



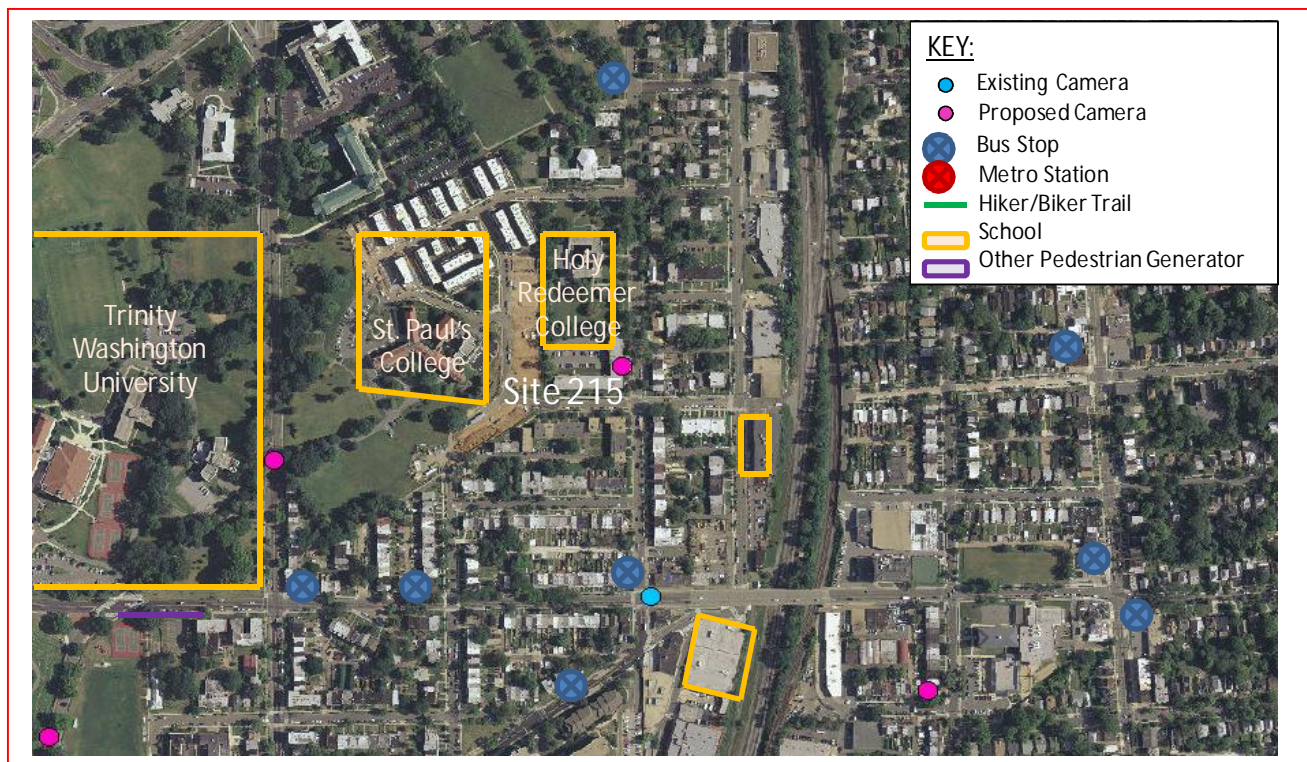
District Department of Transportation

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

### 3000-3400 Block 7th Street NE

### Study Area and Location

District	PSA	Ward	ANC	Phase	Description
5	502	5	5C	Proposed	3000-3400 Blocks 7 <sup>th</sup> Street Northeast



This *proposed* speed camera will be located in Ward 5 between blocks 3000 and 3400 of 7<sup>th</sup> Street Northeast. 7<sup>th</sup> Street Northeast runs between Michigan Avenue Northeast to the north and Edgewood Street Northeast to the south. The posted speed limit is 25 MPH.

W5 - 350





District Department of Transportation

3000-3400 Block 7th Street NE

## Field Assessment Summary

7<sup>th</sup> Street is assumed to run in the north-south direction, and is classified as a collector road. 7<sup>th</sup> Street has one travel lane in each direction with no centerline pavement markings. This site has the following characteristics:

- This is a residential area with houses. There is road work in the area.
- There are five schools in the area: Trinity Washington University, St. Paul's College, Holy Redeemer College, Imagine Hope Community Charter School, and High Road Upper School of Washington, DC.
- There is sidewalk and on-street parking on both sides of the street.
- The pavement is in good condition and there is curb and gutter with drainage inlets.
- There are crosswalks at Hamlin Street, Jackson Street, and Kearny Street and stop signs at Jackson Street.
- There is a bus stop northbound south of Jackson Street. There are bus stops southbound north of Kearny Street, north of Jackson Street, and north of Hamlin Street.



Looking Northbound

W5 - 351



District Department of Transportation

3000-3400 Block 7th Street NE



Looking Southbound

## Speed Data Analysis

	SB	NB
Posted Speed Limit (MPH)	25	25
Mean Speed (MPH)	12	14
85th Percentile Speed (MPH)	17	19
10 MPH Pace Speed	8-17	10-19
Sample Size	904	1,052
ADT	1,956	

In the southbound direction, the mean speed is lower than the posted speed limit by 13 MPH and the 85<sup>th</sup> percentile speed is lower than the posted speed by 8 MPH 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 three crashes at this location. The types of collision at this location were Side Swiped, Parked Vehicle, and Backing. Each of these collision types had one crash in the three-year period.

W5 - 352



District Department of Transportation

3000-3400 Block 7th Street NE

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

## Safety Nexus

This site presents the following safety considerations which may support the 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 – 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 houses.
  - b. There is road work in the area.
  - c. There are five schools in the area: Trinity Washington University, St. Paul’s College, Holy Redeemer College, Imagine Hope Community Charter School, and High Road Upper School of Washington, DC.
  - d. There are multiple bus stops in the area which generate pedestrian activity.
  - e. There is on-street parking on both sides of the street.

Although the speed data analysis showed the mean and 85th percentile speeds to be lower than the posted speed limit, and the crash data analysis showed a low number of crashes, there is still a safety concern at this location. The residential area coupled with the proximity of the site to several schools and colleges provides a location with multiple pedestrian generators and multiple opportunities for vehicle-pedestrian conflicts. Due to the specific site characteristics, the proximity to schools, and the pedestrian generators, there is a nexus between traffic safety and the speed camera at this location.

# SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD  
MOUNT AIRY, MD 21771

[www.sammateng.com](http://www.sammateng.com)

## 3000-3400 block of 7th St NE 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
11/13/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
04:00	1	1	1	0	0	0	0	0	0	0	0	0	0	0	3
05:00	6	5	1	0	0	0	0	0	0	0	0	0	0	0	12
06:00	13	10	5	0	0	0	0	0	0	0	0	0	0	0	28
07:00	26	36	8	0	0	0	0	0	0	0	0	0	0	0	70
08:00	32	46	14	0	0	0	0	0	0	0	0	0	0	0	92
09:00	26	37	12	0	0	0	0	0	0	0	0	0	0	0	75
10:00	16	16	7	0	0	0	0	0	0	0	0	0	0	0	39
11:00	17	25	7	0	0	0	0	0	0	0	0	0	0	0	49
12 PM	22	21	3	0	0	0	0	0	0	0	0	0	0	0	46
13:00	14	31	3	0	0	0	0	0	0	0	0	0	0	0	48
14:00	28	26	7	0	0	0	0	0	0	0	0	0	0	0	61
15:00	38	33	10	1	0	0	0	0	0	0	0	0	0	0	82
16:00	31	48	6	2	0	0	0	0	0	0	0	0	0	0	87
17:00	35	66	17	1	0	0	0	0	0	0	0	0	0	0	119
18:00	29	42	4	0	0	0	0	0	0	0	0	0	0	0	75
19:00	13	24	3	0	0	0	0	0	0	0	0	0	0	0	40
20:00	13	19	1	1	0	0	0	0	0	0	0	0	0	0	34
21:00	12	21	6	1	0	0	0	0	0	0	0	0	0	0	40
22:00	7	12	3	0	0	0	0	0	0	0	0	0	0	0	22
23:00	2	8	2	0	0	0	0	0	0	0	0	0	0	0	12
Total	382	528	120	6	0	0	0	0	0	0	0	0	0	0	1036

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## 3000-3400 block of 7th St NE Speed

NB

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/14/13	4	3	1	0	0	0	0	0	0	0	0	0	0	0	8
01:00	1	6	1	0	0	0	0	0	0	0	0	0	0	0	8
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	5	9	2	0	0	0	0	0	0	0	0	0	0	0	16
Grand Total	387	537	122	6	0	0	0	0	0	0	0	0	0	0	1052

15th Percentile : 6 MPH  
 50th Percentile : 13 MPH  
 85th Percentile : 19 MPH  
 95th Percentile : 21 MPH

Stats  
 Mean Speed(Average) : 14 MPH  
 10 MPH Pace Speed : 10-19 MPH  
 Number in Pace : 613  
 Percent in Pace : 58.3%  
 Number of Vehicles > 25 MPH : 13  
 Percent of Vehicles > 25 MPH : 1.2%

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SB

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
11/13/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	4	1	0	0	0	0	0	0	0	0	0	0	0	0	5
05:00	5	8	1	0	0	0	0	0	0	0	0	0	0	0	14
06:00	15	13	1	0	0	0	0	0	0	0	0	0	0	0	29
07:00	36	32	4	0	0	0	0	0	0	0	0	0	0	0	72
08:00	25	45	5	1	0	0	0	0	0	0	0	0	0	0	76
09:00	32	24	0	0	0	0	0	0	0	0	0	0	0	0	56
10:00	20	31	2	0	0	0	0	0	0	0	0	0	0	0	53
11:00	30	19	1	0	0	0	0	0	0	0	0	0	0	0	50
12 PM	29	24	0	0	0	0	0	0	0	0	0	0	0	0	53
13:00	23	13	0	0	0	0	0	0	0	0	0	0	0	0	36
14:00	24	29	0	0	0	0	0	0	0	0	0	0	0	0	53
15:00	39	28	3	0	0	0	0	0	0	0	0	0	0	0	70
16:00	30	30	1	0	0	0	0	0	0	0	0	0	0	0	61
17:00	41	26	1	0	0	0	0	0	0	0	0	0	0	0	68
18:00	27	23	2	0	0	0	0	0	0	0	0	0	0	0	52
19:00	31	18	2	0	0	0	0	0	0	0	0	0	0	0	51
20:00	15	17	0	0	0	0	0	0	0	0	0	0	0	0	32
21:00	15	12	0	0	0	0	0	0	0	0	0	0	0	0	27
22:00	13	10	0	0	0	0	0	0	0	0	0	0	0	0	23
23:00	7	5	0	0	0	0	0	0	0	0	0	0	0	0	12
Total	461	409	23	1	0	0	0	0	0	0	0	0	0	0	894

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SB

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/14/13	1	5	0	0	0	0	0	0	0	0	0	0	0	0	6
01:00	2	2	0	0	0	0	0	0	0	0	0	0	0	0	4
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	3	7	0	0	0	0	0	0	0	0	0	0	0	0	10
Grand Total	464	416	23	1	0	0	0	0	0	0	0	0	0	0	904

15th Percentile : 5 MPH  
 50th Percentile : 11 MPH  
 85th Percentile : 17 MPH  
 95th Percentile : 19 MPH

Stats  
 Mean Speed(Average) : 12 MPH  
 10 MPH Pace Speed : 8-17 MPH  
 Number in Pace : 539  
 Percent in Pace : 59.6%  
 Number of Vehicles > 25 MPH : 2  
 Percent of Vehicles > 25 MPH : 0.2%



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MOUNT AIRY, MD 21771

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## 3000-3400 block of 7th St NE Volume

Start Time	13-Nov-13		NB		SB		Combined		14-Nov-Thu	NB		SB		Combined	
	Wed		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	*		*	11	*	20	*	31		1	*	1	*	2	*
12:15	*		*	13	*	11	*	24		3	*	0	*	3	*
12:30	*		*	10	*	11	*	21		4	*	3	*	7	*
12:45	*		*	12	*	11	*	23		0	*	2	*	2	*
01:00	*		*	12	*	13	*	25		1	*	2	*	3	*
01:15	*		*	7	*	14	*	21		2	*	1	*	3	*
01:30	*		*	9	*	4	*	13		2	*	0	*	2	*
01:45	*		*	20	*	5	*	25		3	*	1	*	4	*
02:00	0		0	12	0	12	0	24		*	*	*	*	*	*
02:15	0		0	11	0	9	0	20		*	*	*	*	*	*
02:30	0		0	15	0	16	0	31		*	*	*	*	*	*
02:45	0		0	23	1	16	1	39		*	*	*	*	*	*
03:00	0		0	15	0	13	0	28		*	*	*	*	*	*
03:15	2		2	29	0	18	2	47		*	*	*	*	*	*
03:30	0		0	20	0	25	0	45		*	*	*	*	*	*
03:45	0		0	18	0	14	0	32		*	*	*	*	*	*
04:00	2		2	16	1	15	3	31		*	*	*	*	*	*
04:15	1		1	24	1	15	2	39		*	*	*	*	*	*
04:30	0		0	18	2	16	2	34		*	*	*	*	*	*
04:45	0		0	29	1	15	1	44		*	*	*	*	*	*
05:00	2		2	19	2	15	4	34		*	*	*	*	*	*
05:15	2		2	25	1	23	3	48		*	*	*	*	*	*
05:30	2		2	39	3	15	5	54		*	*	*	*	*	*
05:45	6		6	36	8	15	14	51		*	*	*	*	*	*
06:00	9		9	24	3	15	12	39		*	*	*	*	*	*
06:15	5		5	22	8	14	13	36		*	*	*	*	*	*
06:30	5		5	14	7	14	12	28		*	*	*	*	*	*
06:45	9		9	15	11	9	20	24		*	*	*	*	*	*
07:00	12		12	14	12	12	24	26		*	*	*	*	*	*
07:15	14		14	8	15	12	29	20		*	*	*	*	*	*
07:30	20		20	9	23	9	43	18		*	*	*	*	*	*
07:45	24		24	9	22	18	46	27		*	*	*	*	*	*
08:00	30		30	10	19	8	49	18		*	*	*	*	*	*
08:15	20		20	6	19	9	39	15		*	*	*	*	*	*
08:30	25		25	11	21	9	46	20		*	*	*	*	*	*
08:45	17		17	7	17	6	34	13		*	*	*	*	*	*
09:00	23		23	12	14	5	37	17		*	*	*	*	*	*
09:15	17		17	12	21	9	38	21		*	*	*	*	*	*
09:30	21		21	7	8	6	29	13		*	*	*	*	*	*
09:45	14		14	9	13	7	27	16		*	*	*	*	*	*
10:00	17		17	2	16	3	33	5		*	*	*	*	*	*
10:15	9		9	8	8	7	17	15		*	*	*	*	*	*
10:30	6		6	3	19	5	25	8		*	*	*	*	*	*
10:45	7		7	9	10	8	17	17		*	*	*	*	*	*
11:00	8		8	4	13	7	21	11		*	*	*	*	*	*
11:15	13		13	6	13	3	26	9		*	*	*	*	*	*
11:30	11		11	1	6	0	17	1		*	*	*	*	*	*
11:45	17		17	1	18	2	35	3		*	*	*	*	*	*
Total			370	666	356	538	726	1204		16	0	10	0	26	0
Day Total			1036		894		1930			16	0.0%	10	0.0%	26	
% Total			19.2%	34.5%	18.4%	27.9%			61.5%						
Peak			07:45	05:15	07:30	02:45	07:45	05:15		12:00		00:30		00:15	
Vol.			99	124	83	72	180	192		8		8		15	
P.H.F.			0.825	0.795	0.902	0.720	0.918	0.889		0.500		0.667		0.536	

ADT                      ADT 1,956                      AADT 1,956

**Accident Summary Report (R-8)****Corridor:** 7TH ST,NE,SE From LAWRENCE ST,NE TO HAMLIN ST,NE**Time Period Covered:** From 01/01/2010 To 12/31/2012**Prepared By:** Rahul Jain**Prepared Date:** 9/16/2013

		<b>Collision Type</b>	<b>#ACC</b>	<b>%</b>	<b>Collision Type</b>	<b>#ACC</b>	<b>%</b>
Total Number of Accident:	3	Right Angle:	0	0.0%	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:	0	Right Turn:	0	0.0%	Ped. Involved:	0	0.0%
Total Number of Disabling Injuries:	0	Rear End:	0	0.0%	Backing:	1	33.3%
Total Number of NonDisabling Injuries:	0	Side Swiped:	1	33.3%	Non Collision:	0	0.0%
Total Number of Pedestrians Involved:	0	Head On:	0	0.0%	Under/Over Ride:	0	0.0%
Total Number of Bicycles Involved:	0	Parked:	1	33.3%	Unspecified:	0	0.0%
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:	0	0.0%	Sunday:	1	33.3%
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:	0	0.0%	Wednesday:	1	33.3%
16:00 ~18:30:	1	33.3%	Thursday:	0	0.0%
18:30 ~ 07:30:	1	33.3%	Friday:	0	0.0%
Unspecified:	0	0.0%	Saturday:	0	0.0%

<b>Weather Condition</b>	<b>#ACC</b>	<b>%</b>	<b>Surface Condition</b>	<b>#ACC</b>	<b>%</b>
Clear:	2	66.7%	Dry:	2	66.7%
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:	1	33.3%	Unspecified:	1	33.3%

<b>Type of Vehicle</b>	<b>#VEH</b>	<b>%</b>	<b>Accident Severity Type</b>	<b>#ACC</b>	<b>%</b>
Passenger Car:	4	66.7%	Fatal Collision:	0	0.0%
Bus:	0	0.0%	Injury Collision:	0	0.0%
Truck:	0	0.0%	PDO Collision:	3	100.0%
Taxi:	0	0.0%			
Minivan:	0	0.0%	<b>Light Condition</b>	<b>#ACC</b>	<b>%</b>
Police/Emergency Vehicle:	1	16.7%	Daylight:	2	66.7%
Motorcycle/Moped:	0	0.0%	Dawn/Dusk:	0	0.0%
Bicycle:	0	0.0%	Dark(Lighted):	0	0.0%
Fixed Object:	0	0.0%	Dark(Not Lighted):	0	0.0%
Unspecified:	1	16.7%	Dark(Unknown Lighting):	0	0.0%
			Unspecified:	1	33.3%

<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:	0	0.0%	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:	6	100.0%	Unspecified:	0	0.0%

3 Records are not approved as of 9/16/2013 8:46:58 AM