



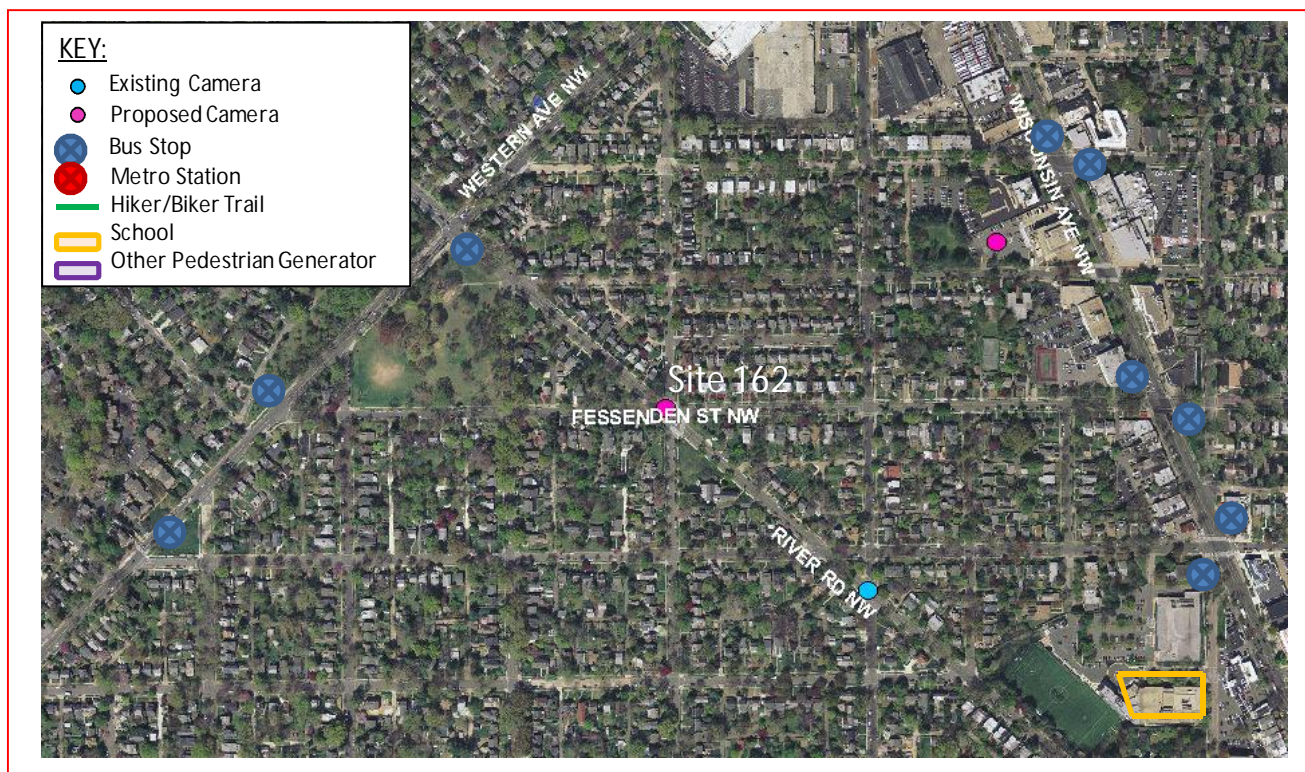
District Department of Transportation

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

4500 Block River Road NW

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
2	202	3	3E	Proposed	4500 Block River Road Northwest Southbound



This *proposed* speed camera will be located in Ward 3 at the 4500 block of River Road Northwest. River Road Northwest runs from Western Avenue Northwest in the northwest to Wisconsin Avenue Northwest in the southeast. The posted speed limit is 25 MPH.

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District Department of Transportation

4500 Block River Road NW

Field Assessment Summary

River Road is assumed to run in a Northwest-Southeast direction, and is classified as a minor arterial. River Road has one travel lane in each direction. This site has the following characteristics:

- This is a residential area with houses and driveways.
- There is one school in the area: Georgetown Day High School.
- Fort Bayard Park and the Boundary Park Neighborhood Conservation Area are also in the area.
- There is sidewalk and on-street parking on both sides of the street.
- There are shared use bicycle pavement markings and transverse pavement markings.
- There is a crosswalk at 45th Street NW and a traffic signal with pedestrian signals and crosswalks at Garrison Street NW.
- The pavement is in fair condition and there is curb and gutter with drainage inlets. There is a slight slope downgrade northbound.



Looking Northbound

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District Department of Transportation

4500 Block River Road NW



Looking Southbound

Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	13
85th Percentile Speed (MPH)	17
10 MPH Pace Speed (MPH)	9-18
ADT	6,643

The mean speed is lower than the posted speed limit by 12 MPH and the 85th percentile speed is lower than the posted speed by 8 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 Right Angle with two crashes. Each of the other collision types had one crash or less.

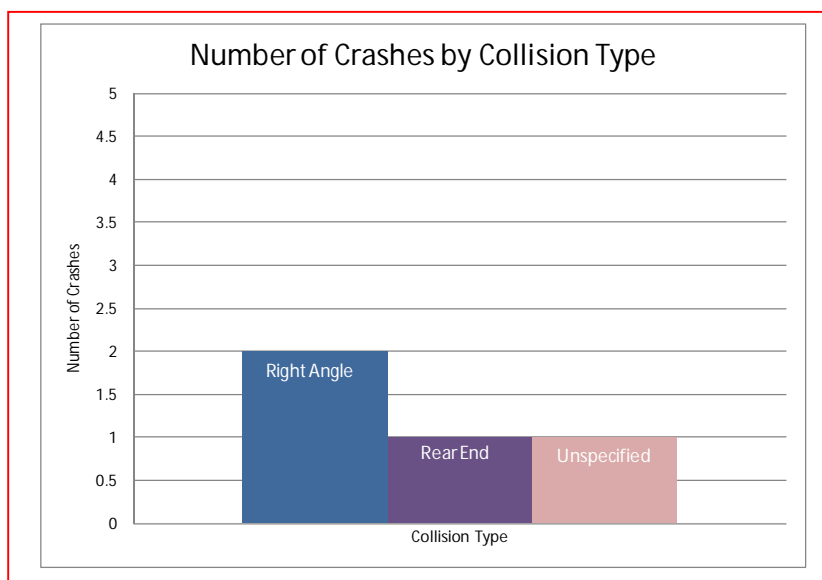
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District Department of Transportation

4500 Block River Road NW

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



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 speed data analysis shows travel speeds being lower than the posted speed limit.
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: Georgetown Day High School.
 - c. Fort Bayard Park and the Boundary Park Neighborhood Conservation Area are also in the area, which generate pedestrian and bicycle activity.
 - d. This is a shared use vehicles and bicycles roadway.
 - e. There are multiple bus stops in the area which generate pedestrian activity.
 - f. There is on-street parking on both sides of the street.

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District Department of Transportation

4500 Block River Road NW

Although the speed data analysis showed travel speeds being lower than the posted speed limit and the crash data analysis showed a low number of crashes at this location, there is still a concern of safety at this location. River Road is a multimodal corridor with vehicles, bicycles, and buses traveling down the corridor. The presence of crosswalks at the corner of River Road NW and Fessenden Street NW reveals a pedestrian nature to this location. Thus, due to the specific site characteristics of a residential area with multimodal travel, and the pedestrian generators of the nearby school and parks, 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

4500 Block of River Rd. NW SB Speed

SB

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
11/19/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	3	12	0	0	0	0	0	0	0	0	0	0	0	0	15
04:00	4	23	4	0	0	0	0	0	0	0	0	0	0	0	31
05:00	15	87	3	0	0	0	0	0	0	0	0	0	0	0	105
06:00	75	212	5	0	0	0	0	0	0	0	0	0	0	0	292
07:00	406	315	3	0	0	0	0	0	0	0	0	0	0	0	724
08:00	436	327	0	0	0	0	0	0	0	0	0	0	0	0	763
09:00	249	353	9	0	0	0	0	0	0	0	0	0	0	0	611
10:00	166	255	1	0	0	0	0	0	0	0	0	0	0	0	422
11:00	139	223	0	0	0	0	0	0	0	0	0	0	0	0	362
12 PM	118	216	0	0	0	0	0	0	0	0	0	0	0	0	334
13:00	129	206	6	0	0	0	0	0	0	0	0	0	0	0	341
14:00	129	241	1	0	0	0	0	0	0	0	0	0	0	0	371
15:00	122	222	2	0	0	0	0	0	0	0	0	0	0	0	346
16:00	145	205	1	0	0	0	0	0	0	0	0	0	0	0	351
17:00	289	147	0	0	0	0	0	0	0	0	0	0	0	0	436
18:00	266	145	0	0	0	0	0	0	0	0	0	0	0	0	411
19:00	94	172	5	0	0	0	0	0	0	0	0	0	0	0	271
20:00	64	118	2	0	0	0	0	0	0	0	0	0	0	0	184
21:00	28	73	2	0	0	0	0	0	0	0	0	0	0	0	103
22:00	28	62	1	0	0	0	0	0	0	0	0	0	0	0	91
23:00	7	19	1	0	0	0	0	0	0	0	0	0	0	0	27
Total	2912	3633	46	0	0	0	0	0	0	0	0	0	0	0	6591

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

4500 Block of River Rd. NW SB Speed

SB

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
11/20/13	7	16	0	0	0	0	0	0	0	0	0	0	0	0	23
01:00	6	8	1	0	0	0	0	0	0	0	0	0	0	0	15
02:00	6	7	1	0	0	0	0	0	0	0	0	0	0	0	14
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	19	31	2	0	0	0	0	0	0	0	0	0	0	0	52
Grand Total	2931	3664	48	0	0	0	0	0	0	0	0	0	0	0	6643

15th Percentile : 6 MPH
50th Percentile : 12 MPH
85th Percentile : 17 MPH
95th Percentile : 19 MPH

Stats
Mean Speed(Average) : 13 MPH
10 MPH Pace Speed : 9-18 MPH
Number in Pace : 4094
Percent in Pace : 61.6%
Number of Vehicles > 25 MPH : 4
Percent of Vehicles > 25 MPH : 0.1%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

4500 Block of River Rd. NW SB Volume

Start Time	Tue A.M.	19-Nov-13 P.M.	Wed A.M.	20-Nov-13 P.M.	Thu A.M.	21-Nov-13 P.M.	Daily Average	
							A.M.	P.M.
12:00	*	103	9	*	*	*	9	103
12:15	*	73	4	*	*	*	4	73
12:30	*	86	5	*	*	*	5	86
12:45	*	72	5	*	*	*	5	72
01:00	*	85	6	*	*	*	6	85
01:15	*	86	4	*	*	*	4	86
01:30	*	73	3	*	*	*	3	73
01:45	*	97	2	*	*	*	2	97
02:00	*	88	2	*	*	*	2	88
02:15	*	115	4	*	*	*	4	115
02:30	*	89	1	*	*	*	1	89
02:45	*	79	7	*	*	*	7	79
03:00	5	102	*	*	*	*	5	102
03:15	5	84	*	*	*	*	5	84
03:30	2	70	*	*	*	*	2	70
03:45	3	90	*	*	*	*	3	90
04:00	7	87	*	*	*	*	7	87
04:15	5	90	*	*	*	*	5	90
04:30	7	83	*	*	*	*	7	83
04:45	12	91	*	*	*	*	12	91
05:00	11	105	*	*	*	*	11	105
05:15	22	96	*	*	*	*	22	96
05:30	32	115	*	*	*	*	32	115
05:45	40	120	*	*	*	*	40	120
06:00	35	102	*	*	*	*	35	102
06:15	74	116	*	*	*	*	74	116
06:30	88	104	*	*	*	*	88	104
06:45	95	89	*	*	*	*	95	89
07:00	117	71	*	*	*	*	117	71
07:15	174	67	*	*	*	*	174	67
07:30	212	66	*	*	*	*	212	66
07:45	221	67	*	*	*	*	221	67
08:00	198	43	*	*	*	*	198	43
08:15	191	50	*	*	*	*	191	50
08:30	180	51	*	*	*	*	180	51
08:45	194	40	*	*	*	*	194	40
09:00	163	31	*	*	*	*	163	31
09:15	181	26	*	*	*	*	181	26
09:30	148	28	*	*	*	*	148	28
09:45	119	18	*	*	*	*	119	18
10:00	122	22	*	*	*	*	122	22
10:15	116	24	*	*	*	*	116	24
10:30	89	16	*	*	*	*	89	16
10:45	95	29	*	*	*	*	95	29
11:00	90	4	*	*	*	*	90	4
11:15	86	9	*	*	*	*	86	9
11:30	94	11	*	*	*	*	94	11
11:45	92	3	*	*	*	*	92	3
Total	3325	3266	52	0	0	0	3377	3266
Combined Total	6591		52		0		6643	
Peak	07:30	05:30	12:00				07:30	05:30
Vol.	822	453	23				822	453
P.H.F.	0.930	0.944	0.639				0.930	0.944
ADT		ADT 6,643	AADT 6,643					

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

Corridor: RIVER RD,NW From FORTY SIXTH ST,NW TO ELLICOTT ST,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:	4	Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Fatalities:	0	Right Angle:	2	50.0%	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:	1	Rear End:	1	25.0%	Backing:	0	0.0%
Total Number of Pedestrians Involved:	0	Side Swiped:	0	0.0%	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:	1	25.0%

Time of Day	#ACC	%	Day o fweek	#ACC	%
07:30 ~ 09:30:	0	0.0%	Sunday:	0	0.0%
09:30 ~ 11:30:	0	0.0%	Monday:	0	0.0%
11:30 ~ 13:30:	0	0.0%	Tuesday:	1	25.0%
13:30 ~ 16:00:	0	0.0%	Wednesday:	2	50.0%
16:00 ~18:30:	1	25.0%	Thursday:	1	25.0%
18:30 ~ 07:30:	3	75.0%	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:	6	75.0%	Fatal Collision:	0	0.0%
Bus:	1	12.5%	Injury Collision:	1	25.0%
Truck:	1	12.5%	PDO Collision:	3	75.0%
Taxi:	0	0.0%	Light Condition	#ACC	%
Minivan:	0	0.0%	Daylight:	2	50.0%
Police/Emergency Vehicle:	0	0.0%	Dawn/Dusk:	0	0.0%
Motorcycle/Moped:	0	0.0%	Dark(Lighted):	2	50.0%
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:	3	37.5%	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:	5	62.5%	Unspecified:	0	0.0%

3 Records are not approved as of 9/15/2013 9:15:10 PM