



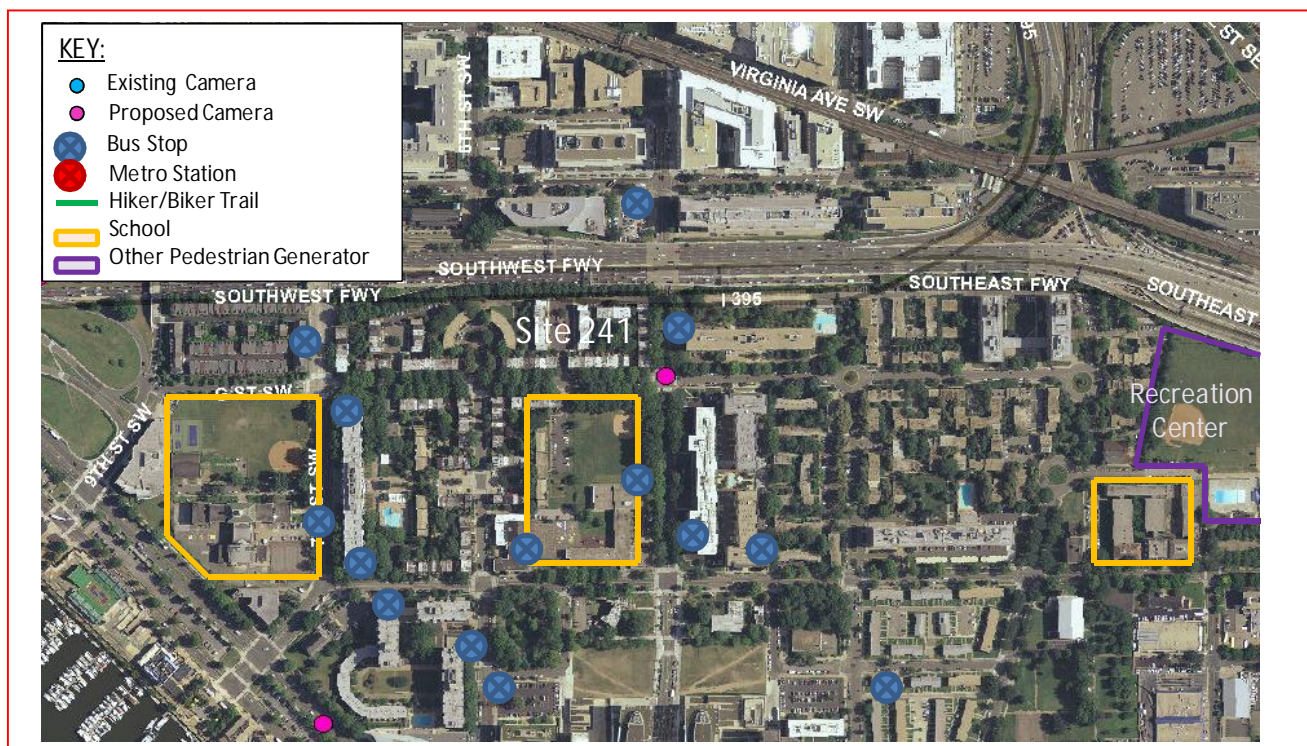
District Department of Transportation

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

400-700 Block G Street SW

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
1	105	6	6D	Proposed	400 to 700 Blocks G Street Southwest Eastbound



The *proposed* speed camera will be located in Ward 6 between the 400 to 700 blocks of G Street Southwest for the eastbound traffic. G Street runs between 9th Street Southwest to the west and South Capitol Street Southwest to the east. The posted speed limit is 25 MPH.

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District Department of Transportation

400-700 Block G Street SW

Field Assessment Summary

G Street SW is assumed to run in an east west direction and is classified as a local road. G Street SW has one travel lane in each direction. This site has the following characteristics:

- The site is located in a residential area with apartments and houses on each side of the roadway.
- There are 3 schools in the area: Jefferson Middle School, Randall Junior High School and Amidon School.
- The Randall Recreational Center is also in the area and is a generator of pedestrian activity.
- There are sidewalks with curb and gutter drainage features on both sides of the roadway.
- The existing roadway pavement is in good condition.
- There are several bus stops within the vicinity of the site.



Looking East

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District Department of Transportation

400-700 Block G Street SW



Looking West

Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	22
85th Percentile Speed (MPH)	28
10 MPH Pace Speed	20-29
ADT	2,116

The mean speed is lower than the posted speed limit by 3 MPH and the 85th percentile speed is higher than the posted speed by 3 MPH at this location

Crash Data Analysis

From the Accident Summary Report provided for the dates between January 1, 2011 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 crashes at this location were Right Angle (5) and Side Swiped (3). There was one (1) crash where vehicular speeding was the contributing factor. Furthermore, the site experienced five injury-related crashes.

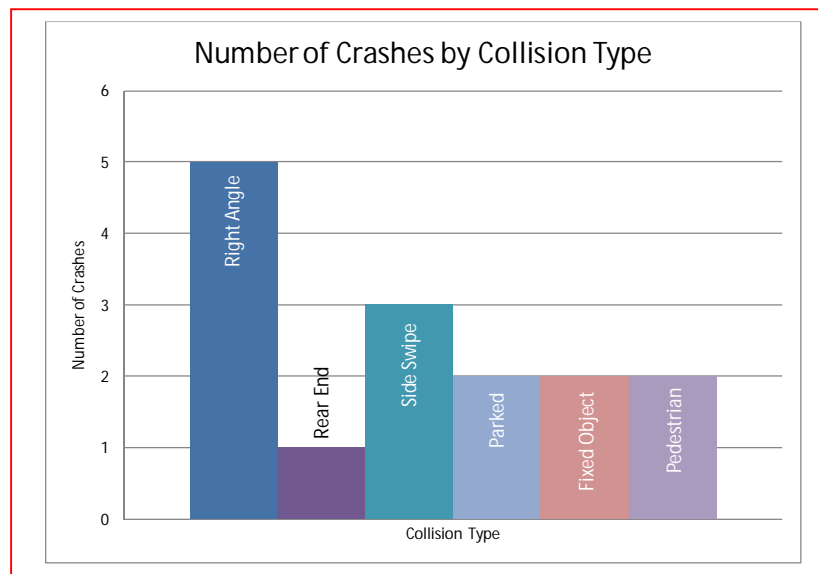
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District Department of Transportation

400-700 Block G Street SW

Severity			Weather			Surface condition			Light Condition		
Total	15										
Fatal	0	0.0%	Clear	12	80.0%	Dry	11	73.3%	Day	12	80.0%
Injury	5	33.3%	Rain	3	20.0%	Wet	3	20.0%	Night	3	20.0%
Taxi	2	13.3%	Fog/Mist	0	0.0%	Snow/Ice	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 85th percentile speed is higher than the posted speed limit at this location.
2. Crash Data – This location experienced five injury-related crashes. There was also one (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 site is located in a residential area with many apartment buildings and houses on both sides of the street and in the surrounding area.
 - b. There are 3 schools in the area: Jefferson Middle School, Randall Junior High School and Amidon School.
 - c. The Randall Recreational Center is also in the area and is a generator of pedestrian activity.
 - d. There are multiple bus stops in the area which generate pedestrian activity.

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District Department of Transportation

400-700 Block G Street SW

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

400 - 700 block of G Street SW EB Speed

EB

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
11/24/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	1	3	21	15	3	1	0	0	0	0	0	0	0	0	44
23:00	3	5	15	12	5	0	0	0	0	0	0	0	0	0	40
Total	4	8	36	27	8	1	0	0	0	0	0	0	0	0	84

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

400 - 700 block of G Street SW EB Speed

EB

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/25/13	2	0	4	3	4	0	1	0	0	0	0	0	0	0	14
01:00	0	1	7	5	1	1	0	0	0	0	0	0	0	0	15
02:00	1	1	1	2	1	0	0	0	0	0	0	0	0	0	6
03:00	0	1	0	3	2	0	0	0	0	0	0	0	0	0	6
04:00	1	1	3	5	1	0	0	0	0	0	0	0	0	0	11
05:00	1	2	8	22	4	2	0	0	0	0	0	0	0	0	39
06:00	6	11	37	18	12	0	0	0	0	0	0	0	0	0	84
07:00	8	29	65	35	9	0	0	0	0	0	0	0	0	0	146
08:00	28	39	78	49	4	0	1	0	0	0	0	0	0	0	199
09:00	1	3	4	4	0	0	0	0	0	0	0	0	0	0	12
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00	2	2	9	4	0	0	0	0	0	0	0	0	0	0	17
12 PM	11	17	33	39	3	0	0	0	0	0	0	0	0	0	103
13:00	12	20	49	28	5	2	0	0	0	0	0	0	0	0	116
14:00	15	15	48	47	14	3	0	0	0	0	0	0	0	0	142
15:00	13	20	60	62	11	4	0	0	0	0	0	0	0	0	170
16:00	21	32	83	65	14	0	0	0	0	0	0	0	0	0	215
17:00	6	16	84	61	15	3	0	0	0	0	0	0	0	0	185
18:00	20	35	81	66	14	3	0	0	0	0	0	0	0	0	219
19:00	12	16	58	23	12	1	0	0	0	0	0	0	0	0	122
20:00	6	14	52	30	7	1	1	0	0	0	0	0	0	0	111
21:00	5	8	52	31	3	1	0	0	0	0	0	0	0	0	100
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	171	283	816	602	136	21	3	0	0	0	0	0	0	0	2032
Grand Total	175	291	852	629	144	22	3	0	0	0	0	0	0	0	2116

15th Percentile : 12 MPH
 50th Percentile : 22 MPH
 85th Percentile : 28 MPH
 95th Percentile : 31 MPH

Stats
 Mean Speed(Average) : 22 MPH
 10 MPH Pace Speed : 20-29 MPH
 Number in Pace : 1209
 Percent in Pace : 57.1%
 Number of Vehicles > 25 MPH : 727
 Percent of Vehicles > 25 MPH : 34.3%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

400 - 700 block of G Street SW EB Volume

Start Time	Sun	24-Nov-13	Mon	25-Nov-13	Tue	26-Nov-13	Daily Average	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	*	*	3	31	*	*	3	31
12:15	*	*	4	21	*	*	4	21
12:30	*	*	3	28	*	*	3	28
12:45	*	*	4	23	*	*	4	23
01:00	*	*	6	24	*	*	6	24
01:15	*	*	3	27	*	*	3	27
01:30	*	*	2	42	*	*	2	42
01:45	*	*	4	23	*	*	4	23
02:00	*	*	1	37	*	*	1	37
02:15	*	*	2	37	*	*	2	37
02:30	*	*	1	39	*	*	1	39
02:45	*	*	2	29	*	*	2	29
03:00	*	*	2	46	*	*	2	46
03:15	*	*	3	35	*	*	3	35
03:30	*	*	0	41	*	*	0	41
03:45	*	*	1	48	*	*	1	48
04:00	*	*	3	45	*	*	3	45
04:15	*	*	1	57	*	*	1	57
04:30	*	*	3	64	*	*	3	64
04:45	*	*	4	49	*	*	4	49
05:00	*	*	3	60	*	*	3	60
05:15	*	*	8	36	*	*	8	36
05:30	*	*	15	55	*	*	15	55
05:45	*	*	13	34	*	*	13	34
06:00	*	*	19	55	*	*	19	55
06:15	*	*	12	50	*	*	12	50
06:30	*	*	25	64	*	*	25	64
06:45	*	*	28	50	*	*	28	50
07:00	*	*	30	44	*	*	30	44
07:15	*	*	36	24	*	*	36	24
07:30	*	*	48	34	*	*	48	34
07:45	*	*	32	20	*	*	32	20
08:00	*	*	45	30	*	*	45	30
08:15	*	*	47	33	*	*	47	33
08:30	*	*	49	32	*	*	49	32
08:45	*	*	58	16	*	*	58	16
09:00	*	*	12	32	*	*	12	32
09:15	*	*	0	33	*	*	0	33
09:30	*	*	0	21	*	*	0	21
09:45	*	*	0	14	*	*	0	14
10:00	*	17	0	*	*	*	0	17
10:15	*	13	0	*	*	*	0	13
10:30	*	7	0	*	*	*	0	7
10:45	*	7	0	*	*	*	0	7
11:00	*	17	0	*	*	*	0	17
11:15	*	9	0	*	*	*	0	9
11:30	*	8	0	*	*	*	0	8
11:45	*	6	17	*	*	*	17	6
Total	0	84	549	1483	0	0	549	1567
Combined Total	84		2032		0		2116	
Peak	10:00		08:00	04:15			08:00	04:15
Vol.	44		199	230			199	230
P.H.F.	0.647		0.858	0.898			0.858	0.898
ADT	ADT 2,116		AADT 2,116					

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

Corridor: G ST,SW From FOURTH ST,SW TO SEVENTH ST,SW

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	Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Fatalities:	0	Right Angle:	5	33.3%	Fixed Object:	2	13.3%
Total Number of Injuries:	7	Left Turn:	0	0.0%	Ran Off Road:	0	0.0%
Total Number of Disabling Injuries:	0	Right Turn:	0	0.0%	Ped. Involved:	2	13.3%
Total Number of NonDisabling Injuries:	2	Rear End:	1	6.7%	Backing:	0	0.0%
Total Number of Pedestrians Involved:	1	Side Swiped:	3	20.0%	Non Collision:	0	0.0%
Total Number of Bicycles Involved:	2	Head On:	0	0.0%	Under/Over Ride:	0	0.0%
Total Number of Motorcycles Involved:	1	Parked:	2	13.3%	Unspecified:	0	0.0%
Time of Day				#ACC	%	Day o fweek	
07:30 ~ 09:30:				0	0.0%	Sunday:	
09:30 ~ 11:30:				3	20.0%	Monday:	
11:30 ~ 13:30:				2	13.3%	Tuesday:	
13:30 ~ 16:00:				2	13.3%	Wednesday:	
16:00 ~18:30:				4	26.7%	Thursday:	
18:30 ~ 07:30:				4	26.7%	Friday:	
Unspecified:				0	0.0%	Saturday:	
Weather Condition				#ACC	%	Surface Condition	
Clear:				12	80.0%	Dry:	
Rain:				3	20.0%	Wet:	
Snow:				0	0.0%	Snow/Ice:	
Sleet/Hail:				0	0.0%	Slush:	
Fog/Mist:				0	0.0%	Water/Sand:	
Crosswind/Blowing Sand:				0	0.0%	Repairing:	
Unspecified:				0	0.0%	Unspecified:	
Type of Vehicle				#VEH	%	Accident Severity Type	
Passenger Car:				20	74.1%	Fatal Collision:	
Bus:				1	3.7%	Injury Collision:	
Truck:				0	0.0%	PDO Collision:	
Taxi:				2	7.4%	Light Condition	
Minivan:				0	0.0%	Daylight:	
Police/Emergency Vehicle:				0	0.0%	Dawn/Dusk:	
Motorcycle/Moped:				1	3.7%	Dark(Lighted):	
Bicycle:				2	7.4%	Dark(Not Lighted):	
Fixed Object:				0	0.0%	Dark(Unknown Lighting):	
Unspecified:				1	3.7%	Unspecified:	
Contributing Factor				#VEH	%	Pedestrian Actions	
Driver: Speed:				1	3.7%	In Crosswalk with Signal:	
Driver: Alcohol/Drug:				0	0.0%	In Crosswalk against Signal:	
Driver: Electronic Device:				0	0.0%	In Crosswalk no Signal:	
Driver: Others:				7	25.9%	In Unmarked Crosswalk:	
Vehicle:				0	0.0%	Not in Crosswalk:	
Roadway:				1	3.7%	From Between Parked Cars:	
Unspecified:				18	66.7%	Unspecified:	

8 Records are not approved as of 9/15/2013 8:27:35 PM