



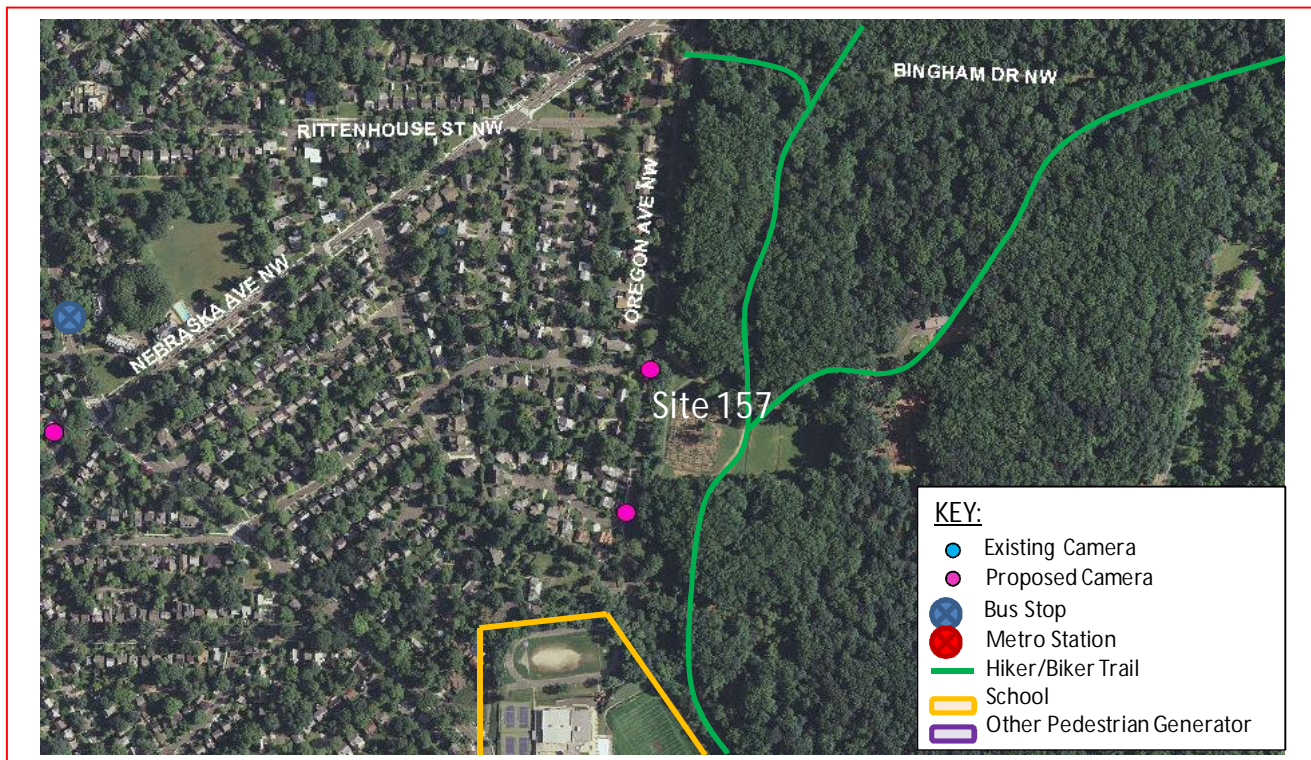
District Department of Transportation

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

### Oregon Avenue between Military Road and Northampton Street

#### Study Area and Location

District	PSA	Ward	ANC	Phase	Description
2	201	3	3G	Proposed	Oregon Avenue between Military Road and Northampton Street



This *proposed* speed camera will be located in Ward 3 on Oregon Avenue between Military Road and Northampton Street. Oregon Avenue runs from Western Avenue Northwest in the north to Military Road Northwest in the south. The posted speed limit is 25 MPH.

W3 - 250





## Oregon Avenue between Military Road and Northampton Street

### Field Assessment Summary

Oregon Avenue is assumed to run in the North-South direction and is classified as a collector. Oregon Avenue has one travel lane in each direction. This site has the following characteristics:

- This site is located in a residential area with houses and driveways on the west side of the street.
- There is one school in the area: St. John's College High School.
- The Western Ridge Trail runs parallel to Oregon Avenue in this area.
- The existing pavement is in fair condition.



Looking South





District Department of Transportation

## Oregon Avenue between Military Road and Northampton Street



Looking North

### Speed Data Analysis

Direction	Northbound	Southbound
Posted Speed Limit (MPH)	25	25
Mean Speed (MPH)	31	27
85th Percentile Speed (MPH)	36	32
10 MPH Pace Speed (MPH)	28-37	24-33
Sample Size	2,175	2,253
ADT	4,428	

The mean speed is higher than the posted speed limit by 6 MPH in the northbound direction and 2 MPH in the southbound direction. The 85<sup>th</sup> percentile speed is higher than the posted speed by 11 MPH in the northbound direction and 7 MPH in the southbound 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 two crashes at this location. A breakdown of number of crashes by collision type can be found in the chart below. The crashes were with a parked car and a fixed object.

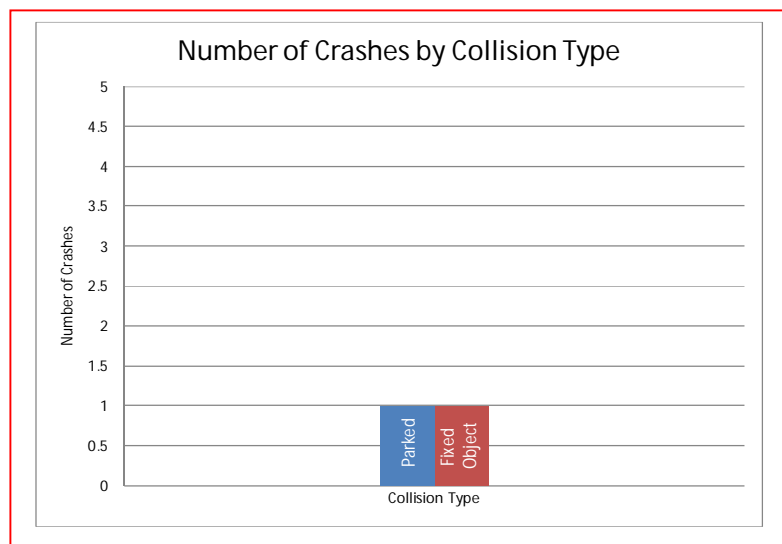
W3 - 252



District Department of Transportation

## Oregon Avenue between Military Road and Northampton Street

Severity			Weather			Surface condition			Light Condition		
Total	2										
Fatal	0	0.0%	Clear	1	50.0%	Dry	2	100.0%	Day	0	0.0%
Injury	1	50.0%	Rain	0	0.0%	Wet	0	0.0%	Night	1	50.0%
Taxi	0	0.0%	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 much higher than the posted speed limit in both directions of travel 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 houses and driveways along the west side of the street.
  - b. There is one school in the area: St. John's College High School.
  - c. The Western Ridge Trail runs parallel to Oregon Avenue in this area which generates pedestrian activity.

W3 - 253



## Oregon Avenue between Military Road and Northampton Street

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.

# SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD  
MOUNT AIRY, MD 21771

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

Oregon Avenue NW between Military Road and Northampton Street Speed

NB

Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	Total
	20	25	30	35	40	45	50	55	60	65	70	75	999		
11/06/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	3	1	0	2	1	0	1	0	0	0	0	0	0	0	8
05:00	0	0	0	1	1	3	0	0	0	0	0	0	0	0	5
06:00	2	1	1	9	35	17	4	0	0	0	0	0	0	0	69
07:00	7	1	8	22	49	34	6	1	0	0	0	0	0	0	128
08:00	22	1	3	18	41	20	7	0	0	0	0	0	0	0	112
09:00	2	0	4	17	24	16	6	3	0	0	0	0	0	0	72
10:00	7	0	5	23	27	16	3	0	0	0	0	0	0	0	81
11:00	3	1	11	23	20	13	2	0	0	0	0	0	0	0	73
12 PM	3	1	5	19	26	13	2	0	0	0	0	0	0	0	69
13:00	7	1	6	13	33	20	6	1	0	0	0	0	0	0	87
14:00	3	1	2	30	92	46	10	1	1	0	0	0	0	0	186
15:00	3	0	2	30	91	42	13	0	0	0	0	0	0	0	181
16:00	6	2	19	33	109	43	4	0	0	0	0	0	0	0	216
17:00	11	4	8	64	115	45	2	1	1	0	0	0	0	0	251
18:00	5	0	11	93	101	40	5	0	0	0	0	0	0	0	255
19:00	4	2	6	43	63	19	4	1	0	0	0	0	0	0	142
20:00	2	0	6	27	51	12	0	0	0	0	0	0	0	0	98
21:00	0	0	5	22	22	3	2	1	0	0	0	0	0	0	55
22:00	2	0	2	13	25	2	3	0	0	0	0	0	0	0	47
23:00	0	0	1	8	10	5	0	0	0	0	0	0	0	0	24
Total	92	16	105	510	936	409	80	9	2	0	0	0	0	0	2159

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Oregon Avenue NW between Military Road and Northampton Street 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
11/07/13	0	0	0	3	1	0	0	0	0	0	0	0	0	0	4
01:00	0	0	1	2	2	1	0	0	0	0	0	0	0	0	6
02:00	0	0	0	1	1	0	1	0	0	0	0	0	0	0	3
03:00	1	0	0	0	2	0	0	0	0	0	0	0	0	0	3
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	1	0	1	6	6	1	1	0	0	0	0	0	0	0	16
Grand Total	93	16	106	516	942	410	81	9	2	0	0	0	0	0	2175

15th Percentile : 24 MPH  
50th Percentile : 31 MPH  
85th Percentile : 36 MPH  
95th Percentile : 40 MPH

Stats  
Mean Speed(Average) : 31 MPH  
10 MPH Pace Speed : 28-37 MPH  
Number in Pace : 1364  
Percent in Pace : 62.7%  
Number of Vehicles > 25 MPH : 1841  
Percent of Vehicles > 25 MPH : 84.6%

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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
11/06/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	2	0	1	4	0	2	0	0	0	0	0	0	0	0	9
05:00	0	0	0	7	5	1	0	0	0	0	0	0	0	0	13
06:00	4	0	9	57	38	7	2	0	0	0	0	0	0	0	117
07:00	5	1	28	210	148	12	0	0	0	0	0	0	0	0	404
08:00	12	2	36	190	121	6	0	0	0	0	0	0	0	0	367
09:00	5	4	31	115	47	7	1	0	0	0	0	0	0	0	210
10:00	4	3	21	45	33	4	0	0	0	0	0	0	0	0	110
11:00	3	1	17	43	13	1	0	1	0	0	0	0	0	0	79
12 PM	11	3	17	22	14	3	0	0	0	0	0	0	0	0	70
13:00	11	7	23	42	11	2	1	0	0	0	0	0	0	0	97
14:00	6	8	20	61	24	2	0	0	0	0	0	0	0	0	121
15:00	8	4	29	50	25	0	2	0	0	0	0	0	0	0	118
16:00	7	7	30	56	12	0	1	0	0	0	0	0	0	0	113
17:00	13	1	30	69	25	2	0	0	0	0	0	0	0	0	140
18:00	5	7	28	67	19	1	0	0	0	0	0	0	0	0	127
19:00	5	1	12	30	16	0	0	0	0	0	0	0	0	0	64
20:00	1	0	9	16	9	2	0	0	0	0	0	0	0	0	37
21:00	3	0	4	8	4	1	1	1	0	0	0	0	0	0	22
22:00	0	0	4	2	3	1	0	0	0	0	0	0	0	0	10
23:00	0	1	0	7	2	0	0	0	0	0	0	0	0	0	10
Total	105	50	349	1101	569	54	8	2	0	0	0	0	0	0	2238



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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
11/07/13	0	0	3	0	1	1	0	0	0	0	0	0	0	0	5
01:00	0	1	0	2	1	0	0	0	0	0	0	0	0	0	4
02:00	0	0	1	1	1	0	0	0	0	0	0	0	0	0	3
03:00	1	0	0	2	0	0	0	0	0	0	0	0	0	0	3
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	1	1	4	5	3	1	0	0	0	0	0	0	0	0	15
Grand Total	106	51	353	1106	572	55	8	2	0	0	0	0	0	0	2253

15th Percentile : 21 MPH  
50th Percentile : 27 MPH  
85th Percentile : 32 MPH  
95th Percentile : 35 MPH

Stats  
Mean Speed(Average) : 27 MPH  
10 MPH Pace Speed : 24-33 MPH  
Number in Pace : 1516  
Percent in Pace : 67.3%  
Number of Vehicles > 25 MPH : 1576  
Percent of Vehicles > 25 MPH : 69.9%

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1515 RISING RIDGE ROAD  
MOUNT AIRY, MD 21771

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Oregon Avenue NW between Military Road and Northampton Street Volume

Start Time	06-Nov-13 Wed	NB		SB		Combined		07-Nov-Thu	NB		SB		Combined	
		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		*	12	*	25	*	37		2	*	1	*	3	*
12:15		*	20	*	13	*	33		0	*	2	*	2	*
12:30		*	16	*	19	*	35		0	*	1	*	1	*
12:45		*	21	*	13	*	34		2	*	1	*	3	*
01:00		*	16	*	10	*	26		4	*	0	*	4	*
01:15		*	22	*	22	*	44		1	*	1	*	2	*
01:30		*	22	*	35	*	57		0	*	1	*	1	*
01:45		*	27	*	30	*	57		1	*	2	*	3	*
02:00		*	54	*	32	*	86		1	*	1	*	2	*
02:15		*	61	*	36	*	97		1	*	1	*	2	*
02:30		*	39	*	34	*	73		0	*	1	*	1	*
02:45		*	32	*	19	*	51		1	*	0	*	1	*
03:00		*	35	*	24	*	59		1	*	0	*	1	*
03:15		*	34	*	33	*	67		2	*	2	*	4	*
03:30		*	62	*	33	*	95		0	*	0	*	0	*
03:45		*	50	*	28	*	78		0	*	1	*	1	*
04:00		5	58	2	28	7	86		0	*	0	*	0	*
04:15		1	50	1	30	2	80		*	*	*	*	*	*
04:30		0	46	3	29	3	75		*	*	*	*	*	*
04:45		2	62	3	26	5	88		*	*	*	*	*	*
05:00		1	55	3	35	4	90		*	*	*	*	*	*
05:15		1	63	1	36	2	99		*	*	*	*	*	*
05:30		1	66	4	41	5	107		*	*	*	*	*	*
05:45		2	67	5	28	7	95		*	*	*	*	*	*
06:00		7	79	20	33	27	112		*	*	*	*	*	*
06:15		18	50	26	38	44	88		*	*	*	*	*	*
06:30		24	81	29	31	53	112		*	*	*	*	*	*
06:45		20	45	42	25	62	70		*	*	*	*	*	*
07:00		26	36	58	21	84	57		*	*	*	*	*	*
07:15		28	35	94	22	122	57		*	*	*	*	*	*
07:30		45	43	126	11	171	54		*	*	*	*	*	*
07:45		29	28	126	10	155	38		*	*	*	*	*	*
08:00		28	32	89	10	117	42		*	*	*	*	*	*
08:15		20	27	100	11	120	38		*	*	*	*	*	*
08:30		35	20	95	6	130	26		*	*	*	*	*	*
08:45		29	19	83	10	112	29		*	*	*	*	*	*
09:00		15	18	71	5	86	23		*	*	*	*	*	*
09:15		22	18	56	4	78	22		*	*	*	*	*	*
09:30		21	13	52	8	73	21		*	*	*	*	*	*
09:45		14	6	31	5	45	11		*	*	*	*	*	*
10:00		20	15	29	2	49	17		*	*	*	*	*	*
10:15		15	14	25	3	40	17		*	*	*	*	*	*
10:30		21	9	23	5	44	14		*	*	*	*	*	*
10:45		25	9	33	0	58	9		*	*	*	*	*	*
11:00		17	6	23	2	40	8		*	*	*	*	*	*
11:15		18	8	11	5	29	13		*	*	*	*	*	*
11:30		20	5	25	1	45	6		*	*	*	*	*	*
11:45		18	5	20	2	38	7		*	*	*	*	*	*
Total		548	1611	1309	929	1857	2540		16	0	15	0	31	0
Day Total		2159		2238		4397			16		15		31	
% Total		12.5%	36.6%	29.8%	21.1%				51.6%	0.0%	48.4%	0.0%		
Peak		07:15	05:45	07:30	05:00	07:15	05:15		00:30		12:00		00:15	
Vol.		130	277	441	140	565	413		7		5		10	
P.H.F.		0.722	0.855	0.875	0.854	0.826	0.922		0.438		0.625		0.625	
ADT		ADT 4,424		AADT 4,424										

DC Department of Transportation - Traffic Accident Reporting and Analysis System

## Accident Summary Report (R-8)

**Corridor:** OREGON AVE,NW From GLOVER RD,NW TO NORTHAMPTON ST,NW

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

**Prepared By:** Rahul Jain

**Prepared Date:** 9/15/2013

Total Number of Accident:	2	<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	50.0%
Total Number of Injuries:	1	Left Turn:	0	0.0%	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:	1	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 Involved:	0	Head On:	0	0.0%	Under/Over Ride:	0	0.0%
Total Number of Motorcycles Involved:	0	Parked:	1	50.0%	Unspecified:	0	0.0%

<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:	0	0.0%
09:30 ~ 11:30:	0	0.0%	Monday:	0	0.0%
11:30 ~ 13:30:	0	0.0%	Tuesday:	0	0.0%
13:30 ~ 16:00:	0	0.0%	Wednesday:	0	0.0%
16:00 ~18:30:	0	0.0%	Thursday:	1	50.0%
18:30 ~ 07:30:	2	100.0%	Friday:	1	50.0%
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:	1	50.0%	Dry:	2	100.0%
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:	1	50.0%	Repairing:	0	0.0%
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:	3	100.0%	Fatal Collision:	0	0.0%
Bus:	0	0.0%	Injury Collision:	1	50.0%
Truck:	0	0.0%	PDO Collision:	1	50.0%
Taxi:	0	0.0%	<b>Light Condition</b>	<b>#ACC</b>	<b>%</b>
Minivan:	0	0.0%	Daylight:	0	0.0%
Police/Emergency Vehicle:	0	0.0%	Dawn/Dusk:	1	50.0%
Motorcycle/Moped:	0	0.0%	Dark(Lighted):	1	50.0%
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:	1	33.3%	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:	2	66.7%	Unspecified:	0	0.0%

1 Records are not approved as of 9/15/2013 9:06:38 PM