



District Department of Transportation

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

1200 Block Taylor Street NE

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
5	404	4	4C	Planned	1200 Block Taylor Street Northeast Westbound



The *planned* speed camera will be located in Ward 4 at the 1200 block of Taylor Street Northwest in the westbound direction. Taylor Street runs between 2nd Street Northeast to the west and Barnard Hill Park near the DC-Maryland State Line to the east. The posted speed limit is 25 MPH.

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1200 Block Taylor Street NE

Field Assessment Summary

Taylor Street is assumed to run in the east-west direction, and is classified as a minor arterial. Taylor Street has one travel lane in each direction. This site has the following characteristics:

- This site is located in a residential area with houses, driveway, and sidewalks with curb and gutters on both sides of the street.
- There is on-street parking on the south side of the street.
- The existing pavement is in good condition.
- There is an existing traffic signal and crosswalks with pedestrian signals at the intersections with 12th Street NE and 13th Street NE.
- There is one school in this area: Metropolitan Day School.
- Turkey Thicket Playground is in the area which generates pedestrian activity.
- There are multiple bus stops which generate pedestrian activity.



Looking Eastbound



District Department of Transportation

1200 Block Taylor Street NE



Looking Westbound

Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	13
85th Percentile Speed (MPH)	19
10 MPH Pace Speed	6-15 MPH
ADT	4,409

Both the mean speed and the 85th percentile speed were lower than the posted speed limit. The 85th percentile speed is 6 MPH lower than the posted speed limit.

Crash Data Analysis

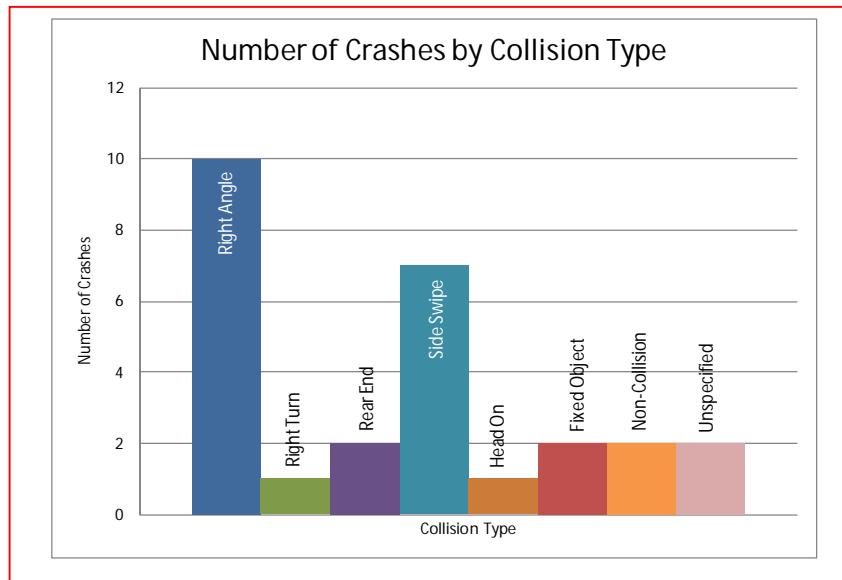
From the Accident Summary Report provided for the dates between January 1, 2010 and December 31, 2012, there were a total of 27 crashes at this location. A breakdown of number of crashes by collision type can be found in the chart on the next page. The most common types of crashes at this location were Right Angle (10 crashes), and Side Swiped (7 crashes). The other collision types had less than two crashes or less each.

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1200 Block Taylor Street NE

Severity			Weather			Surface condition			Light Condition		
Total	27										
Fatal	0	0.0%	Clear	17	63.0%	Dry	20	74.1%	Day	19	70.4%
Injury	10	37.0%	Rain	6	22.2%	Wet	7	25.9%	Night	7	25.9%
Truck	6	22.2%	Snow	1	3.7%	Snow/Ice	0	0.0%			
Bus	1	3.7%									



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 speed data analysis shows travel speeds being much lower than the posted speed limit.
2. Crash Data – There was a total of 27 crashes at this location, with the most common type being Right Angle and Side Swiped. There were ten injury-related crashes.
3. Field Assessment – The following site characteristics suggest a need for a safer travel environment:
 - a. The site is located in a residential area with driveways on both sides of the street.
 - b. There is one school in this area: Metropolitan Day School.
 - c. Turkey Thicket Playground is in the area which generates pedestrian activity.
 - d. There are multiple bus stops which generate pedestrian activity
 - e. There is on-street parking at this location



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1200 Block Taylor Street NE

Although the speed data analysis showed the mean and 85th percentile speeds to be lower than the posted speed limit, the crash data analysis revealed safety factors. Thus, due to the elevated number of speed-related and injury-related crashes, and the specific site characteristics of a residential area and the nearby 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

1200 block of Taylor St NE WB Speed

WB

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
11/09/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	17	9	0	0	0	0	0	0	0	0	0	0	0	0	26
02:00	17	21	2	0	0	0	0	0	0	0	0	0	0	0	40
03:00	32	7	0	0	0	0	0	0	0	0	0	0	0	0	39
04:00	14	16	2	0	0	0	0	0	0	0	0	0	0	0	32
05:00	18	19	5	0	0	0	0	0	0	0	0	0	0	0	42
06:00	34	33	3	0	0	0	0	0	0	0	0	0	0	0	70
07:00	38	51	6	0	1	0	0	0	0	0	0	0	0	0	96
08:00	64	75	14	0	0	0	0	0	0	0	0	0	0	0	153
09:00	135	32	2	0	0	0	0	0	0	0	0	0	0	0	169
10:00	201	31	0	0	0	0	0	0	0	0	0	0	0	0	232
11:00	158	58	2	0	0	0	0	0	0	0	0	0	0	0	218
12 PM	130	95	7	2	0	0	0	0	0	0	0	0	0	0	234
13:00	82	107	54	8	1	0	0	0	0	0	0	0	0	0	252
14:00	106	103	64	18	1	0	0	0	0	0	0	0	0	0	292
15:00	105	112	57	25	3	0	1	0	0	0	0	0	0	0	303
16:00	149	113	59	17	1	0	0	0	0	0	0	0	0	0	339
17:00	159	135	51	12	0	0	0	0	0	0	0	0	0	0	357
18:00	181	131	55	3	0	0	0	0	0	0	0	0	0	0	370
19:00	110	64	47	32	1	0	0	0	0	0	0	0	0	0	254
20:00	94	33	40	22	4	0	0	0	0	0	0	0	0	0	193
21:00	89	47	33	23	3	0	0	0	0	0	0	0	0	0	195
22:00	82	36	39	30	5	0	0	0	0	0	0	0	0	0	192
23:00	73	37	42	23	3	0	0	0	0	0	0	0	0	0	178
Total	2088	1365	584	215	23	0	1	0	0	0	0	0	0	0	4276

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

1200 block of Taylor St NE WB Speed

WB

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/10/13	59	21	15	13	5	0	0	0	0	0	0	0	0	0	113
01:00	11	7	2	0	0	0	0	0	0	0	0	0	0	0	20
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	70	28	17	13	5	0	0	0	0	0	0	0	0	0	133
Grand Total	2158	1393	601	228	28	0	1	0	0	0	0	0	0	0	4409

15th Percentile : 5 MPH
 50th Percentile : 11 MPH
 85th Percentile : 19 MPH
 95th Percentile : 24 MPH

Stats
 Mean Speed(Average) : 13 MPH
 10 MPH Pace Speed : 6-15 MPH
 Number in Pace : 2404
 Percent in Pace : 54.5%
 Number of Vehicles > 25 MPH : 195
 Percent of Vehicles > 25 MPH : 4.4%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

1200 block of Taylor St NE WB Volume

Start Time	09-Nov-13		Sun 10-Nov-13		Mon 11-Nov-13		Daily Average	
	Sat A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	*	52	31	*	*	*	31	52
12:15	*	62	33	*	*	*	33	62
12:30	*	64	23	*	*	*	23	64
12:45	*	56	26	*	*	*	26	56
01:00	*	54	20	*	*	*	20	54
01:15	9	67	*	*	*	*	9	67
01:30	5	85	*	*	*	*	5	85
01:45	12	46	*	*	*	*	12	46
02:00	9	59	*	*	*	*	9	59
02:15	13	72	*	*	*	*	13	72
02:30	10	90	*	*	*	*	10	90
02:45	8	71	*	*	*	*	8	71
03:00	9	77	*	*	*	*	9	77
03:15	11	83	*	*	*	*	11	83
03:30	7	63	*	*	*	*	7	63
03:45	12	80	*	*	*	*	12	80
04:00	7	66	*	*	*	*	7	66
04:15	8	97	*	*	*	*	8	97
04:30	7	90	*	*	*	*	7	90
04:45	10	86	*	*	*	*	10	86
05:00	4	75	*	*	*	*	4	75
05:15	10	92	*	*	*	*	10	92
05:30	21	95	*	*	*	*	21	95
05:45	7	95	*	*	*	*	7	95
06:00	9	87	*	*	*	*	9	87
06:15	19	91	*	*	*	*	19	91
06:30	20	108	*	*	*	*	20	108
06:45	22	84	*	*	*	*	22	84
07:00	27	66	*	*	*	*	27	66
07:15	21	46	*	*	*	*	21	46
07:30	21	66	*	*	*	*	21	66
07:45	27	76	*	*	*	*	27	76
08:00	37	44	*	*	*	*	37	44
08:15	28	48	*	*	*	*	28	48
08:30	42	57	*	*	*	*	42	57
08:45	46	44	*	*	*	*	46	44
09:00	40	41	*	*	*	*	40	41
09:15	36	51	*	*	*	*	36	51
09:30	43	47	*	*	*	*	43	47
09:45	50	56	*	*	*	*	50	56
10:00	46	53	*	*	*	*	46	53
10:15	51	38	*	*	*	*	51	38
10:30	54	45	*	*	*	*	54	45
10:45	81	56	*	*	*	*	81	56
11:00	55	36	*	*	*	*	55	36
11:15	58	67	*	*	*	*	58	67
11:30	47	43	*	*	*	*	47	43
11:45	58	32	*	*	*	*	58	32
Total	1117	3159	133	0	0	0	1250	3159
Combined Total	4276		133		0		4409	
Peak	10:30	05:45	12:00				10:30	05:45
Vol.	248	381	113				248	381
P.H.F.	0.765	0.882	0.856				0.765	0.882
ADT	ADT 4,409		AADT 4,409					

Accident Summary Report (R-8)

Corridor: TAYLOR ST,NE From TWELFTH ST,NE TO THIRTEENTH ST,NE

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

Prepared By: Rahul Jain

Prepared Date: 10/6/2013

		Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Accident:	27	Right Angle:	10	37.0%	Fixed Object:	2	7.4%
Total Number of Fatalities:	0	Left Turn:	0	0.0%	Ran Off Road:	0	0.0%
Total Number of Injuries:	12	Right Turn:	1	3.7%	Ped. Involved:	0	0.0%
Total Number of Disabling Injuries:	0	Rear End:	2	7.4%	Backing:	0	0.0%
Total Number of NonDisabling Injuries:	1	Side Swiped:	7	25.9%	Non Collision:	2	7.4%
Total Number of Pedestrians Involved:	0	Head On:	1	3.7%	Under/Over Ride:	0	0.0%
Total Number of Bicycles Involved:	0	Parked:	0	0.0%	Unspecified:	2	7.4%
Total Number of Motorcycles Involved:	1						

Time of Day	#ACC	%	Day o fweek	#ACC	%
07:30 ~ 09:30:	3	11.1%	Sunday:	4	14.8%
09:30 ~ 11:30:	2	7.4%	Monday:	3	11.1%
11:30 ~ 13:30:	5	18.5%	Tuesday:	3	11.1%
13:30 ~ 16:00:	3	11.1%	Wednesday:	1	3.7%
16:00 ~18:30:	6	22.2%	Thursday:	5	18.5%
18:30 ~ 07:30:	8	29.6%	Friday:	5	18.5%
Unspecified:	0	0.0%	Saturday:	6	22.2%

Weather Condition	#ACC	%	Surface Condition	#ACC	%
Clear:	17	63.0%	Dry:	20	74.1%
Rain:	6	22.2%	Wet:	7	25.9%
Snow:	1	3.7%	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:	3	11.1%	Unspecified:	0	0.0%

Type of Vehicle	#VEH	%	Accident Severity Type	#ACC	%
Passenger Car:	39	76.5%	Fatal Collision:	0	0.0%
Bus:	1	2.0%	Injury Collision:	10	37.0%
Truck:	6	11.8%	PDO Collision:	17	63.0%
Taxi:	0	0.0%			
Minivan:	0	0.0%	Light Condition	#ACC	%
Police/Emergency Vehicle:	1	2.0%	Daylight:	19	70.4%
Motorcycle/Moped:	1	2.0%	Dawn/Dusk:	1	3.7%
Bicycle:	0	0.0%	Dark(Lighted):	6	22.2%
Fixed Object:	0	0.0%	Dark(Not Lighted):	1	3.7%
Unspecified:	3	5.9%	Dark(Unknown Lighting):	0	0.0%
			Unspecified:	0	0.0%

Contributing Factor	#VEH	%	Pedestrian Actions	#ACC	%
Driver: Speed:	3	5.9%	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:	5	9.8%	In Unmarked Crosswalk:	0	0.0%
Vehicle:	0	0.0%	Not in Crosswalk:	0	0.0%
Roadway:	1	2.0%	From Between Parked Cars:	0	0.0%
Unspecified:	42	82.4%	Unspecified:	0	0.0%

14 Records are not approved as of 10/6/2013 2:59:03 PM