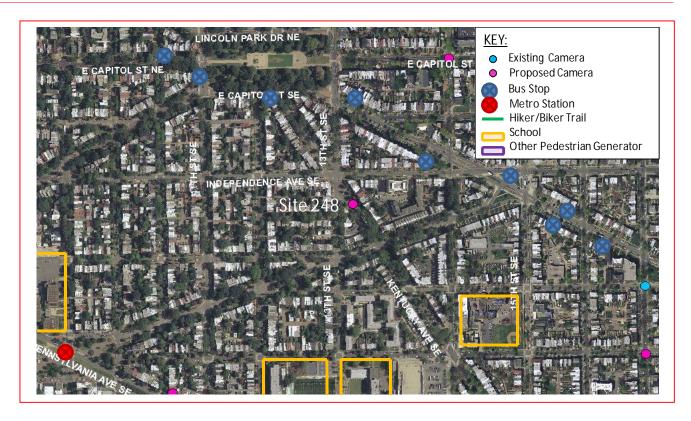




Speed Limit and Safety Nexus Studies for Automated Enforcement Locations in the District of Columbia 100-200 Block Kentucky Avenue SE

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
1	108	6	6B	Proposed	100 to 200 Blocks Kentucky Avenue Southeast
					Northeast-bound and Southwest-bound



The *proposed* speed camera will be located in Ward 6 between the 100 to 200 blocks of Kentucky Avenue southeast for the northeast-bound and southwest-bound traffic. Kentucky Avenue SE runs from East Capitol Street Southeast in the north to Pennsylvania Avenue Southeast in the south. The posted speed limit is 25 MPH.



District Department of Transportation

55 M Street, SE, Suite 400



Field Assessment Summary

Kentucky Avenue Southeast is assumed to run in a northwest-southeast direction and is classified as a collector road. Kentucky Avenue SE has one travel lane in each direction. This site has the following characteristics:

- This site is located in a residential area with houses and apartments on both sides of the roadway.
- Sidewalks with curb and gutter exist on both sides.
- There are several bus stops and a metro station near the site that generate pedestrian activity.
- There are four schools in the area: Hine Jr. High School, Watkins Elementary School, International Graduate University and Payne Elementary School.







Speed Data Analysis

	NWB	SEB
Posted Speed Limit (MPH)	25	25
Mean Speed (MPH)	12	18
85th Percentile Speed (MPH)	18	25
10 MPH Pace Speed	4-13	18-27
Sample Size	215	853
ADT	1,0	068

The mean speed is less than the posted speed in both directions at this location. The 85th percentile speed is less than the posted speed in the northwest bound direction and equal to the posted speed in the southeast bound direction at this location.

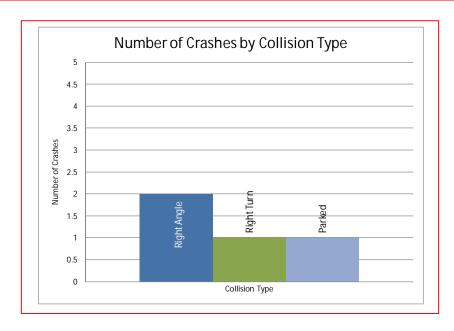
Crash Data Analysis

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 below. The most common types of crashes at this location were Right Angle (2), Right Turn (1) and Parked (1).

W6 - 299



Sev	erity/		We	ather		Surface	condit	ion	Light Condition			
Total	4											
Fatal	0	0.0%	Clear	3	75.0%	Dry	3	75.0%	Day	1	25.0%	
Injury	1	25.0%	Rain	1	25.0%	Wet	1	25.0%	Night	3	75.0%	
Truck	2	50.0%	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 lower than the posted speed limit in the Northwest-bound direction while it is the same as the posted speed limit in the Southeast-bound direction 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 many apartment buildings and houses on both sides of the street and in the surrounding area.
 - b. There are several bus stops and a metro station near the site that generate pedestrian activity.
 - c. There are 4 schools in the area: Hine Jr. High School, Watkins Elementary School, International Graduate University and Payne Elementary School.

W6 - 300



Although the speed data analysis showed low travel speeds and the crash data analysis showed a low number of crashes in this area, there are other factors that reflect a safety concern. Due to the specific site characteristics of a residential area, the proximity of school zones, and the pedestrian generators, there is a nexus between traffic safety and speed camera at this location.

1515 RISING RIDGE ROAD MOUNT AIRY, MD 21771

www.sammateng.com

100 - 200 block of Kentucky Ave SE Speed

SEB															
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
11/24/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	2	3	14	2	1	0	0	0	0	0	0	0	0	0	22
22:00	3	1	7	6	0	0	0	0	0	0	0	0	0	0	17
23:00	11	2	5	3	1	0	0	0	0	0	0	0	0	0	12
Total	6	6	26	11	2	0	0	0	0	0	0	0	0	0	51

1515 RISING RIDGE ROAD MOUNT AIRY, MD 21771

www.sammateng.com

100 - 200 block of Kentucky Ave SE Speed

SEB															
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
11/25/13	1	0	0	3	2	0	0	0	0	0	0	0	0	0	6
01:00	0	1	1	0	1	0	0	0	0	0	0	0	0	0	3
02:00	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2
03:00	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2
04:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00	2	0	2	0	0	0	0	0	0	0	0	0	0	0	4
06:00	5	0	3	3	1	0	0	0	0	0	0	0	0	0	12
07:00	2	2	14	2	1	0	0	0	0	0	0	0	0	0	21
08:00	13	14	35	12	3	0	0	0	0	0	0	0	0	0	77
09:00	6	6	14	10	2	0	0	0	0	0	0	0	0	0	38
10:00	6	5	17	3	2	0	0	0	0	0	0	0	0	0	33
11:00	10	5	18	10	1	0	0	0	0	0	0	0	0	0	44
12 PM	11	2	21	12	1	0	0	0	0	0	0	0	0	0	47
13:00	20	8	12	7	2	0	0	0	0	0	0	0	0	0	49
14:00	18	3	16	6	0	0	0	0	0	0	0	0	0	0	43
15:00	22	20	34	12	2	0	0	0	0	0	0	0	0	0	90
16:00	11	20	29	9	1	0	0	0	0	0	0	0	0	0	70
17:00	21	34	33	6	1	0	0	0	0	0	0	0	0	0	95
18:00	13	28	36	11	0	0	0	0	0	0	0	0	0	0	88
19:00	6	12	23	6	1	0	0	0	0	0	0	0	0	0	48
20:00	10	6	8	5	0	0	0	0	0	0	0	0	0	0	29
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	179	166	318	117	22	0	0	0	0	0	0	0	0	0	802
Grand Total	185	172	344	128	24	0	0	0	0	0	0	0	0	0	853

 15th Percentile:
 7 MPH

 50th Percentile:
 18 MPH

 85th Percentile:
 25 MPH

 95th Percentile:
 29 MPH

 Stats
 Mean Speed(Average) :
 18 MPH

 10 MPH Pace Speed :
 18-27 MPH

Number in Pace : 18-2/ MPH

Number in Pace : 391

Percent in Pace : 45.8%

Number of Vehicles > 25 MPH : 140

Percent of Vehicles > 25 MPH : 16.4%

1515 RISING RIDGE ROAD MOUNT AIRY, MD 21771

www.sammateng.com

100 - 200 block of Kentucky Ave SE Speed

NWB															
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
11/24/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	5	0	0	1	0	0	0	0	0	0	0	0	0	0	6
22:00	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
23:00	11	2	11	0	0	0	0	0	0	0	0	0	0	0	4
Total	8	2	1	1	0	0	0	0	0	0	0	0	0	0	12

1515 RISING RIDGE ROAD MOUNT AIRY, MD 21771

www.sammateng.com

100 - 200 block of Kentucky Ave SE Speed

NWB															
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
11/25/13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
06:00	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
07:00	2	0	1	0	0	0	0	0	0	0	0	0	0	0	3
08:00	8	1	1	1	0	0	0	0	0	0	0	0	0	0	11
09:00	3	1	0	2	1	0	0	0	0	0	0	0	0	0	7
10:00	8	0	0	2	0	0	0	0	0	0	0	0	0	0	10
11:00	6	1	1	0	0	0	0	0	0	0	0	0	0	0	8
12 PM	9	1	2	3	4	0	0	0	0	0	0	0	0	0	19
13:00	16	2	0	2	1	0	0	0	0	0	0	0	0	0	21
14:00	12	0	2	1	0	0	0	0	0	0	0	0	0	0	15
15:00	20	0	3	1	0	0	0	0	0	0	0	0	0	0	24
16:00	16	0	1	0	0	0	0	0	0	0	0	0	0	0	17
17:00	18	1	0	3	0	0	0	0	0	0	0	0	0	0	22
18:00	9	3	0	2	0	0	0	0	0	0	0	0	0	0	14
19:00	6	1	2	3	1	0	0	0	0	0	0	0	0	0	13
20:00	10	2	1	1	0	0	0	0	0	0	0	0	0	0	14
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	143	15	14	23	7	1	0	0	0	0	0	0	0	0	203
Grand Total	151	17	15	24	7	1	0	0	0	0	0	0	0	0	215

 15th Percentile:
 4 MPH

 50th Percentile:
 9 MPH

 85th Percentile:
 18 MPH

 95th Percentile:
 28 MPH

 Stats
 Mean Speed(Average) :
 12 MPH

 10 MPH Pace Speed :
 4-13 MPH

Number in Pace : 4-13 MPH

Number in Pace : 5140

Percent in Pace : 65.1%

Number of Vehicles > 25 MPH : 19

Percent of Vehicles > 25 MPH : 9.0%

1515 RISING RIDGE ROAD MOUNT AIRY, MD 21771

www.sammateng.com

100 - 200 block of Kentucky Ave SE Volume

Start	24-Nov-13	SEE		NW		Comb		25-Nov-	SEE		NV		Combi	
Time	Sun	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	Mon A	.M.	P.M.	A.M.	P.M.	A.M.	P.M
12:00		*	*	*	*	*	*		2	14	0	4	2	
12:15		*	*	*	*	*	*		2	8	0	8	2	
12:30		*	*	*	*	*	*		0	9	0	2	0	
12:45		*	*	*	*	*	*		2	16	0	5	2	
		*	*	*	*	*	*							
01:00		 	 	*	*	*	*		0	10	0	3	0	
01:15		*	*	*					0	10	0	7	0	
01:30		*	*		*	*	*		0	14	0	5	0	
01:45		*	*	*	*	*	*		3	15	0	6	3	
02:00		*	*	*	*	*	*		1	9	1	4	2	
02:15		*	*	*	*	*	*		0	10	0	4	0	
02:30		*	*	*	*	*	*		1	12	1	3	2	
02:45		*	*	*	*	*	*		0	12	0	4	0	
03:00		*	*	*	*	*	*		0	23	0	10	0	
		*	*	*	*	*	*		0	22		8	0	
03:15		*	*	*	*	*	*				0			
03:30		*	*	*	*		*		2	31	0	5	2	
03:45		*				*	*		0	14	0	1	0	
04:00		*	*	*	*	*	*		0	15	0	4	0	
04:15		*	*	*	*	*	*		0	17	0	5	0	
04:30		*	*	*	*	*	*		1	20	0	5	1	
04:45		*	*	*	*	*	*		0	18	0	3	0	
05:00		*	*	*	*	*	*		0	25	0	5	0	
05:15		*	*	*	*	*	*		0	18	0	4	0	
		*	*	*	*	*	*							
05:30									2	20	0	9	2	
05:45		*	*	*	*	*	*		2	32	1	4	3	
06:00		*	*	*	*	*	*		3	29	0	2	3	
06:15		*	*	*	*	*	*		2	22	0	3	2	
06:30		*	*	*	*	*	*		4	21	1	8	5	
06:45		*	*	*	*	*	*		3	16	1	1	4	
07:00		*	*	*	*	*	*		8	12	0	3	8	
07:00		*	*	*	*	*	*		6	16	3	7	9	
		*	*	*	*	*	*							
07:30		*	*	*	*		*		5	15	0	2	5	
07:45			**			*			2	5	0	1	2	
08:00		*	*	*	*	*	*		10	7	2	3	12	
08:15		*	*	*	*	*	*		20	9	3	5	23	
08:30		*	*	*	*	*	*		21	5	3	3	24	
08:45		*	*	*	*	*	*		26	8	3	3	29	
09:00		*	7	*	2	*	9		16	*	1	*	17	
09:15		*	9	*	2	*	11		9	*	1	*	10	
		*	2	*		*				*	4	*		
09:30		*		*	0		2		7				11	
09:45			4		2	*	6		6	*	1	*	7	
10:00		*	5	*	2	*	7		7	*	2	*	9	
10:15		*	4	*	0	*	4		11	*	5	*	16	
10:30		*	4	*	0	*	4		4	*	1	*	5	
10:45		*	4	*	0	*	4		11	*	2	*	13	
11:00		*	5	*	4	*	9		14	*	4	*	18	
11:15		*	2	*	0	*	2		14	*	2	*	16	
		*		*		*				*		*		
11:30		. v	3	*	0	- v	3		13	*	2	·	15	
11:45		*	2		0	*	2		3		0	*	3	
Total		0	51	0	12	0	63	2	43	559	44	159	287	
Day Total		51		12		63			802		20:		1005	
% Total		0.0% 81	.0%	0.0% 19.0	0%			24.2%	55.6%	6 4.4%	15.8%			
Peak		r	9:00	O	9:00	ng	9:00	08:15	05:4	45 09:30	02:4	15 08:1	5 05:3	30
Vol.		,	22	· ·	6	0.2	28	8		104	12	27	93	
P.H.F.		^	.611	Δ.	750	0.0	36	0.798	o.81					
		()	DII	()	/ 30		מכו	0.798	UXI	5 Un()(. Uh/		, 0.84	L)

Accident Summary Report (R-8)

Time Period Covered: From	om 01/01/201	0 To 12/31	/2012 Prepare	ed By:	Rahul Jain	Prepared Da	ite: 9	9/15/2013
Total Number of Accident:		4	Collision Type	#ACC	%	Collision Type	#ACC	, 9
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 Inj	uries:	0	Right Turn:	1	25.0%	Ped. Involved:	0	0.0%
Total Number of NonDisabling	g Injuries:	0	Rear End:	0	0.0%	Backing:	0	0.0%
Total Number of Pedestrians	Involved:	0	Side Swiped:	0	0.0%	Non Collision:	0	0.0%
Total Number of Bicycles Invo	olved:	0	Head On:	0	0.0%	Under/Over Ride:	0	0.0%
Total Number of Motorcycles	Involved:	0	Parked:	1	25.0%	Unspecified:	0	0.0%
Time of Day	#ACC	%			Day o fweek	#AC	:C	%
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:	1	25.0%			Tuesday:	1		25.0%
13:30 ~ 16:00:	0	0.0%			Wednesday:	1		25.0%
16:00 ~18:30:	0	0.0%			Thursday:	1		25.0%
18:30 ~ 07:30:	3	75.0%			Friday:	1		25.0%
Unspecified:	0	0.0%			Saturday:	0		0.0%
Weather Condition	#ACC	%			Surface Condition	#AC	:C	%
Clear:	3	75.0%			Dry:	3		75.0%
Rain:	1	25.0%			Wet:	1		25.0%
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 #AC	c	%
Passenger Car:	7	77.8%			Fatal Collision:	0		0.0%
Bus:	0	0.0%			Injury Collision:	1		25.0%
Truck:	2	22.2%			PDO Collision:	3		75.0%
Taxi:	0	0.0%			. 20 00			
Minivan:	0	0.0%			Light Condition	#AC	C	%
Police/Emergency Vehicle:	0	0.0%			Daylight:	1		25.0%
Motorcycle/Moped:	0	0.0%			Dawn/Dusk:	0		0.0%
Bicycle:	0	0.0%			Dark(Lighted):	3		75.0%
Fixed Object:	0	0.0%			Dark(Not Lighted):	0		0.0%
Unspecified:	0	0.0%			Dark(Unknown Ligh	nting): 0		0.0%
C	· ·	0.070			Unspecified:	0		0.0%
Contributing Factor	#VEH	%			Pedestrian Action	s #AC	:C	%
Driver: Speed:	0	0.0%			In Crosswalk with S	Signal: 0		0.0%
Driver: Alcohol/Drug:	0	0.0%			In Crosswalk agains	st Signal: 0		0.0%
Driver: Electronic Device:	0	0.0%			In Crosswalk no Sig	gnal: 0		0.0%
Driver: Others:	2	22.2%			In Unmarked Cross	walk: 0		0.0%
Vehicle:	1	11.1%			Not in Crosswalk:	0		0.0%
Roadway:	0	0.0%			From Between Park	ked Cars: 0		0.0%
Unspecified:	6	66.7%			Unspecified:	0		0.0%

³ Records are not approved as of 9/15/2013 8:46:02 PM