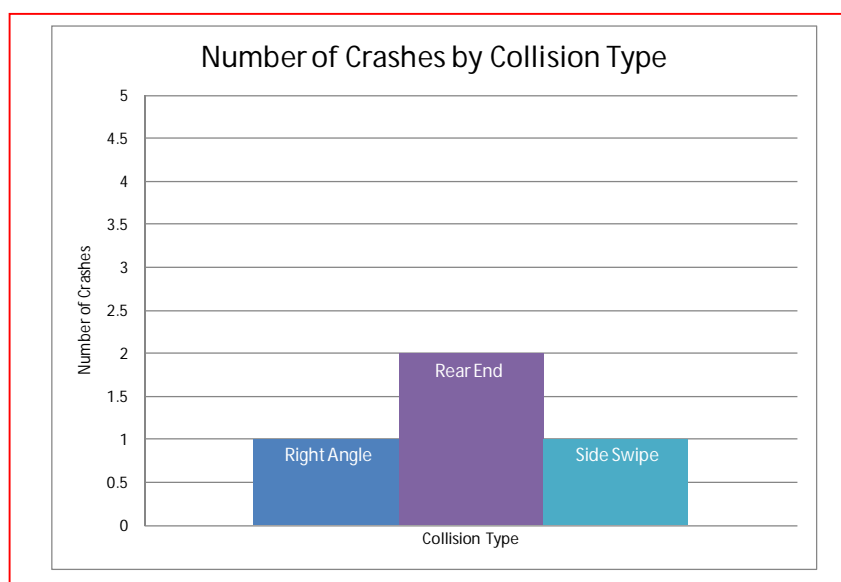
W3 - 309



District Department of Transportation

4700 Block Western Avenue NW

Severity			Weather			Surface condition			Light Condition		
Total	4										
Fatal	0	0.0%	Clear	4	100.0%	Dry	4	100.0%	Day	4	100.0%
Injury	1	25.0%	Rain	0	0.0%	Wet	0	0.0%	Night	0	0.0%
Taxi	0	0.0%	Snow	0	0.0%	Snow/Ice	0	0.0%			
Bus	2	50.0%									



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 85th percentile speed is higher than the posted speed limit at this location.
2. Crash Data – The crash data analysis shows a low number of crashes at this location.
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 is one school in the area: Abingdon Montessori School.
 - c. There are multiple bus stops in the area which generate pedestrian activity.
 - d. There is on-street parking on both sides of the street.

W3 - 310



District Department of Transportation

4700 Block Western Avenue NW

Although the crash data analysis showed a low number of crashes at this location, due to the speed data analysis, the specific site characteristics, and pedestrian generators, there is a nexus between traffic safety and the speed camera at this location.

W3 - 311

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

4700 block of Western Ave NW NEB Speed

NEB															
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
11/09/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	0	0	4	4	0	0	0	0	0	0	0	0	0	0	8
02:00	1	1	11	13	3	0	0	0	0	0	0	0	0	0	29
03:00	0	0	4	4	0	1	0	0	0	0	0	0	0	0	9
04:00	0	0	1	3	3	0	0	0	0	0	0	0	0	0	7
05:00	2	1	1	2	0	0	0	0	0	0	0	0	0	0	6
06:00	1	2	1	6	1	0	0	0	0	0	0	0	0	0	11
07:00	0	2	11	22	10	2	1	0	0	0	0	0	0	0	48
08:00	0	3	30	70	30	3	1	0	0	0	0	0	0	0	137
09:00	0	3	47	131	39	5	0	0	0	0	0	0	0	0	225
10:00	1	2	75	149	56	2	0	0	0	0	0	0	0	0	285
11:00	6	11	106	84	6	0	0	0	0	0	0	0	0	0	213
12 PM	7	18	152	186	26	1	0	0	0	0	0	0	0	0	390
13:00	2	3	97	207	47	3	0	0	0	0	0	0	0	0	359
14:00	1	6	123	224	40	1	0	0	0	0	0	0	0	0	395
15:00	3	12	131	182	38	6	0	0	0	0	0	0	0	0	372
16:00	2	12	142	194	33	0	0	0	0	0	0	0	0	0	383
17:00	2	1	135	201	32	1	0	0	0	0	0	0	0	0	372
18:00	4	22	163	141	11	0	0	0	0	0	0	0	0	0	341
19:00	4	15	163	146	19	0	0	0	0	0	0	0	0	0	347
20:00	4	9	90	135	20	0	0	0	0	0	0	0	0	0	258
21:00	3	3	49	82	12	0	0	0	0	0	0	0	0	0	149
22:00	3	4	55	70	13	1	0	0	0	0	0	0	0	0	146
23:00	2	5	58	84	20	1	0	0	0	0	0	0	0	0	170
Total	48	135	1649	2340	459	27	2	0	0	0	0	0	0	0	4660

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

4700 block of Western Ave NW 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
11/10/13	0	6	51	73	9	0	0	0	0	0	0	0	0	0	139
01:00	0	2	20	25	4	0	0	0	0	0	0	0	0	0	51
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	0	8	71	98	13	0	0	0	0	0	0	0	0	0	190
Grand Total	48	143	1720	2438	472	27	2	0	0	0	0	0	0	0	4850
15th Percentile : 21 MPH 50th Percentile : 25 MPH 85th Percentile : 29 MPH 95th Percentile : 32 MPH															
Stats Mean Speed(Average) : 26 MPH 10 MPH Pace Speed : 22-31 MPH Number in Pace : 3683 Percent in Pace : 75.9% Number of Vehicles > 25 MPH : 2790 Percent of Vehicles > 25 MPH : 57.5%															

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

4700 block of Western Ave NW NEB Volume

Start Time	Sat A.M.	09-Nov-13 P.M.	Sun A.M.	10-Nov-13 P.M.	Mon A.M.	11-Nov-13 P.M.	Daily Average	
							A.M.	P.M.
12:00	*	83	39	*	*	*	39	83
12:15	*	81	39	*	*	*	39	81
12:30	*	98	34	*	*	*	34	98
12:45	*	128	27	*	*	*	27	128
01:00	*	95	14	*	*	*	14	95
01:15	*	78	18	*	*	*	18	78
01:30	*	89	19	*	*	*	19	89
01:45	8	97	*	*	*	*	8	97
02:00	6	88	*	*	*	*	6	88
02:15	12	117	*	*	*	*	12	117
02:30	8	97	*	*	*	*	8	97
02:45	3	93	*	*	*	*	3	93
03:00	3	88	*	*	*	*	3	88
03:15	2	84	*	*	*	*	2	84
03:30	2	90	*	*	*	*	2	90
03:45	2	110	*	*	*	*	2	110
04:00	1	93	*	*	*	*	1	93
04:15	3	95	*	*	*	*	3	95
04:30	1	90	*	*	*	*	1	90
04:45	2	105	*	*	*	*	2	105
05:00	5	105	*	*	*	*	5	105
05:15	0	106	*	*	*	*	0	106
05:30	1	89	*	*	*	*	1	89
05:45	0	72	*	*	*	*	0	72
06:00	4	82	*	*	*	*	4	82
06:15	4	94	*	*	*	*	4	94
06:30	2	82	*	*	*	*	2	82
06:45	1	83	*	*	*	*	1	83
07:00	5	76	*	*	*	*	5	76
07:15	14	80	*	*	*	*	14	80
07:30	13	88	*	*	*	*	13	88
07:45	16	103	*	*	*	*	16	103
08:00	23	79	*	*	*	*	23	79
08:15	32	68	*	*	*	*	32	68
08:30	49	60	*	*	*	*	49	60
08:45	33	51	*	*	*	*	33	51
09:00	49	47	*	*	*	*	49	47
09:15	45	40	*	*	*	*	45	40
09:30	64	28	*	*	*	*	64	28
09:45	67	34	*	*	*	*	67	34
10:00	60	35	*	*	*	*	60	35
10:15	65	37	*	*	*	*	65	37
10:30	81	32	*	*	*	*	81	32
10:45	79	42	*	*	*	*	79	42
11:00	17	44	*	*	*	*	17	44
11:15	21	45	*	*	*	*	21	45
11:30	94	34	*	*	*	*	94	34
11:45	81	47	*	*	*	*	81	47
Total	978	3682	190	0	0	0	1168	3682
Combined Total	4660		190		0		4850	
Peak	10:00	04:30	12:00				10:00	04:30
Vol.	285	406	139				285	406
P.H.F.	0.880	0.793	0.891				0.880	0.793
ADT		ADT 4,850	AADT 4,850					

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

Corridor: WESTERN AVE,NW From ALLAN RD,NW TO BERKELEY ST,NW

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

Prepared By: Rahul Jain

Prepared Date: 9/17/2013

Total Number of Accident:	4	Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Fatalities:	0	Right Angle:	1	25.0%	Fixed Object:	0	0.0%
Total Number of Injuries:	1	Left Turn:	0	0.0%	Ran Off Road:	0	0.0%
Total Number of Disabling Injuries:	0	Right Turn:	0	0.0%	Ped. Involved:	0	0.0%
Total Number of NonDisabling Injuries:	0	Rear End:	2	50.0%	Backing:	0	0.0%
Total Number of Pedestrians Involved:	0	Side Swiped:	1	25.0%	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:	0	0.0%

Time of Day	#ACC	%	Day o fweek	#ACC	%
07:30 ~ 09:30:	0	0.0%	Sunday:	1	25.0%
09:30 ~ 11:30:	0	0.0%	Monday:	1	25.0%
11:30 ~ 13:30:	0	0.0%	Tuesday:	1	25.0%
13:30 ~ 16:00:	0	0.0%	Wednesday:	0	0.0%
16:00 ~18:30:	3	75.0%	Thursday:	1	25.0%
18:30 ~ 07:30:	1	25.0%	Friday:	0	0.0%
Unspecified:	0	0.0%	Saturday:	0	0.0%

Weather Condition	#ACC	%	Surface Condition	#ACC	%
Clear:	4	100.0%	Dry:	4	100.0%
Rain:	0	0.0%	Wet:	0	0.0%
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%

Type of Vehicle	#VEH	%	Accident Severity Type	#ACC	%
Passenger Car:	7	77.8%	Fatal Collision:	0	0.0%
Bus:	2	22.2%	Injury Collision:	1	25.0%
Truck:	0	0.0%	PDO Collision:	3	75.0%
Taxi:	0	0.0%	Light Condition	#ACC	%
Minivan:	0	0.0%	Daylight:	4	100.0%
Police/Emergency Vehicle:	0	0.0%	Dawn/Dusk:	0	0.0%
Motorcycle/Moped:	0	0.0%	Dark(Lighted):	0	0.0%
Bicycle:	0	0.0%	Dark(Not Lighted):	0	0.0%
Fixed Object:	0	0.0%	Dark(Unknown Lighting):	0	0.0%
Unspecified:	0	0.0%	Unspecified:	0	0.0%

Contributing Factor	#VEH	%	Pedestrian Actions	#ACC	%
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:	1	11.1%	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:	8	88.9%	Unspecified:	0	0.0%

1 Records are not approved as of 9/17/2013 9:24:18 AM