



District Department of Transportation

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

### 3900 Block Pennsylvania Avenue SE SE/B

### Study Area and Location

District	PSA	Ward	ANC	Phase	Description
6	605	7	7B	Existing	3900 Block Pennsylvania Avenue Southeast Southeast-bound



The existing speed camera is located in Ward 7 at the 3900 block of Pennsylvania Avenue Southeast in the southeast-bound direction. Pennsylvania Avenue Southeast runs between Independence Avenue Southeast to the west and Southern Avenue Southeast to the east. The posted speed limit is 30 MPH. This speed camera was installed on August 2012.

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District Department of Transportation

3900 Block Pennsylvania Avenue SE SE/B

## Field Assessment Summary

Pennsylvania Avenue is assumed to run in a northwest-southeast direction, and is classified as a principal arterial. Pennsylvania Avenue has two travel lanes in each direction. This site has the following characteristics:

- This is a residential area with houses, apartments, and driveways.
- There is a bike trail in the area.
- There is one school in the area: Anne Beers Elementary.
- A warning sign was noted in the area "CAUTION - Blind Pedestrian In Area." Thus, there is a blind pedestrian in the area.
- There is sidewalk on both sides of the street and a crosswalk with an in-street pedestrian crossing sign at 40<sup>th</sup> Street.
- There are grassy medians and parking on both sides of the street.
- The pavement is in good condition and there is curb and gutter with drainage inlets. There is a slope downgrade southbound.
- There are transverse pavement markings.
- There is a traffic signal with pedestrian signals at Fort Davis Street SE.
- There are bus stops on both sides of the street at 40<sup>th</sup> Street.



Looking Northwest-bound

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District Department of Transportation

3900 Block Pennsylvania Avenue SE SE/B



Looking Southeast-bound

## Speed Data Analysis

	Northwest-Bound	Southeast-Bound
Posted Speed Limit (MPH)	30	30
Mean Speed (MPH)	17	22
85th Percentile Speed (MPH)	25	28
10 MPH Pace Speed (MPH)	17-26	20-29
Sample Size	6,880	7,870
ADT	14,750	

The mean speed is less than the posted speed by 13 MPH for the NW direction and 8 MPH for the SE direction. The 85<sup>th</sup> percentile speed is less than the posted speed by 5 MPH in the NW direction and 2 MPH in the SE direction.

## 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 48 crashes at this location. A breakdown of number of crashes by collisions type can be found in the chart on the next page. The most common types of crashes at this location were Rear End (13),

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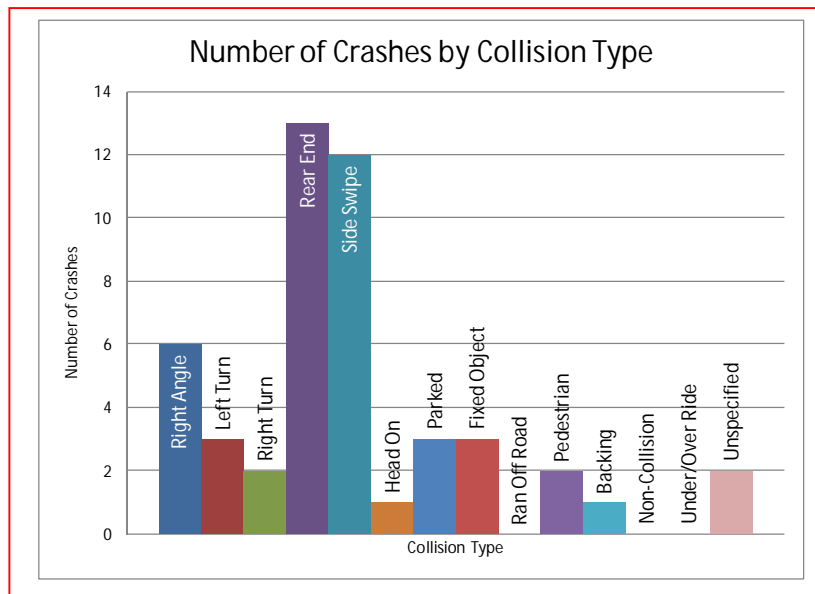


District Department of Transportation

3900 Block Pennsylvania Avenue SE SE/B

Side Swiped (12) and Right Angle (6). Furthermore, this site experienced a high frequency (20 crashes) of injury-related crashes.

Severity			Weather			Surface condition			Light Condition		
Total	48										
Fatal	0	0.0%	Clear	41	85.4%	Dry	35	72.9%	Day	26	54.2%
Injury	20	41.7%	Rain	4	8.3%	Wet	7	14.6%	Night	18	37.5%
Truck	7	14.6%	Snow	1	2.1%	Snow/Ice	1	2.1%			
Taxi	3	6.3%									



There was an elevated number of speed related crashes at this location, including rear end and side swipe crashes. The Highway Safety Manual lists “assuming the lead driver will go through a green or yellow light, but the lead driver stops” and “changing lanes to avoid a slowing or stopped vehicle”<sup>1</sup> as two errors leading to rear end and side swipe crashes. Both of these errors can be decreased with a decrease in travel speed.

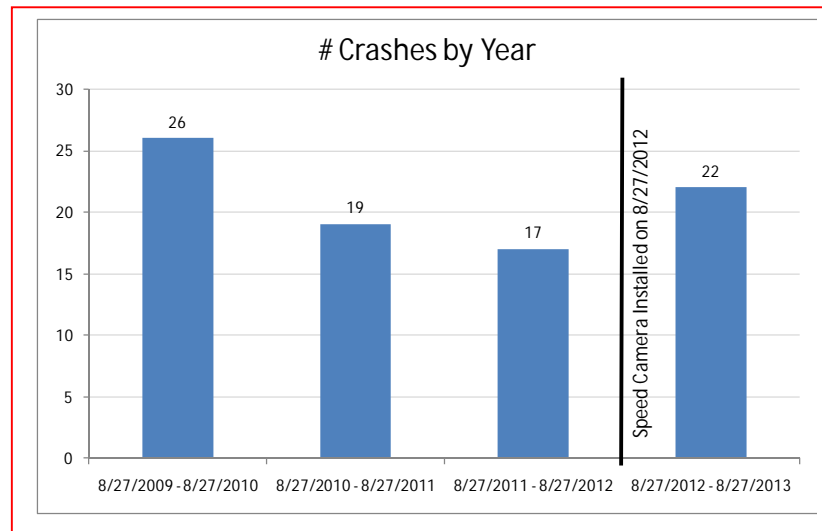
The speed camera was installed on 8/27/2012. The graph on the next page shows the number of crashes in the 3 years prior to the speed camera’s installation (62 crashes) and the year after the speed camera’s installation (22 crashes). There was a slight increase in number of crashes after the installation of the camera.

<sup>1</sup> AASHTO Highway Safety Manual, 1<sup>st</sup> Edition, 2010; Volume 1, page 2-13



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3900 Block Pennsylvania Avenue SE SE/B



The Pennsylvania Avenue Corridor is listed as one of the top ten high frequency crash corridors from 2009 to 2011, according to the report *TRAFFIC SAFETY STATISTICS REPORT FOR THE DISTRICT OF COLUMBIA (2009-2011)*<sup>2</sup>.

## Safety Nexus

This site presents the following safety considerations which may establish a nexus between traffic safety and the speed camera.

1. Speed Data – The speed data analysis shows travel speeds being lower than the posted speed limit.
2. Crash Data – There was an elevated number of speed-related crashes at this location, including rear end and side swipe collisions, as well as a high frequency (20 crashes) of injury-related crashes. The Pennsylvania Avenue Corridor is listed as one of the top ten high frequency crash corridors from 2009 to 2011.
3. Field Assessment – The following site characteristics suggest a need for a safer travel environment:
  - a. This is a residential area with houses, apartments, and driveways.
  - b. There is one school in the area: Anne Beers Elementary.
  - c. A warning sign was noted in the area “CAUTION - Blind Pedestrian In Area.” Thus, there is a blind pedestrian in the area, which necessitates a slower travel environment.
  - d. There is a bike trail in the area which generates pedestrian and bicycle activity.
  - e. There are several bus stops in the area which generate pedestrian activity.
  - f. There is on-street parking on both sides of the street.

<sup>2</sup> DDOT, *TRAFFIC SAFETY STATISTICS REPORT FOR THE DISTRICT OF COLUMBIA (2009-2011)*, pg. 80.



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Although the speed data analysis showed the mean and 85th percentile speeds to be lower than the posted speed limit, due to the elevated number of speed-related crashes and injury-related crashes, the specific site characteristics, the presence of a blind pedestrian in the area 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](http://www.sammateng.com)

## 3900 block of Pennsylvania Ave SE Speed

SEB

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/23/13	9	16	50	55	11	0	0	0	0	0	0	0	0	0	141
01:00	5	14	49	42	14	3	1	0	0	0	0	0	0	0	128
02:00	3	5	27	57	9	2	0	0	0	0	0	0	0	0	103
03:00	1	4	17	39	15	1	0	0	0	0	0	0	0	0	77
04:00	2	5	23	44	23	6	0	0	1	0	0	0	0	0	104
05:00	4	18	52	71	51	10	1	0	0	0	0	0	0	0	207
06:00	11	14	69	120	54	9	1	0	0	0	0	0	0	0	278
07:00	16	24	91	144	66	12	1	0	0	0	0	0	0	0	354
08:00	23	39	131	150	48	5	3	0	0	0	0	0	0	0	399
09:00	43	69	131	133	35	5	0	0	1	0	0	0	0	0	417
10:00	33	46	165	149	28	1	0	0	0	0	0	0	0	0	422
11:00	43	47	139	185	38	4	0	0	0	0	0	0	0	0	456
12 PM	64	51	173	121	31	1	0	0	0	0	0	0	0	0	441
13:00	73	83	155	126	24	1	0	0	0	0	0	0	0	0	462
14:00	65	69	162	114	9	1	0	0	0	0	0	0	0	0	420
15:00	72	71	183	114	21	1	1	0	0	0	0	0	0	0	463
16:00	55	59	167	121	20	3	1	0	0	0	0	0	0	0	426
17:00	51	67	168	80	10	1	0	0	0	0	0	0	0	0	377
18:00	43	77	174	110	12	2	0	0	0	0	0	0	0	0	418
19:00	59	82	177	100	20	0	0	0	0	0	0	0	0	0	438
20:00	33	67	151	91	15	1	0	0	0	0	0	0	0	0	358
21:00	26	69	154	82	20	1	0	0	0	0	0	0	0	0	352
22:00	30	46	137	102	19	0	0	0	0	0	0	0	0	0	334
23:00	15	33	90	95	18	1	0	0	0	0	0	0	0	0	252
Total	779	1075	2835	2445	611	71	9	0	2	0	0	0	0	0	7827

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MOUNT AIRY, MD 21771

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## 3900 block of Pennsylvania Ave SE Speed

SEB	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	
11/24/13	4	3	14	13	8	1	0	0	0	0	0	0	0	0	43
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	4	3	14	13	8	1	0	0	0	0	0	0	0	0	43
Grand Total	783	1078	2849	2458	619	72	9	0	2	0	0	0	0	0	7870

15th Percentile : 11 MPH  
 50th Percentile : 22 MPH  
 85th Percentile : 28 MPH  
 95th Percentile : 32 MPH

Stats  
 Mean Speed(Average) : 22 MPH  
 10 MPH Pace Speed : 20-29 MPH  
 Number in Pace : 4256  
 Percent in Pace : 54.1%  
 Number of Vehicles > 30 MPH : 804  
 Percent of Vehicles > 30 MPH : 10.2%



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## 3900 block of Pennsylvania 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
11/23/13	14	39	68	40	11	2	0	0	0	0	0	0	0	0	174
01:00	8	25	66	54	10	0	0	0	0	0	0	0	0	0	163
02:00	2	13	53	56	21	3	0	0	0	0	0	0	0	0	148
03:00	7	25	51	43	14	6	0	0	0	0	0	0	0	0	146
04:00	2	8	29	41	16	1	1	0	0	0	0	0	0	0	98
05:00	9	9	30	36	9	3	1	0	0	0	0	0	0	0	97
06:00	7	11	60	43	10	1	1	0	0	0	0	0	0	0	133
07:00	21	22	100	66	18	4	0	0	0	0	0	0	0	0	231
08:00	35	39	103	77	11	3	0	0	0	0	0	0	0	0	268
09:00	38	36	125	70	8	1	0	0	0	0	0	0	0	0	278
10:00	83	61	93	46	6	0	0	0	0	0	0	0	0	0	289
11:00	99	71	112	44	11	0	0	0	0	0	0	0	0	0	337
12 PM	144	101	103	36	4	1	0	0	0	0	0	0	0	0	389
13:00	161	83	96	35	2	0	0	0	0	0	0	0	0	0	377
14:00	142	56	65	25	6	0	0	0	0	0	0	0	0	0	294
15:00	139	85	85	29	5	0	0	0	0	0	0	0	0	0	343
16:00	157	95	88	36	6	0	0	0	0	0	0	0	0	0	382
17:00	115	111	87	19	6	0	0	0	0	0	0	0	0	0	338
18:00	96	95	83	40	5	0	0	0	0	0	0	0	0	0	319
19:00	86	109	102	45	8	0	0	0	0	0	0	0	0	0	350
20:00	60	106	116	66	6	0	0	0	0	0	0	0	0	0	354
21:00	69	103	170	72	15	2	0	0	0	0	0	0	0	0	431
22:00	119	101	189	59	13	1	0	0	0	0	0	0	0	0	482
23:00	73	76	172	63	6	1	0	0	0	0	0	0	0	0	391
Total	1686	1480	2246	1141	227	29	3	0	0	0	0	0	0	0	6812

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## 3900 block of Pennsylvania Ave SE Speed

NWB															
Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total
	15	20	25	30	35	40	45	50	55	60	65	70	75	999	
11/24/13	4	16	24	18	6	0	0	0	0	0	0	0	0	0	68
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	4	16	24	18	6	0	0	0	0	0	0	0	0	0	68
Grand Total	1690	1496	2270	1159	233	29	3	0	0	0	0	0	0	0	6880

15th Percentile : 7 MPH  
 50th Percentile : 17 MPH  
 85th Percentile : 25 MPH  
 95th Percentile : 29 MPH

Stats  
 Mean Speed(Average) : 17 MPH  
 10 MPH Pace Speed : 17-26 MPH  
 Number in Pace : 2803  
 Percent in Pace : 40.7%  
 Number of Vehicles > 30 MPH : 288  
 Percent of Vehicles > 30 MPH : 4.2%

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## 3900 block of Pennsylvania Ave SE Volume

Start Time	23-Nov-13		SEB		NWB		Combined		24-Nov-Sun	SEB		NWB		Combined		
	Sat		A.M.	P.M.	A.M.	P.M.	A.M.	P.M.		A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	
12:00		*	105		*	82	*	187		43	*		68	*	111	*
12:15			46	112	59	84	105	<b>196</b>		*	*	*	*	*	*	*
12:30			43	122	53	104	96	<b>226</b>		*	*	*	*	*	*	*
12:45			52	102	62	119	114	<b>221</b>		*	*	*	*	*	*	*
01:00			32	128	43	101	75	<b>229</b>		*	*	*	*	*	*	*
01:15			30	101	36	89	66	190		*	*	*	*	*	*	*
01:30			36	108	40	115	76	223		*	*	*	*	*	*	*
01:45			30	125	44	72	74	197		*	*	*	*	*	*	*
02:00			27	103	41	86	68	189		*	*	*	*	*	*	*
02:15			25	112	33	68	58	180		*	*	*	*	*	*	*
02:30			20	92	45	74	65	166		*	*	*	*	*	*	*
02:45			31	<b>113</b>	29	66	60	179		*	*	*	*	*	*	*
03:00			15	<b>126</b>	30	82	45	208		*	*	*	*	*	*	*
03:15			26	<b>120</b>	37	85	63	205		*	*	*	*	*	*	*
03:30			16	<b>111</b>	36	105	52	216		*	*	*	*	*	*	*
03:45			20	106	43	71	63	177		*	*	*	*	*	*	*
04:00			18	115	35	90	53	205		*	*	*	*	*	*	*
04:15			16	107	28	100	44	207		*	*	*	*	*	*	*
04:30			32	110	20	88	52	198		*	*	*	*	*	*	*
04:45			38	94	15	104	53	198		*	*	*	*	*	*	*
05:00			43	95	23	79	66	174		*	*	*	*	*	*	*
05:15			53	104	30	78	83	182		*	*	*	*	*	*	*
05:30			52	97	17	85	69	182		*	*	*	*	*	*	*
05:45			59	81	27	96	86	177		*	*	*	*	*	*	*
06:00			62	90	22	68	84	158		*	*	*	*	*	*	*
06:15			66	102	28	91	94	193		*	*	*	*	*	*	*
06:30			86	102	39	76	125	178		*	*	*	*	*	*	*
06:45			64	124	44	84	108	208		*	*	*	*	*	*	*
07:00			77	114	48	100	125	214		*	*	*	*	*	*	*
07:15			84	119	69	90	153	209		*	*	*	*	*	*	*
07:30			91	107	55	67	146	174		*	*	*	*	*	*	*
07:45			102	98	59	93	161	191		*	*	*	*	*	*	*
08:00			96	98	70	92	166	190		*	*	*	*	*	*	*
08:15			103	83	62	93	165	176		*	*	*	*	*	*	*
08:30			94	105	65	81	159	186		*	*	*	*	*	*	*
08:45			106	72	71	88	177	160		*	*	*	*	*	*	*
09:00			119	99	63	108	182	207		*	*	*	*	*	*	*
09:15			120	91	67	101	187	192		*	*	*	*	*	*	*
09:30			92	75	79	93	171	168		*	*	*	*	*	*	*
09:45			86	87	69	<b>129</b>	155	216		*	*	*	*	*	*	*
10:00			108	86	57	<b>110</b>	165	196		*	*	*	*	*	*	*
10:15			109	110	78	<b>136</b>	187	246		*	*	*	*	*	*	*
10:30			103	74	67	<b>118</b>	170	192		*	*	*	*	*	*	*
10:45			<b>102</b>	64	87	118	189	182		*	*	*	*	*	*	*
11:00			<b>115</b>	75	<b>73</b>	119	<b>188</b>	194		*	*	*	*	*	*	*
11:15			<b>106</b>	57	<b>91</b>	124	<b>197</b>	181		*	*	*	*	*	*	*
11:30			<b>133</b>	67	<b>82</b>	75	<b>215</b>	142		*	*	*	*	*	*	*
11:45			102	53	<b>91</b>	73	<b>193</b>	126		*	*	*	*	*	*	*

Total	3086	4741	2362	4450	5448	9191		43	0	68	0	111	0
Day Total	7827		6812		14639			43		68		111	
% Total	21.1%	32.4%	16.1%	30.4%			38.7%	0.0%	61.3%	0.0%			
Peak	10:45	02:45	11:00	09:45	11:00	00:15							
Vol.	456	470	337	493	793	872							
P.H.F.	0.857	0.918	0.926	0.906	0.922	0.952							

ADT                      ADT 14,750                      AADT 14,750

DC Department of Transportation - Traffic Accident Reporting and Analysis System

## Accident Summary Report (R-8)

**Corridor:** PENNSYLVANIA AVE,NW,SE From ALABAMA AVE,SE TO FORTIETH ST,SE

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

**Prepared By:** Rahul Jain

**Prepared Date:** 11/26/2012

Total Number of Accident:	48	<b>Collision Type</b>	<b>#ACC</b>	<b>%</b>	<b>Collision Type</b>	<b>#ACC</b>	<b>%</b>
Total Number of Fatalities:	0	Right Angle:	6	12.5%	Fixed Object:	3	6.3%
Total Number of Injuries:	23	Left Turn:	3	6.3%	Ran Off Road:	0	0.0%
Total Number of Disabling Injuries:	4	Right Turn:	2	4.2%	Ped. Involved:	2	4.2%
Total Number of NonDisabling Injuries:	2	Rear End:	13	27.1%	Backing:	1	2.1%
Total Number of Pedestrians Involved:	2	Side Swiped:	12	25.0%	Non Collision:	0	0.0%
Total Number of Bicycles Involved:	0	Head On:	1	2.1%	Under/Over Ride:	0	0.0%
Total Number of Motorcycles Involved:	0	Parked:	3	6.3%	Unspecified:	2	4.2%
<b>Time of Day</b>				<b>#ACC</b>	<b>%</b>	<b>Day of week</b>	
07:30 ~ 09:30:				7	14.6%	Sunday:	
09:30 ~ 11:30:				6	12.5%	Monday:	
11:30 ~ 13:30:				3	6.3%	Tuesday:	
13:30 ~ 16:00:				3	6.3%	Wednesday:	
16:00 ~ 18:30:				5	10.4%	Thursday:	
18:30 ~ 07:30:				24	50.0%	Friday:	
Unspecified:				0	0.0%	Saturday:	
07:30 ~ 09:30:				7	14.6%	Sunday:	
09:30 ~ 11:30:				6	12.5%	Monday:	
11:30 ~ 13:30:				3	6.3%	Tuesday:	
13:30 ~ 16:00:				3	6.3%	Wednesday:	
16:00 ~ 18:30:				5	10.4%	Thursday:	
18:30 ~ 07:30:				24	50.0%	Friday:	
Unspecified:				0	0.0%	Saturday:	
<b>Weather Condition</b>				<b>#ACC</b>	<b>%</b>	<b>Surface Condition</b>	
Clear:				41	85.4%	Dry:	
Rain:				4	8.3%	Wet:	
Snow:				1	2.1%	Snow/Ice:	
Sleet/Hail:				0	0.0%	Slush:	
Fog/Mist:				0	0.0%	Water/Sand:	
Crosswind/Blowing Sand:				0	0.0%	Repairing:	
Unspecified:				2	4.2%	Unspecified:	
Clear:				41	85.4%	Dry:	
Rain:				4	8.3%	Wet:	
Snow:				1	2.1%	Snow/Ice:	
Sleet/Hail:				0	0.0%	Slush:	
Fog/Mist:				0	0.0%	Water/Sand:	
Crosswind/Blowing Sand:				0	0.0%	Repairing:	
Unspecified:				2	4.2%	Unspecified:	
<b>Type of Vehicle</b>				<b>#VEH</b>	<b>%</b>	<b>Accident Severity Type</b>	
Passenger Car:				81	86.2%	Fatal Collision:	
Bus:				1	1.1%	Injury Collision:	
Truck:				7	7.4%	PDO Collision:	
Taxi:				3	3.2%		
Minivan:				0	0.0%	<b>Light Condition</b>	
Police/Emergency Vehicle:				2	2.1%	Daylight:	
Motorcycle/Moped:				0	0.0%	Dawn/Dusk:	
Bicycle:				0	0.0%	Dark(Lighted):	
Fixed Object:				0	0.0%	Dark(Not Lighted):	
Unspecified:				0	0.0%	Dark(Unknown Lighting):	
Passenger Car:				81	86.2%	Unspecified:	
Bus:				1	1.1%		
Truck:				7	7.4%		
Taxi:				3	3.2%		
Minivan:				0	0.0%		
Police/Emergency Vehicle:				2	2.1%		
Motorcycle/Moped:				0	0.0%		
Bicycle:				0	0.0%		
Fixed Object:				0	0.0%		
Unspecified:				0	0.0%		
<b>Contributing Factor</b>				<b>#VEH</b>	<b>%</b>	<b>Pedestrian Actions</b>	
Driver: Speed:				1	1.1%	In Crosswalk with Signal:	
Driver: Alcohol/Drug:				2	2.1%	In Crosswalk against Signal:	
Driver: Electronic Device:				0	0.0%	In Crosswalk no Signal:	
Driver: Others:				21	22.3%	In Unmarked Crosswalk:	
Vehicle:				0	0.0%	Not in Crosswalk:	
Roadway:				0	0.0%	From Between Parked Cars:	
Unspecified:				70	74.5%	Unspecified:	
Driver: Speed:				1	1.1%	In Crosswalk with Signal:	
Driver: Alcohol/Drug:				2	2.1%	In Crosswalk against Signal:	
Driver: Electronic Device:				0	0.0%	In Crosswalk no Signal:	
Driver: Others:				21	22.3%	In Unmarked Crosswalk:	
Vehicle:				0	0.0%	Not in Crosswalk:	
Roadway:				0	0.0%	From Between Parked Cars:	
Unspecified:				70	74.5%	Unspecified:	

30 Records are not approved as of 11/26/2013 11:24:24 AM

DC Department of Transportation - Traffic Accident Reporting and Analysis System

## Accident Summary Report (R-8)

**Corridor:** PENNSYLVANIA AVE,NW,SE From ALABAMA AVE,SE TO FORTIETH ST,SE

**Time Period Covered:** From 08/27/2009 To 08/27/2010

**Prepared By:** Rahul Jain

**Prepared Date:** 1/14/2014

		<b>Collision Type</b>	<b>#ACC</b>	<b>%</b>	<b>Collision Type</b>	<b>#ACC</b>	<b>%</b>
Total Number of Accident:	26	Right Angle:	5	19.2%	Fixed Object:	0	0.0%
Total Number of Fatalities:	0	Left Turn:	0	0.0%	Ran Off Road:	1	3.8%
Total Number of Injuries:	15	Right Turn:	0	0.0%	Ped. Involved:	1	3.8%
Total Number of Disabling Injuries:	0	Rear End:	9	34.6%	Backing:	0	0.0%
Total Number of NonDisabling Injuries:	4	Side Swiped:	6	23.1%	Non Collision:	0	0.0%
Total Number of Pedestrians Involved:	1	Head On:	1	3.8%	Under/Over Ride:	0	0.0%
Total Number of Bicycles Involved:	0	Parked:	3	11.5%	Unspecified:	0	0.0%
Total Number of Motorcycles Involved:	0						

<b>Time of Day</b>	<b>#ACC</b>	<b>%</b>
07:30 ~ 09:30:	2	7.7%
09:30 ~ 11:30:	3	11.5%
11:30 ~ 13:30:	0	0.0%
13:30 ~ 16:00:	6	23.1%
16:00 ~18:30:	3	11.5%
18:30 ~ 07:30:	12	46.2%
Unspecified:	0	0.0%

<b>Day o fweek</b>	<b>#ACC</b>	<b>%</b>
Sunday:	6	23.1%
Monday:	2	7.7%
Tuesday:	1	3.8%
Wednesday:	3	11.5%
Thursday:	5	19.2%
Friday:	3	11.5%
Saturday:	6	23.1%

<b>Weather Condition</b>	<b>#ACC</b>	<b>%</b>
Clear:	23	88.5%
Rain:	3	11.5%
Snow:	0	0.0%
Sleet/Hail:	0	0.0%
Fog/Mist:	0	0.0%
Crosswind/Blowing Sand:	0	0.0%
Unspecified:	0	0.0%

<b>Surface Condition</b>	<b>#ACC</b>	<b>%</b>
Dry:	20	76.9%
Wet:	5	19.2%
Snow/Ice:	0	0.0%
Slush:	0	0.0%
Water/Sand:	0	0.0%
Repairing:	0	0.0%
Unspecified:	1	3.8%

<b>Type of Vehicle</b>	<b>#VEH</b>	<b>%</b>
Passenger Car:	40	78.4%
Bus:	1	2.0%
Truck:	4	7.8%
Taxi:	3	5.9%
Minivan:	0	0.0%
Police/Emergency Vehicle:	0	0.0%
Motorcycle/Moped:	0	0.0%
Bicycle:	0	0.0%
Fixed Object:	0	0.0%
Unspecified:	3	5.9%

<b>Accident Severity Type</b>	<b>#ACC</b>	<b>%</b>
Fatal Collision:	0	0.0%
Injury Collision:	9	34.6%
PDO Collision:	17	65.4%

<b>Light Condition</b>	<b>#ACC</b>	<b>%</b>
Daylight:	16	61.5%
Dawn/Dusk:	1	3.8%
Dark(Lighted):	9	34.6%
Dark(Not Lighted):	0	0.0%
Dark(Unknown Lighting):	0	0.0%
Unspecified:	0	0.0%

<b>Contributing Factor</b>	<b>#VEH</b>	<b>%</b>
Driver: Speed:	0	0.0%
Driver: Alcohol/Drug:	1	2.0%
Driver: Electronic Device:	0	0.0%
Driver: Others:	11	21.6%
Vehicle:	0	0.0%
Roadway:	0	0.0%
Unspecified:	39	76.5%

<b>Pedestrian Actions</b>	<b>#ACC</b>	<b>%</b>
In Crosswalk with Signal:	0	0.0%
In Crosswalk against Signal:	0	0.0%
In Crosswalk no Signal:	0	0.0%
In Unmarked Crosswalk:	0	0.0%
Not in Crosswalk:	0	0.0%
From Between Parked Cars:	0	0.0%
Unspecified:	1	100.0%

10 Records are not approved as of 1/14/2014 11:16:44 AM



DC Department of Transportation - Traffic Accident Reporting and Analysis System

## Accident Summary Report (R-8)

**Corridor:** PENNSYLVANIA AVE,NW,SE From ALABAMA AVE,SE TO FORTIETH ST,SE

**Time Period Covered:** From 08/27/2010 To 08/27/2011

**Prepared By:** Rahul Jain

**Prepared Date:** 1/14/2014

		<b>Collision Type</b>	<b>#ACC</b>	<b>%</b>	<b>Collision Type</b>	<b>#ACC</b>	<b>%</b>
Total Number of Accident:	19	Right Angle:	4	21.1%	Fixed Object:	0	0.0%
Total Number of Fatalities:	0	Left Turn:	2	10.5%	Ran Off Road:	0	0.0%
Total Number of Injuries:	10	Right Turn:	2	10.5%	Ped. Involved:	2	10.5%
Total Number of Disabling Injuries:	3	Rear End:	6	31.6%	Backing:	0	0.0%
Total Number of NonDisabling Injuries:	1	Side Swiped:	2	10.5%	Non Collision:	0	0.0%
Total Number of Pedestrians Involved:	2	Head On:	0	0.0%	Under/Over Ride:	0	0.0%
Total Number of Bicycles Involved:	0	Parked:	0	0.0%	Unspecified:	1	5.3%
Total Number of Motorcycles Involved:	0						

<b>Time of Day</b>	<b>#ACC</b>	<b>%</b>	<b>Day o fweek</b>	<b>#ACC</b>	<b>%</b>
07:30 ~ 09:30:	2	10.5%	Sunday:	4	21.1%
09:30 ~ 11:30:	3	15.8%	Monday:	1	5.3%
11:30 ~ 13:30:	2	10.5%	Tuesday:	3	15.8%
13:30 ~ 16:00:	1	5.3%	Wednesday:	2	10.5%
16:00 ~18:30:	3	15.8%	Thursday:	4	21.1%
18:30 ~ 07:30:	8	42.1%	Friday:	2	10.5%
Unspecified:	0	0.0%	Saturday:	3	15.8%

<b>Weather Condition</b>	<b>#ACC</b>	<b>%</b>	<b>Surface Condition</b>	<b>#ACC</b>	<b>%</b>
Clear:	16	84.2%	Dry:	13	68.4%
Rain:	2	10.5%	Wet:	2	10.5%
Snow:	1	5.3%	Snow/Ice:	1	5.3%
Sleet/Hail:	0	0.0%	Slush:	0	0.0%
Fog/Mist:	0	0.0%	Water/Sand:	1	5.3%
Crosswind/Blowing Sand:	0	0.0%	Repairing:	2	10.5%
Unspecified:	0	0.0%	Unspecified:	0	0.0%

<b>Type of Vehicle</b>	<b>#VEH</b>	<b>%</b>	<b>Accident Severity Type</b>	<b>#ACC</b>	<b>%</b>
Passenger Car:	28	80.0%	Fatal Collision:	0	0.0%
Bus:	1	2.9%	Injury Collision:	9	47.4%
Truck:	4	11.4%	PDO Collision:	10	52.6%
Taxi:	1	2.9%	<b>Light Condition</b>	<b>#ACC</b>	<b>%</b>
Minivan:	0	0.0%	Daylight:	11	57.9%
Police/Emergency Vehicle:	1	2.9%	Dawn/Dusk:	2	10.5%
Motorcycle/Moped:	0	0.0%	Dark(Lighted):	6	31.6%
Bicycle:	0	0.0%	Dark(Not Lighted):	0	0.0%
Fixed Object:	0	0.0%	Dark(Unknown Lighting):	0	0.0%
Unspecified:	0	0.0%	Unspecified:	0	0.0%

<b>Contributing Factor</b>	<b>#VEH</b>	<b>%</b>	<b>Pedestrian Actions</b>	<b>#ACC</b>	<b>%</b>
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:	9	25.7%	In Unmarked Crosswalk:	0	0.0%
Vehicle:	0	0.0%	Not in Crosswalk:	1	50.0%
Roadway:	0	0.0%	From Between Parked Cars:	0	0.0%
Unspecified:	26	74.3%	Unspecified:	1	50.0%

13 Records are not approved as of 1/14/2014 11:33:30 AM

DC Department of Transportation - Traffic Accident Reporting and Analysis System

## Accident Summary Report (R-8)

**Corridor:** PENNSYLVANIA AVE,NW,SE From ALABAMA AVE,SE TO FORTIETH ST,SE

**Time Period Covered:** From 08/27/2011 To 08/27/2012

**Prepared By:** Rahul Jain

**Prepared Date:** 1/14/2014

		<b>Collision Type</b>	<b>#ACC</b>	<b>%</b>	<b>Collision Type</b>	<b>#ACC</b>	<b>%</b>
Total Number of Accident:	17	Right Angle:	2	11.8%	Fixed Object:	2	11.8%
Total Number of Fatalities:	0	Left Turn:	1	5.9%	Ran Off Road:	0	0.0%
Total Number of Injuries:	12	Right Turn:	0	0.0%	Ped. Involved:	1	5.9%
Total Number of Disabling Injuries:	1	Rear End:	5	29.4%	Backing:	1	5.9%
Total Number of NonDisabling Injuries:	2	Side Swiped:	3	17.6%	Non Collision:	0	0.0%
Total Number of Pedestrians Involved:	1	Head On:	1	5.9%	Under/Over Ride:	0	0.0%
Total Number of Bicycles Involved:	0	Parked:	0	0.0%	Unspecified:	1	5.9%
Total Number of Motorcycles Involved:	0						

<b>Time of Day</b>	<b>#ACC</b>	<b>%</b>
07:30 ~ 09:30:	4	23.5%
09:30 ~ 11:30:	3	17.6%
11:30 ~ 13:30:	0	0.0%
13:30 ~ 16:00:	2	11.8%
16:00 ~18:30:	1	5.9%
18:30 ~ 07:30:	7	41.2%
Unspecified:	0	0.0%

<b>Day o fweek</b>	<b>#ACC</b>	<b>%</b>
Sunday:	3	17.6%
Monday:	4	23.5%
Tuesday:	1	5.9%
Wednesday:	3	17.6%
Thursday:	1	5.9%
Friday:	2	11.8%
Saturday:	3	17.6%

<b>Weather Condition</b>	<b>#ACC</b>	<b>%</b>
Clear:	14	82.4%
Rain:	1	5.9%
Snow:	0	0.0%
Sleet/Hail:	0	0.0%
Fog/Mist:	0	0.0%
Crosswind/Blowing Sand:	0	0.0%
Unspecified:	2	11.8%

<b>Surface Condition</b>	<b>#ACC</b>	<b>%</b>
Dry:	14	82.4%
Wet:	1	5.9%
Snow/Ice:	0	0.0%
Slush:	0	0.0%
Water/Sand:	0	0.0%
Repairing:	1	5.9%
Unspecified:	1	5.9%

<b>Type of Vehicle</b>	<b>#VEH</b>	<b>%</b>
Passenger Car:	33	89.2%
Bus:	0	0.0%
Truck:	3	8.1%
Taxi:	0	0.0%
Minivan:	0	0.0%
Police/Emergency Vehicle:	1	2.7%
Motorcycle/Moped:	0	0.0%
Bicycle:	0	0.0%
Fixed Object:	0	0.0%
Unspecified:	0	0.0%

<b>Accident Severity Type</b>	<b>#ACC</b>	<b>%</b>
Fatal Collision:	0	0.0%
Injury Collision:	9	52.9%
PDO Collision:	8	47.1%

<b>Light Condition</b>	<b>#ACC</b>	<b>%</b>
Daylight:	11	64.7%
Dawn/Dusk:	0	0.0%
Dark(Lighted):	5	29.4%
Dark(Not Lighted):	0	0.0%
Dark(Unknown Lighting):	0	0.0%
Unspecified:	1	5.9%

<b>Contributing Factor</b>	<b>#VEH</b>	<b>%</b>
Driver: Speed:	1	2.7%
Driver: Alcohol/Drug:	2	5.4%
Driver: Electronic Device:	0	0.0%
Driver: Others:	7	18.9%
Vehicle:	0	0.0%
Roadway:	0	0.0%
Unspecified:	27	73.0%

<b>Pedestrian Actions</b>	<b>#ACC</b>	<b>%</b>
In Crosswalk with Signal:	0	0.0%
In Crosswalk against Signal:	0	0.0%
In Crosswalk no Signal:	0	0.0%
In Unmarked Crosswalk:	0	0.0%
Not in Crosswalk:	1	100.0%
From Between Parked Cars:	0	0.0%
Unspecified:	0	0.0%

12 Records are not approved as of 1/14/2014 11:34:29 AM

DC Department of Transportation - Traffic Accident Reporting and Analysis System

## Accident Summary Report (R-8)

**Corridor:** PENNSYLVANIA AVE,NW,SE From ALABAMA AVE,SE TO FORTIETH ST,SE

**Time Period Covered:** From 08/27/2012 To 08/27/2013

**Prepared By:** Rahul Jain

**Prepared Date:** 1/14/2014

Total Number of Accident:	22	<b>Collision Type</b>	<b>#ACC</b>	<b>%</b>	<b>Collision Type</b>	<b>#ACC</b>	<b>%</b>
Total Number of Fatalities:	0	Right Angle:	0	0.0%	Fixed Object:	1	4.5%
Total Number of Injuries:	3	Left Turn:	1	4.5%	Ran Off Road:	1	4.5%
Total Number of Disabling Injuries:	1	Right Turn:	0	0.0%	Ped. Involved:	3	13.6%
Total Number of NonDisabling Injuries:	0	Rear End:	6	27.3%	Backing:	0	0.0%
Total Number of Pedestrians Involved:	3	Side Swiped:	8	36.4%	Non Collision:	0	0.0%
Total Number of Bicycles Involved:	0	Head On:	1	4.5%	Under/Over Ride:	0	0.0%
Total Number of Motorcycles Involved:	0	Parked:	1	4.5%	Unspecified:	0	0.0%
<b>Time of Day</b>				<b>Day of week</b>			
	<b>#ACC</b>	<b>%</b>			<b>#ACC</b>	<b>%</b>	
07:30 ~ 09:30:	1	4.5%		Sunday:	0	0.0%	
09:30 ~ 11:30:	1	4.5%		Monday:	5	22.7%	
11:30 ~ 13:30:	2	9.1%		Tuesday:	2	9.1%	
13:30 ~ 16:00:	5	22.7%		Wednesday:	4	18.2%	
16:00 ~ 18:30:	1	4.5%		Thursday:	1	4.5%	
18:30 ~ 07:30:	12	54.5%		Friday:	6	27.3%	
Unspecified:	0	0.0%		Saturday:	4	18.2%	
<b>Weather Condition</b>				<b>Surface Condition</b>			
	<b>#ACC</b>	<b>%</b>			<b>#ACC</b>	<b>%</b>	
Clear:	19	86.4%		Dry:	19	86.4%	
Rain:	1	4.5%		Wet:	2	9.1%	
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:	2	9.1%		Unspecified:	1	4.5%	
<b>Type of Vehicle</b>				<b>Accident Severity Type</b>			
	<b>#VEH</b>	<b>%</b>			<b>#ACC</b>	<b>%</b>	
Passenger Car:	30	76.9%		Fatal Collision:	0	0.0%	
Bus:	2	5.1%		Injury Collision:	3	13.6%	
Truck:	2	5.1%		PDO Collision:	19	86.4%	
Taxi:	1	2.6%		<b>Light Condition</b>			
Minivan:	0	0.0%			<b>#ACC</b>	<b>%</b>	
Police/Emergency Vehicle:	0	0.0%		Daylight:	14	63.6%	
Motorcycle/Moped:	0	0.0%		Dawn/Dusk:	0	0.0%	
Bicycle:	0	0.0%		Dark(Lighted):	7	31.8%	
Fixed Object:	0	0.0%		Dark(Not Lighted):	0	0.0%	
Unspecified:	4	10.3%		Dark(Unknown Lighting):	0	0.0%	
				Unspecified:	1	4.5%	
<b>Contributing Factor</b>				<b>Pedestrian Actions</b>			
	<b>#VEH</b>	<b>%</b>			<b>#ACC</b>	<b>%</b>	
Driver: Speed:	0	0.0%		In Crosswalk with Signal:	1	33.3%	
Driver: Alcohol/Drug:	1	2.6%		In Crosswalk against Signal:	1	33.3%	
Driver: Electronic Device:	0	0.0%		In Crosswalk no Signal:	1	33.3%	
Driver: Others:	6	15.4%		In Unmarked Crosswalk:	0	0.0%	
Vehicle:	0	0.0%		Not in Crosswalk:	0	0.0%	
Roadway:	1	2.6%		From Between Parked Cars:	0	0.0%	
Unspecified:	31	79.5%		Unspecified:	0	0.0%	

13 Records are not approved as of 1/14/2014 11:39:17 AM