



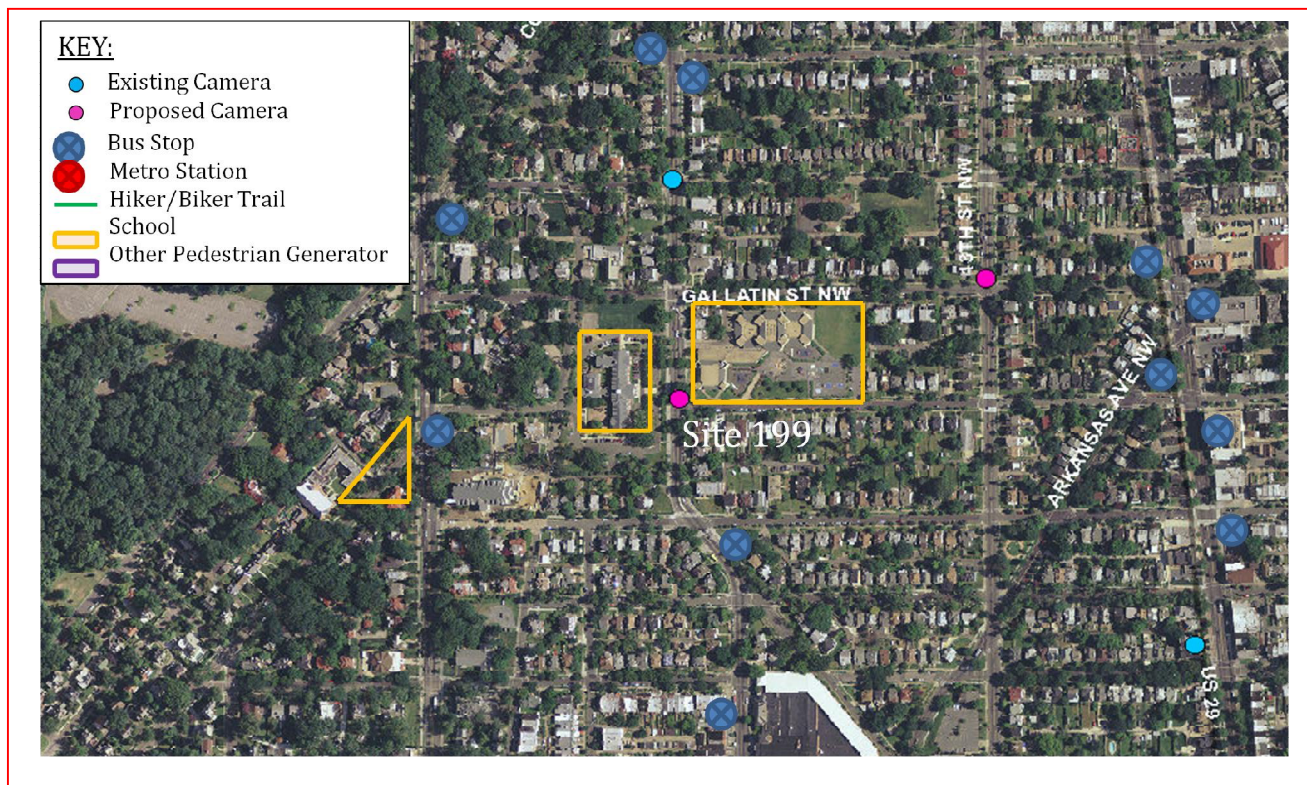
District Department of Transportation

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

14th Street at Farragut Street NW

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
4	404	4	4C	Proposed	14 th Street Northbound at Farragut Street Northwest



The *proposed* speed camera will be located in Ward 4 at the intersection of 14th Street at Farragut Street Northwest in the northbound direction. 14th Street runs from Eastern Avenue Northwest in the north to the 14th Street Bridge to the south, where it becomes US 1. The posted speed limit is 25 MPH.

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District Department of Transportation

14th Street at Farragut Street NW

Field Assessment Summary

14th Street is assumed to run in a north-south direction, and is classified as a minor arterial. 14th Street has one travel lane and a bike lane in each direction. Farragut Street Northwest is assumed to run in an east-west direction, and is classified as a local road. Farragut Street Northwest has one lane in each direction. This site has the following characteristics:

- This is a residential area with houses on both sides of the street.
- There are three schools in the area: West Education Campus, the Kingsbury Center and Parkmont School. Kingsbury Center and West Education Campus are located at this intersection.
- There are sidewalks and crosswalks across all legs.
- There is a bicycle lane on 14th Street in both directions.
- The pavement is in fair condition and there is curb and gutter with drainage inlets
- There is on-street parking on both sides of 14th Street. Parking is permitted several hundred feet from the intersection along eastbound Farragut Street Northwest. There is a “no parking zone” at the intersection on the westbound approach of Farragut Street Northwest.
- There is one bus stop northbound and one bus stop southbound on 14th Street



Looking South

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14th Street at Farragut Street NW



Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	31
85th Percentile Speed (MPH)	35
10 MPH Pace Speed	27-36
ADT	4,414

The mean speed is 6 MPH higher than the posted speed limit and the 85th percentile speed is 10 MPH higher than the posted speed limit.

Crash Data Analysis

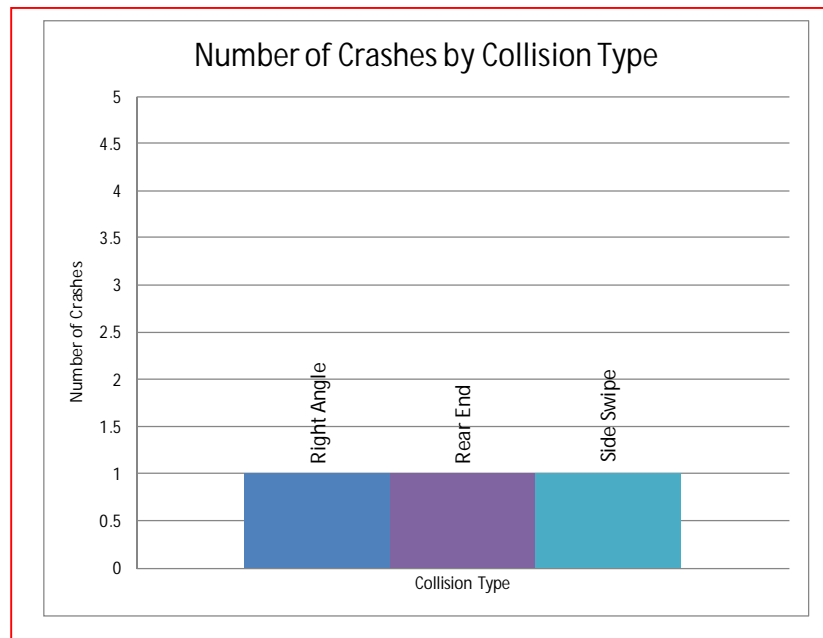
From the Accident Summary Report provided for the dates between January 1, 2010 and December 31, 2012, there were a total of three crashes at this location. A breakdown of number of crashes by collision type can be found in the chart on the next page. The most common types of collision at this location were Rear End, Side Swipe and Right Angle with one crash. The other collision types had no reported crashes.



District Department of Transportation

14th Street at Farragut Street NW

Severity			Weather			Surface condition			Light Condition		
Total	3										
Fatal	0	0.0%	Clear	3	100.0%	Dry	3	100.0%	Day	2	66.7%
Injury	2	66.7%	Rain	0	0.0%	Wet	0	0.0%	Night	1	33.3%
Taxi	0	0.0%	Snow	0	0.0%	Snow/Ice	0	0.0%			
Bus	0	0.0%									



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 much 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 site is located in a residential area with houses on both sides of the street and in the surrounding area.
 - b. This site is located near three schools: West Education Campus, the Kingsbury Center and Parkmont School. Kingsbury Center and West Education Campus are located at this intersection.
 - c. There are several bus stops in the area which generate pedestrian activity.
 - d. There are bicycle lanes along 14th Street in both directions.

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District Department of Transportation

14th Street at Farragut Street NW

Although the crash data analysis showed a low number of crashes at this location, the speed data analysis and the presence of bicycle lanes reveals safety factors. Thus, due to the speed data analysis, the specific site characteristics of a residential area, the proximity of schools to the site, the existence of bicycle activity, 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

14th St NB at Farragut St NW Speed

NB

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	999	Total
11/11/13	1	0	4	19	41	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79
01:00	1	0	1	15	23	8	5	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55
02:00	1	1	3	12	22	19	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61
03:00	2	0	1	7	13	4	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
04:00	0	0	6	24	11	9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
05:00	1	0	4	19	30	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66
06:00	0	0	6	28	39	13	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87
07:00	0	2	7	48	82	25	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	168
08:00	3	4	14	43	64	21	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	153
09:00	0	1	12	52	68	32	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	168
10:00	3	3	11	79	81	27	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	207
11:00	0	1	20	76	87	27	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	213
12 PM	3	0	19	91	95	24	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	234
13:00	1	3	19	90	92	32	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	241
14:00	0	0	17	82	132	36	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	271
15:00	5	5	23	127	134	44	7	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	347
16:00	1	9	46	154	138	26	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	375
17:00	1	5	42	164	145	28	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	388
18:00	1	4	19	88	148	51	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	316
19:00	0	0	17	82	103	27	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	230
20:00	0	0	13	67	77	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	184
21:00	2	5	5	43	86	27	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	170
22:00	0	0	8	52	68	24	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	158
23:00	2	1	4	35	78	28	10	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	159
Total	28	44	321	1497	1857	583	72	7	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4414
Grand Total	28	44	321	1497	1857	583	72	7	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4414

15th Percentile : 25 MPH
 50th Percentile : 30 MPH
 85th Percentile : 35 MPH
 95th Percentile : 38 MPH

Stats
 Mean Speed(Average) : 31 MPH
 10 MPH Pace Speed : 27-36 MPH
 Number in Pace : 3043
 Percent in Pace : 68.9%
 Number of Vehicles > 25 MPH : 3841
 Percent of Vehicles > 25 MPH : 87.0%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

14th St NB at Farragut St NW Volume

Start Time	11-Nov-13		12-Nov-13		13-Nov-13		Daily Average	
	Mon A.M.	P.M.	Tue A.M.	P.M.	Wed A.M.	P.M.	A.M.	P.M.
12:00	20	56	*	*	*	*	20	56
12:15	25	54	*	*	*	*	25	54
12:30	18	63	*	*	*	*	18	63
12:45	16	61	*	*	*	*	16	61
01:00	16	50	*	*	*	*	16	50
01:15	18	66	*	*	*	*	18	66
01:30	12	71	*	*	*	*	12	71
01:45	9	54	*	*	*	*	9	54
02:00	14	68	*	*	*	*	14	68
02:15	18	58	*	*	*	*	18	58
02:30	19	81	*	*	*	*	19	81
02:45	10	64	*	*	*	*	10	64
03:00	13	85	*	*	*	*	13	85
03:15	3	87	*	*	*	*	3	87
03:30	5	90	*	*	*	*	5	90
03:45	11	85	*	*	*	*	11	85
04:00	16	95	*	*	*	*	16	95
04:15	12	85	*	*	*	*	12	85
04:30	12	92	*	*	*	*	12	92
04:45	12	103	*	*	*	*	12	103
05:00	13	96	*	*	*	*	13	96
05:15	13	101	*	*	*	*	13	101
05:30	15	85	*	*	*	*	15	85
05:45	25	106	*	*	*	*	25	106
06:00	14	88	*	*	*	*	14	88
06:15	21	88	*	*	*	*	21	88
06:30	24	77	*	*	*	*	24	77
06:45	28	63	*	*	*	*	28	63
07:00	42	62	*	*	*	*	42	62
07:15	34	53	*	*	*	*	34	53
07:30	47	56	*	*	*	*	47	56
07:45	45	59	*	*	*	*	45	59
08:00	43	54	*	*	*	*	43	54
08:15	35	44	*	*	*	*	35	44
08:30	45	41	*	*	*	*	45	41
08:45	30	45	*	*	*	*	30	45
09:00	39	57	*	*	*	*	39	57
09:15	45	40	*	*	*	*	45	40
09:30	37	46	*	*	*	*	37	46
09:45	47	27	*	*	*	*	47	27
10:00	50	39	*	*	*	*	50	39
10:15	61	40	*	*	*	*	61	40
10:30	47	42	*	*	*	*	47	42
10:45	49	37	*	*	*	*	49	37
11:00	46	45	*	*	*	*	46	45
11:15	52	46	*	*	*	*	52	46
11:30	59	27	*	*	*	*	59	27
11:45	56	41	*	*	*	*	56	41
Total	1341	3073	0	0	0	0	1341	3073
Combined Total	4414		0		0		4414	
Peak	11:00	04:30					11:00	04:30
Vol.	213	392					213	392
P.H.F.	0.873	0.951					0.873	0.951
ADT	ADT 4,414		AADT 4,414					

Accident Summary Report (R-8)**Corridor:** 14TH ST,NW,SW From GALLATIN ST,NW TO FARRAGUT ST,NW**Time Period Covered:** From 01/01/2010 To 12/31/2012**Prepared By:** Rahul Jain**Prepared Date:** 9/16/2013

		Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Accident:	3	Right Angle:	1	33.3%	Fixed Object:	0	0.0%
Total Number of Fatalities:	0	Left Turn:	0	0.0%	Ran Off Road:	0	0.0%
Total Number of Injuries:	2	Right Turn:	0	0.0%	Ped. Involved:	0	0.0%
Total Number of Disabling Injuries:	0	Rear End:	1	33.3%	Backing:	0	0.0%
Total Number of NonDisabling Injuries:	2	Side Swiped:	1	33.3%	Non Collision:	0	0.0%
Total Number of Pedestrians Involved:	1	Head On:	0	0.0%	Under/Over Ride:	0	0.0%
Total Number of Bicycles Involved:	1	Parked:	0	0.0%	Unspecified:	0	0.0%
Total Number of Motorcycles Involved:	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:	1	33.3%
11:30 ~ 13:30:	1	33.3%	Tuesday:	0	0.0%
13:30 ~ 16:00:	1	33.3%	Wednesday:	0	0.0%
16:00 ~18:30:	0	0.0%	Thursday:	0	0.0%
18:30 ~ 07:30:	1	33.3%	Friday:	2	66.7%
Unspecified:	0	0.0%	Saturday:	0	0.0%

Weather Condition	#ACC	%	Surface Condition	#ACC	%
Clear:	3	100.0%	Dry:	3	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:	1	25.0%	Fatal Collision:	0	0.0%
Bus:	0	0.0%	Injury Collision:	2	66.7%
Truck:	1	25.0%	PDO Collision:	1	33.3%
Taxi:	0	0.0%			
Minivan:	0	0.0%	Light Condition	#ACC	%
Police/Emergency Vehicle:	0	0.0%	Daylight:	2	66.7%
Motorcycle/Moped:	0	0.0%	Dawn/Dusk:	0	0.0%
Bicycle:	1	25.0%	Dark(Lighted):	1	33.3%
Fixed Object:	0	0.0%	Dark(Not Lighted):	0	0.0%
Unspecified:	1	25.0%	Dark(Unknown Lighting):	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	25.0%	In Unmarked Crosswalk:	0	0.0%
Vehicle:	0	0.0%	Not in Crosswalk:	1	100.0%
Roadway:	0	0.0%	From Between Parked Cars:	0	0.0%
Unspecified:	3	75.0%	Unspecified:	0	0.0%

2 Records are not approved as of 9/16/2013 7:51:34 AM