



District Department of Transportation

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

4600-5000 Block Fort Totten Drive NE

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
4	405	5	5A	Proposed	4600-5000 Blocks Fort Totten Drive Northeast Northbound



This *proposed* speed camera will be located in Ward 5 between blocks 4600 and 5000 of Fort Totten Drive Northeast in the northbound direction. Fort Totten Drive runs between Hamilton Street Northwest to the north and Hawaii Avenue Northeast to the south. The posted speed limit is 25 MPH.

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District Department of Transportation

4600-5000 Block Fort Totten Drive NE

Field Assessment Summary

Fort Totten Drive is assumed to run in the north-south direction, and is classified as a collector. Fort Totten Drive has one travel lane in each direction. This site has the following characteristics:

- This site is located in a residential area with apartments, houses, and driveways on the west side of the street.
- There is on-street parking and sidewalk with curb, gutter, and drainage inlets on the west side of the street.
- There are stop signs on Fort Totten Drive at Crittenden Street Northeast and Allison Street Northeast.
- The pavement is in fair condition.
- There is one school in the area: Christian Family Montessori School.
- Fort Totten Park is on the east side of the street.



Looking Northbound

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District Department of Transportation

4600-5000 Block Fort Totten Drive NE



Looking Southbound

Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	27
85th Percentile Speed (MPH)	34
10 MPH Pace Speed	25-34
ADT	3,685

The mean speed and 85th percentile speed are both higher than the posted speed limit at this location. The 85th percentile speed is 9 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 13 crashes at this location. A breakdown of collision type can be found in the chart on the next page. The most common type of collision at this location was Parked Vehicles with seven crashes.

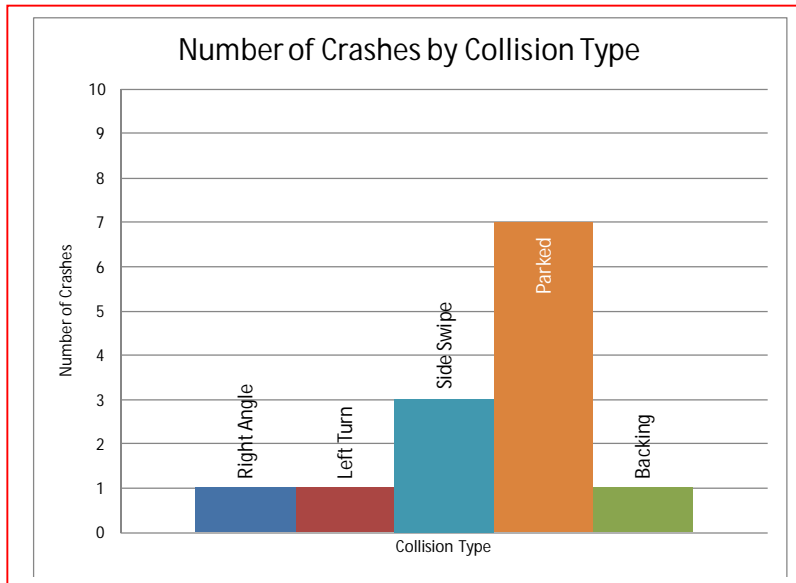
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District Department of Transportation

4600-5000 Block Fort Totten Drive NE

Severity			Weather			Surface condition			Light Condition		
Total	13										
Fatal	0	0.0%	Clear	10	76.9%	Dry	10	76.9%	Day	5	38.5%
Injury	1	7.7%	Rain	1	7.7%	Wet	2	15.4%	Night	6	46.2%
Truck	2	15.4%	Snow	1	7.7%	Snow/Ice	0	0.0%			
Emergency Vehicle	2	15.4%									



Safety Nexus

This site presents the following safety considerations which may support the 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 is a residential area with apartments, houses, and driveways on the west side of the street.
 - b. Fort Totten Park is on the east side of the street which generates pedestrian and bicycle activity.
 - c. There is one school in the area: Christian Family Montessori School.
 - d. There are several bus stops in the area which generate pedestrian activity.
 - e. There is on-street parking on the west side of the street.

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District Department of Transportation

4600-5000 Block Fort Totten Drive NE

Although the crash data analysis showed a low number of crashes at this location, due to the speed data analysis, the specific site characteristics, and 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

4600 to 5000 blocks of Fort Totten Dr NE NB Speed

NB

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
11/15/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	3	0	1	0	1	1	1	0	0	0	0	0	0	0	7
02:00	1	0	2	1	2	2	0	0	0	0	0	0	0	0	8
03:00	0	0	2	2	0	0	0	0	0	0	0	0	0	0	4
04:00	1	1	3	6	9	4	0	0	0	0	0	1	0	0	25
05:00	3	1	4	15	23	5	1	1	2	0	0	0	0	0	55
06:00	3	1	22	66	68	34	6	1	0	1	0	0	0	1	203
07:00	17	22	73	111	112	42	6	0	0	0	0	0	0	0	383
08:00	7	25	95	169	143	47	8	0	0	0	0	0	0	0	494
09:00	12	16	45	110	74	24	7	1	0	0	0	0	0	0	289
10:00	15	17	41	74	47	14	6	0	0	0	0	0	0	0	214
11:00	10	14	32	52	38	9	3	2	0	0	0	0	0	0	160
12 PM	7	14	26	74	34	19	4	4	0	0	0	0	0	0	182
13:00	21	9	20	38	22	8	3	0	0	0	0	0	0	0	121
14:00	8	7	36	58	59	17	2	1	1	0	0	0	0	0	189
15:00	6	8	21	73	57	24	3	0	0	0	0	0	0	0	192
16:00	8	11	52	62	41	14	5	0	0	0	0	0	0	0	193
17:00	26	23	66	63	39	8	3	1	0	0	0	0	0	0	229
18:00	11	7	31	67	42	13	2	0	0	0	0	0	0	0	173
19:00	5	5	26	57	39	17	2	0	0	0	0	0	0	0	151
20:00	3	3	23	41	31	10	2	0	0	0	0	0	0	0	113
21:00	1	7	25	38	17	9	4	0	0	0	0	0	0	0	101
22:00	3	4	9	18	24	6	1	2	1	0	0	0	0	0	68
23:00	2	1	7	25	14	8	1	0	0	0	0	0	0	0	58
Total	173	196	662	1220	936	335	70	13	4	1	0	1	0	1	3612

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

4600 to 5000 blocks of Fort Totten Dr NE NB Speed

NB

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
11/16/13	4	3	10	14	8	1	0	1	0	0	0	0	0	0	41
01:00	8	2	8	6	6	1	1	0	0	0	0	0	0	0	32
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	12	5	18	20	14	2	1	1	0	0	0	0	0	0	73
Grand Total	185	201	680	1240	950	337	71	14	4	1	0	1	0	1	3685

15th Percentile : 18 MPH
 50th Percentile : 27 MPH
 85th Percentile : 34 MPH
 95th Percentile : 38 MPH

Stats
 Mean Speed(Average) : 27 MPH
 10 MPH Pace Speed : 25-34 MPH
 Number in Pace : 1957
 Percent in Pace : 53.1%
 Number of Vehicles > 25 MPH : 2390
 Percent of Vehicles > 25 MPH : 64.9%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

4600 to 5000 blocks of Fort Totten Dr NE NB Volume

Start Time	15-Nov-13		16-Nov-13		17-Nov-13		Daily Average	
	Fri A.M.	P.M.	Sat A.M.	P.M.	Sun A.M.	P.M.	A.M.	P.M.
12:00	*	42	9	*	*	*	9	42
12:15	*	47	9	*	*	*	9	47
12:30	*	45	10	*	*	*	10	45
12:45	*	48	13	*	*	*	13	48
01:00	*	46	9	*	*	*	9	46
01:15	*	18	13	*	*	*	13	18
01:30	*	17	10	*	*	*	10	17
01:45	7	40	*	*	*	*	7	40
02:00	2	46	*	*	*	*	2	46
02:15	4	52	*	*	*	*	4	52
02:30	1	45	*	*	*	*	1	45
02:45	1	46	*	*	*	*	1	46
03:00	0	39	*	*	*	*	0	39
03:15	1	50	*	*	*	*	1	50
03:30	1	54	*	*	*	*	1	54
03:45	2	49	*	*	*	*	2	49
04:00	2	51	*	*	*	*	2	51
04:15	4	43	*	*	*	*	4	43
04:30	6	53	*	*	*	*	6	53
04:45	13	46	*	*	*	*	13	46
05:00	9	67	*	*	*	*	9	67
05:15	10	58	*	*	*	*	10	58
05:30	16	66	*	*	*	*	16	66
05:45	20	38	*	*	*	*	20	38
06:00	26	38	*	*	*	*	26	38
06:15	33	49	*	*	*	*	33	49
06:30	49	35	*	*	*	*	49	35
06:45	95	51	*	*	*	*	95	51
07:00	81	49	*	*	*	*	81	49
07:15	90	42	*	*	*	*	90	42
07:30	104	35	*	*	*	*	104	35
07:45	108	25	*	*	*	*	108	25
08:00	112	26	*	*	*	*	112	26
08:15	134	33	*	*	*	*	134	33
08:30	135	24	*	*	*	*	135	24
08:45	113	30	*	*	*	*	113	30
09:00	89	30	*	*	*	*	89	30
09:15	93	21	*	*	*	*	93	21
09:30	58	25	*	*	*	*	58	25
09:45	49	25	*	*	*	*	49	25
10:00	53	15	*	*	*	*	53	15
10:15	43	16	*	*	*	*	43	16
10:30	65	19	*	*	*	*	65	19
10:45	53	18	*	*	*	*	53	18
11:00	39	18	*	*	*	*	39	18
11:15	37	10	*	*	*	*	37	10
11:30	47	16	*	*	*	*	47	16
11:45	37	14	*	*	*	*	37	14
Total	1842	1770	73	0	0	0	1915	1770
Combined Total	3612		73		0		3685	
Peak	08:00	04:45	00:30				08:00	04:45
Vol.	494	237	45				494	237
P.H.F.	0.915	0.884	0.865				0.915	0.884
ADT	ADT 3,685		AADT 3,685					

Accident Summary Report (R-8)

Corridor: FORT TOTTEN DR,NE From ALLISON ST,NE TO FARRAGUT ST,NE

Time Period Covered: From 01/01/2010 To 12/31/2012 **Prepared By:** Rahul Jain

Prepared Date: 9/16/2013

Total Number of Accident:	13	Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Fatalities:	0	Right Angle:	1	7.7%	Fixed Object:	0	0.0%
Total Number of Injuries:	2	Left Turn:	1	7.7%	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:	0	Rear End:	0	0.0%	Backing:	1	7.7%
Total Number of Pedestrians Involved:	0	Side Swiped:	3	23.1%	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:	7	53.8%	Unspecified:	0	0.0%
Time of Day				Day of week			
	#ACC	%			#ACC	%	
07:30 ~ 09:30:	2	15.4%		Sunday:	2	15.4%	
09:30 ~ 11:30:	0	0.0%		Monday:	2	15.4%	
11:30 ~ 13:30:	0	0.0%		Tuesday:	2	15.4%	
13:30 ~ 16:00:	3	23.1%		Wednesday:	1	7.7%	
16:00 ~ 18:30:	2	15.4%		Thursday:	2	15.4%	
18:30 ~ 07:30:	6	46.2%		Friday:	2	15.4%	
Unspecified:	0	0.0%		Saturday:	2	15.4%	
Weather Condition				Surface Condition			
	#ACC	%			#ACC	%	
Clear:	10	76.9%		Dry:	10	76.9%	
Rain:	1	7.7%		Wet:	2	15.4%	
Snow:	1	7.7%		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:	1	7.7%		Unspecified:	1	7.7%	
Type of Vehicle				Accident Severity Type			
	#VEH	%			#ACC	%	
Passenger Car:	19	63.3%		Fatal Collision:	0	0.0%	
Bus:	0	0.0%		Injury Collision:	1	7.7%	
Truck:	2	6.7%		PDO Collision:	12	92.3%	
Taxi:	1	3.3%		Light Condition			
Minivan:	0	0.0%			#ACC	%	
Police/Emergency Vehicle:	2	6.7%		Daylight:	5	38.5%	
Motorcycle/Moped:	0	0.0%		Dawn/Dusk:	0	0.0%	
Bicycle:	0	0.0%		Dark(Lighted):	6	46.2%	
Fixed Object:	0	0.0%		Dark(Not Lighted):	0	0.0%	
Unspecified:	6	20.0%		Dark(Unknown Lighting):	0	0.0%	
				Unspecified:	2	15.4%	
Contributing Factor				Pedestrian Actions			
	#VEH	%			#ACC	%	
Driver: Speed:	1	3.3%		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:	4	13.3%		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:	25	83.3%		Unspecified:	0	0.0%	

8 Records are not approved as of 9/16/2013 6:03:17 PM