

**135<sup>th</sup> St and Ridgeland Ave**  
**<Westbound>**

**In 2009 the City of Palos Heights received approval from the Illinois Department of Transportation (IDOT) to install Red Light Running (RLR) cameras on the westbound approach of the intersection of 135<sup>th</sup> St and Ridgeland Ave. The original RLR Camera System Manufacturer contracted by the City of Palos Heights was Redflex Traffic Systems Inc. of Phoenix, AZ.**

**The IDOT District 1 Bureau of Traffic Operations requires a comprehensive report to be distributed one year after the installation of RLR cameras as well as every three years thereafter detailing the efficacy of each system within its jurisdiction by intersection and approach. Though RedFlex was under obligation to complete these reports, no such reports were submitted to IDOT during the time in which RedFlex was the RLR vendor for the City of Palos Heights. Combining adjudication data received from RedFlex with crash data received from IDOT, this report was completed by SafeSpeed, LLC in order to remain in compliance with IDOT regulations.**

- Date at which the cameras were installed at 135<sup>th</sup> St and Ridgeland Ave: **06/19/2009**
- Date at which the cameras went live at 135<sup>th</sup> St and Ridgeland Ave: **07/01/2009**

RedFlex Traffic Systems Inc. can be reached at:  
23751 N 23<sup>rd</sup> Ave #150, Phoenix, Arizona 85085  
(623) 207-2000

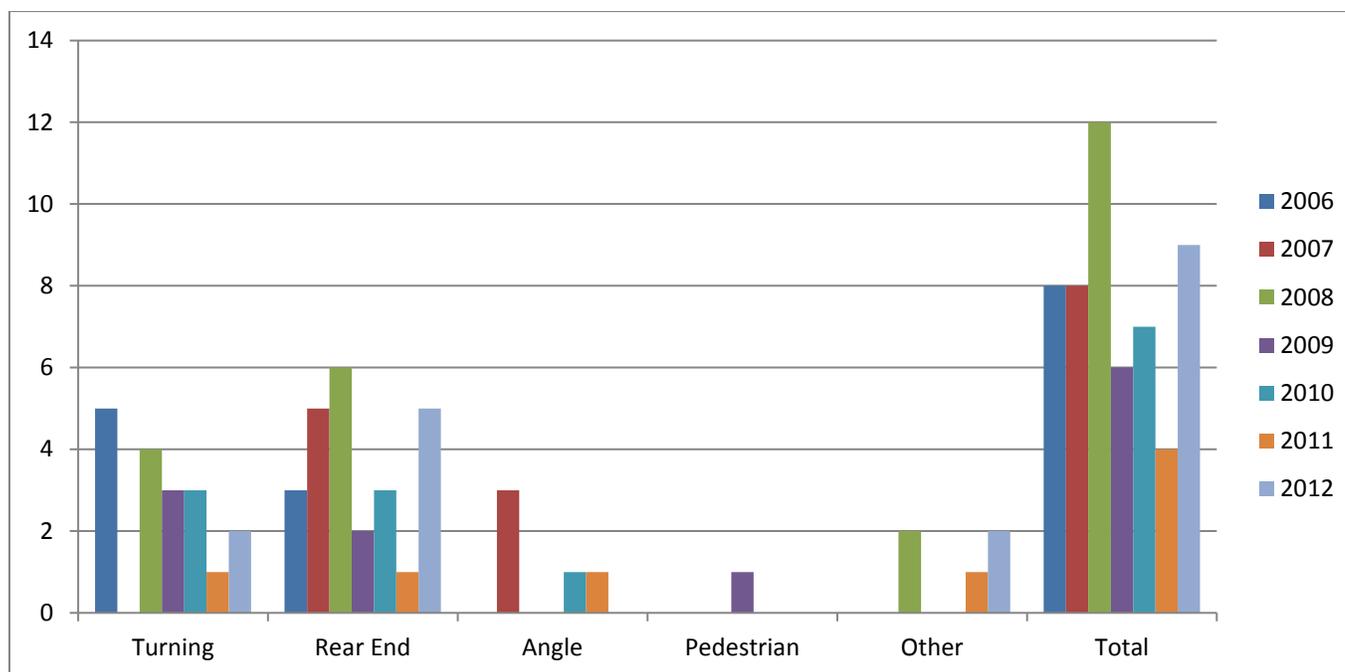
In 2014 the Public Safety Committee of the **City of Palos Heights** voted in favor of a new Red Light Enforcement agreement, authorizing a transfer of execution from RedFlex Inc. to SafeSpeed, LLC of Chicago, Illinois. RedFlex cameras were shut down in May of 2014.

No changes were made to the traffic signal timing or any other settings pertaining to operation of traffic signals at this intersection following the camera installation.

# **RLR Crash Data and Analysis**

The table and chart below show a summary of motor vehicle crashes at the intersection of 135<sup>th</sup> St and Ridgeland Ave over a span of 7 years. The data from 2006 to 2008 show the period prior to the installation of RLR cameras. The data from 2009 show the year in which the cameras were installed. The data from 2010 to 2012 show the period following the installation.

	Turning	Rear End	Angle	Pedestrian	Other	Total
<b>2006</b>	5	3	0	0	0	<b>8</b>
<b>2007</b>	0	5	3	0	0	<b>8</b>
<b>2008</b>	4	6	0	0	2	<b>12</b>
<b>2009</b>	3	2	0	1	0	<b>6</b>
<b>2010</b>	3	3	1	0	0	<b>7</b>
<b>2011</b>	1	1	1	0	1	<b>4</b>
<b>2012</b>	2	5	0	0	2	<b>9</b>



The average number of crashes per year from 2006 to 2009 was 8.5. The average number of crashes per year from 2010 to 2012 was 6.66; a 21.7% decrease in the overall crash rate.

The average number of Turning crashes per year from 2006 to 2009 was 3. The average number of Turning crashes per year from 2010 to 2012 was 2; a 33.3% decrease in the rate of Turning crashes.

The average number of Rear End crashes per year from 2006 to 2009 was 4. The average number of Rear End crashes per year from 2010 to 2012 was 3; a 25% decrease in the rate of Rear End crashes.



**Coordinate Collision Diagram Report**  
1/1/2012 to 12/31/2012

For XCoordinate 2949702.38281955 : YCoordinate 1822780.45094761 | Foot Tolerance : 30 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

Date	Weather	Roadway	Injuries A	Injuries B	Injuries C	Killed	Type of Crash	Light Condition	Mile	XCoordinate	YCoordinate	Vehicle Type	DIRP	Maneuver	Event 1	Loc 1	Event 2	Loc 2	Event 3	Loc 3	Unit
201201032692	Clear	Wet	0	0	0	0	Turning	Daylight	0.00	2949702.62890962	1822780.46134292	Passenger	North	Turning Left	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	1
201201060344												Pickup	West	Straight Ahead	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	2
1/20/2012 11:00 PM	Snow	Snow or Slush	0	0	0	0	Fixed Object	Darkness, Lighted Road	0.00	2949702.51157213	1822780.45638636	SUV	Northeast	Turning Left	Ran Off Roadway	Off Pavement - Right	Traffic Signal	Off Pavement - Right	(UNK)	(UNK)	1
201201047535												Passenger	South	Straight Ahead	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	1
1/24/2012 5:45 PM	Clear	Wet	0	0	0	0	Rear End	Darkness, Lighted Road	0.00	2949702.503502	1822780.45604546	Van/Mini-Van	South	Slow/Stop In Traffic	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	2
201201154218												Passenger	East	Straight Ahead	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	1
5/7/2012 4:21 PM	Rain	Wet	0	0	0	0	Rear End	Daylight	0.00	2949702.37166765	1822780.45047654	Passenger	East	Slow/Stop - Right Turn	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	2
201201156122												SUV	South	Straight Ahead	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	1
6/14/2012 4:45 PM	Clear	Unknown	0	0	1	0	Rear End	Daylight	0.00	2949702.96740679	1822780.47564167	Passenger	South	Slow/Stop In Traffic	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	2





**Coordinate Collision Diagram Report**

1/1/2012 to 12/31/2012

For XCoordinate 2949702.38281955 : YCoordinate 1822780.45094761 | Foot Tolerance : 30 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
9	0	0	0	1	8	0	1	0	0	1

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Fixed Object	2	22.2%	Monday	2	22.2%	02 AM	1	11.1%	Passenger	10	62.5%
Rear End	5	55.6%	Tuesday	2	22.2%	09 AM	1	11.1%	Pickup	1	6.3%
Turning	2	22.2%	Thursday	3	33.3%	1 PM	1	11.1%	SUV	4	25.0%
<b>TOTAL:</b>	<b>9</b>		Friday	1	11.1%	4 PM	2	22.2%	Van/Mini-Van	1	6.3%
			Sunday	1	11.1%	5 PM	3	33.3%	<b>TOTAL:</b>	<b>16</b>	
			<b>TOTAL:</b>	<b>9</b>		11 PM	1	11.1%			
						<b>TOTAL:</b>	<b>9</b>				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	7	77.8%	Darkness	3	33.3%	Dry	3	33.3%	East	3	18.8%
Rain	1	11.1%	Darkness, Lighted Road	2	22.2%	Snow or Slush	1	11.1%	North	3	18.8%
Snow	1	11.1%	Daylight	4	44.4%	Unknown	1	11.1%	Northeast	2	12.5%
<b>TOTAL:</b>	<b>9</b>		<b>TOTAL:</b>	<b>9</b>		Wet	4	44.4%	South	6	37.5%
						<b>TOTAL:</b>	<b>9</b>		West	2	12.5%
									<b>TOTAL:</b>	<b>16</b>	



**Coordinate Collision Diagram Report**

1/1/2012 to 12/31/2012

For XCoordinate 2949702.38281955 : YCoordinate 1822780.45094761 | Foot Tolerance : 30 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

**Notes**

Current year and previous year data are not yet complete and are subject to change as more information becomes available. Calendar date selections include data based on the date of the crash. Year selections include data based on the statistical year in which the crash was processed.



Coordinate Collision Diagram Report

1/1/2011 to 12/31/2011

For XCoordinate 2949702.38281955 : YCoordinate 1822780.45094761 | Foot Tolerance : 30 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

Date	Weather	Roadway	Injuries A	Injuries B	C	Killed	Type of Crash	Light Condition	Mile	XCoordinate	YCoordinate	Vehicle Type	DIRP	Maneuver	Event 1	Loc 1	Event 2	Loc 2	Event 3	Loc 3	Unit	
201101074650	Snow	Snow or Slush	0	1	0	0	Angle	Darkness, Lighted Road	0.00	2949702.00016317	1822779.99985659	Passenger	East	Skidding/Control Loss	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	1
201101121268												Passenger	North	Straight Ahead	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	2
3/21/2011 12:30 PM	Clear	Dry	0	2	0	0	Sideswipe Same Direction	Daylight	0.00	2949702.55950791	1822780.02381826	Passenger	South	Straight Ahead	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	1
												Passenger	South	Slow/Stop In Traffic	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	2
												Passenger	South	Slow/Stop In Traffic	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	3
												SUV	South	Slow/Stop In Traffic	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	4
												Passenger	South	Slow/Stop In Traffic	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	5
												Passenger	South	Slow/Stop In Traffic	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	6
												SUV	South	Slow/Stop In Traffic	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	7
												Van/Mini-Van	South	Slow/Stop In Traffic	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	8
201101146446																						
4/25/2011 12:11 PM	Clear	Wet	0	0	1	0	Rear End	Daylight	0.00	2949702.0063985	1822779.85087868	Passenger	South	Straight Ahead	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	1
												Passenger	South	Slow/Stop In Traffic	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	2



**Coordinate Collision Diagram Report**

1/1/2011 to 12/31/2011

For XCoordinate 2949702.38281955 : YCoordinate 1822780.45094761 | Foot Tolerance : 30 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

Date	Weather	Roadway	Injuries A	Injuries B	C	Killed	Type of Crash	Light Condition	Mile	XCoordinate	YCoordinate	Vehicle Type	DIRP	Maneuver	Event 1	Loc 1	Event 2	Loc 2	Event 3	Loc 3	Unit	
201101438035																						
12/13/2011 12:01 AM	Clear	Dry	0	1	1	0	Turning	Darkness, Lighted Road	0.00	2949702.00016317	1822779.99865689	Passenger	East	Turning Left	Motor Vehicle In Traffic	Intersection	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	1
												Passenger	North	Straight Ahead	Motor Vehicle In Traffic	Intersection	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	2



Coordinate Collision Diagram Report

1/1/2011 to 12/31/2011

For XCoordinate 2949702.38281955 : YCoordinate 1822780.45094761 | Foot Tolerance : 30 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
4	0	0	3	1	0	0	6	0	4	2

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	1	25.0%	Monday	3	75.0%	Midnight	1	25.0%	Passenger	11	78.6%
Rear End	1	25.0%	Tuesday	1	25.0%	Noon	2	50.0%	SUV	2	14.3%
Sideswipe Same Direction	1	25.0%	<b>TOTAL:</b>	<b>4</b>		9 PM	1	25.0%	Van/Mini-Van	1	7.1%
Turning	1	25.0%				<b>TOTAL:</b>	<b>4</b>		<b>TOTAL:</b>	<b>14</b>	
<b>TOTAL:</b>	<b>4</b>										

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	3	75.0%	Darkness, Lighted Road	2	50.0%	Dry	2	50.0%	East	2	14.3%
Snow	1	25.0%	Daylight	2	50.0%	Snow or Slush	1	25.0%	North	2	14.3%
<b>TOTAL:</b>	<b>4</b>		<b>TOTAL:</b>	<b>4</b>		Wet	1	25.0%	South	10	71.4%
						<b>TOTAL:</b>	<b>4</b>		<b>TOTAL:</b>	<b>14</b>	



### Coordinate Collision Diagram Report

1/1/2011 to 12/31/2011

For XCoordinate 2949702.38281955 : YCoordinate 1822780.45094761 | Foot Tolerance : 30 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

#### Notes

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**Coordinate Collision Diagram Report**  
1/1/2010 to 12/31/2010

For XCoordinate 2949702.38281955 : YCoordinate 1822780.45094761 | Foot Tolerance : 30 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

Date	Weather	Roadway	Injuries A	Injuries B	Injuries C	Killed	Type of Crash	Light Condition	Mile	XCoordinate	YCoordinate	Vehicle Type	DIRP	Maneuver	Event 1	Loc 1	Event 2	Loc 2	Event 3	Loc 3	Unit	
201001452126																						
12/8/2010 11:13 AM	Clear	Dry	0	0	0	0	Rear End	Daylight	4.00	2949702.00016317	-1622779.9988569	Passenger	West	Straight Ahead	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	1
.....																						
201001462697																						
12/23/2010 10:07 AM	Clear	Wet	0	0	0	0	Rear End	Daylight	4.00	2949702.00016317	-1622779.9988569	Passenger	South	Slow/Stop In Traffic	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	1
.....																						
												Passenger	South	Slow/Stop In Traffic	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	2



**Coordinate Collision Diagram Report**

1/1/2010 to 12/31/2010

For XCoordinate 2949702.38281955 : YCoordinate 1822780.45094761 | Foot Tolerance : 30 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
7	0	0	3	0	4	0	4	0	0	4

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	1	14.3%	Wednesday	2	28.6%	10 AM	1	14.3%	Passenger	11	78.6%
Rear End	3	42.9%	Thursday	1	14.3%	11 AM	1	14.3%	Pickup	1	7.1%
Turning	3	42.9%	Friday	3	42.9%	1 PM	1	14.3%	SUV	1	7.1%
<b>TOTAL:</b>	<b>7</b>		<b>Sunday</b>	<b>1</b>	<b>14.3%</b>	<b>2 PM</b>	<b>1</b>	<b>14.3%</b>	<b>Van/Mini-Van</b>	<b>1</b>	<b>7.1%</b>
			<b>TOTAL:</b>	<b>7</b>		<b>3 PM</b>	<b>1</b>	<b>14.3%</b>	<b>TOTAL:</b>	<b>14</b>	
						<b>5 PM</b>	<b>1</b>	<b>14.3%</b>			
						<b>6 PM</b>	<b>1</b>	<b>14.3%</b>			
						<b>TOTAL:</b>	<b>7</b>				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	7	100.0%	Daylight	6	85.7%	Dry	6	85.7%	East	2	14.3%
<b>TOTAL:</b>	<b>7</b>		<b>Dusk</b>	<b>1</b>	<b>14.3%</b>	<b>Wet</b>	<b>1</b>	<b>14.3%</b>	<b>North</b>	<b>2</b>	<b>14.3%</b>
			<b>TOTAL:</b>	<b>7</b>		<b>TOTAL:</b>	<b>7</b>		<b>South</b>	<b>6</b>	<b>42.9%</b>
									<b>Southeast</b>	<b>1</b>	<b>7.1%</b>
									<b>West</b>	<b>3</b>	<b>21.4%</b>
									<b>TOTAL:</b>	<b>14</b>	



**Coordinate Collision Diagram Report**

1/1/2010 to 12/31/2010

For XCoordinate 2949702.38281955 : YCoordinate 1822780.45094761 | Foot Tolerance : 30 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

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Report No : SDM-RC  
 Sorted by : Mile / Date / ICN

Report Produced : 12/5/2014 2:14 PM  
 By: CENTRALISPERRYSJ  
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**Coordinate Collision Diagram Report**  
 1/1/2009 to 12/31/2009

For XCoordinate 2949702.80335823 : YCoordinate 1822780.21541759 | Foot Tolerance : 30 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

Date	Weather	Roadway	A	Injuries B	C	Killed	Type of Crash	Light Condition	Mile	XCoordinate YCoordinate	Vehicle Type	DIRP	Maneuver	Event 1	Loc 1	Event 2	Loc 2	Event 3	Loc 3	Unit	
200901073614																					
21/3/2009 1:52 PM	Clear	Dry	0	0	0	0	Rear End	Daylight	4.00	2949702.02460178 1822779.55722208	Passenger	South	Straight Ahead	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	1	
200901073609																					
21/3/2009 4:55 PM	Clear	Dry	0	0	0	0	Turning	Daylight	4.00	2949702.00016317 1822779.99985659	Passenger	South	Slow/Stop In Traffic	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	2	
200901145198																					
4/9/2009 8:07 AM	Clear	Dry	0	0	0	0	Rear End	Daylight	4.00	2949702.0246662 1822779.55605515	Passenger	East	Straight Ahead	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	2	
200901270782																					
7/20/2009 4:04 PM	Clear	Dry	0	1	3	0	Turning	Daylight	4.00	2949702.00016317 1822779.99985659	Passenger	East	Slow/Stop In Traffic	Motor Vehicle In Traffic	Intersection	(UNK)	(UNK)	(UNK)	(UNK)	1	
200901319897																					
8/29/2009 1:45 PM	Clear	Dry	0	0	1	0	Pedestrian	Daylight	4.00	2949702.00016317 1822779.99985659	SUV	Northeast	Turning Left	Motor Vehicle In Traffic	Intersection	(UNK)	(UNK)	(UNK)	(UNK)	3	
200901319897																					
8/29/2009 1:45 PM	Clear	Dry	0	0	1	0	Pedestrian	Daylight	4.00	2949702.00016317 1822779.99985659	Passenger	West	Straight Ahead	Motor Vehicle In Traffic	Intersection	(UNK)	(UNK)	(UNK)	(UNK)	1	
200901319897																					
8/29/2009 1:45 PM	Clear	Dry	0	0	1	0	Pedestrian	Daylight	4.00	2949702.00016317 1822779.99985659	Passenger	North	Straight Ahead	Pedestrian	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	1	



Report No : SDM-RC  
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Report Produced : 12/5/2014 2:14 PM  
 By: CENTRALISPERRYSJ  
 Page : 2 of 4

**Coordinate Collision Diagram Report**

1/1/2009 to 12/31/2009

For XCoordinate 2949702.80335823 : YCoordinate 1822780.21541759 | Foot Tolerance : 30 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

Date	Weather	Roadway	Injuries A	Injuries B	Injuries C	Killed	Type of Crash	Light Condition	Mile	XCoordinate	YCoordinate	Vehicle Type	DIRP	Maneuver	Event 1	Loc 1	Event 2	Loc 2	Event 3	Loc 3	Unit
200901380890	Clear	Dry	0	0	0	0	Turning	Darkness	4.00	2949702.00016317	1822779.99865689	Passenger	North	Straight Ahead	Motor Vehicle In Traffic	Intersection	(UNK)	(UNK)	(UNK)	(UNK)	2
9/19/2009 9:20 PM												Passenger	South	Turning Left	Motor Vehicle In Traffic	Intersection	(UNK)	(UNK)	(UNK)	(UNK)	1



Coordinate Collision Diagram Report

1/1/2009 to 12/31/2009

For XCoordinate 2949702.80335823 : YCoordinate 1822780.21541759 | Foot Tolerance : 30 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
6	0	0	1	1	4	0	5	0	0	1

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Pedestrian	1	16.7%	Monday	1	16.7%	08 AM	1	16.7%	Passenger	10	83.3%
Rear End	2	33.3%	Thursday	1	16.7%	1 PM	2	33.3%	SUV	2	16.7%
Turning	3	50.0%	Friday	2	33.3%	4 PM	2	33.3%	TOTAL:	12	
TOTAL:	6		Saturday	2	33.3%	9 PM	1	16.7%			
			TOTAL:	6		TOTAL:	6				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	6	100.0%	Darkness	1	16.7%	Dry	6	100.0%	East	3	25.0%
TOTAL:	6		Daylight	5	83.3%	TOTAL:	6		North	2	16.7%
			TOTAL:	6					Northeast	1	8.3%
									South	4	33.3%
									Southwest	1	8.3%
									West	1	8.3%
									TOTAL:	12	



### Coordinate Collision Diagram Report

1/1/2009 to 12/31/2009

For XCoordinate 2949702.80335823 : YCoordinate 1822780.21541759 | Foot Tolerance : 30 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

#### Notes

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**Coordinate Collision Diagram Report**  
1/1/2008 to 12/31/2008

For XCoordinate 2949702.80335823 : YCoordinate 1822780.21541759 | Foot Tolerance : 30 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

Date	Weather	Roadway	Injuries A	Injuries B	C	Killed	Type of Crash	Light Condition	Mile	XCoordinate	YCoordinate	Vehicle Type	DIRP	Maneuver	Event 1	Loc 1	Event 2	Loc 2	Event 3	Loc 3	Unit	
80213762																						
1/17/2008 3:54 PM	Steel/Hail	Ice	0	0	0	0	Rear End	Daylight	3.97	2949702.00016317	1822779.99885659	Pickup	East	Slow/Stop In Traffic	Motor Vehicle In Traffic	Intersection	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	2
80530108																						
1/18/2008 8:23 AM	Clear	Ice	0	0	0	0	Rear End	Daylight	3.97	2949702.00016317	1822779.99885659	Pickup	North	Straight Ahead	Motor Vehicle In Traffic	Intersection	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	1
80874258																						
2/1/2008 10:53 AM	Rain	Snow or Slush	0	0	0	0	Turning	Daylight	3.97	2949702.00016317	1822779.99885659	SUV	South	Turning Right	Motor Vehicle In Traffic	Intersection	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	1
80925738																						
2/12/2008 8:10 AM	Clear	Wet	0	0	0	0	Rear End	Daylight	3.97	2949702.00016317	1822779.9988566	Passenger	East	Slow/Stop In Traffic	Motor Vehicle In Traffic	Intersection	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	2
81370635																						
3/22/2008 10:42 PM	Clear	Dry	0	0	0	0	Fixed Object	Darkness/Lighted Road	3.97	2949702.00016317	1822779.9988566	Passenger	Northeast	Turning Left	Ran Off Roadway	Off Pavement - Right	Traffic Signal	Off Pavement - Right	(UNK)	(UNK)	(UNK)	1





**Coordinate Collision Diagram Report**  
1/1/2008 to 12/31/2008

For XCoordinate 2949702.80335823 : YCoordinate 1822780.21541759 | Foot Tolerance : 30 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

Date	Weather	Roadway	Injuries A	Injuries B	Injuries C	Killed	Type of Crash	Light Condition	Mile	XCoordinate	YCoordinate	Vehicle Type	DIRP	Maneuver	Event 1	Loc 1	Event 2	Loc 2	Event 3	Loc 3	Unit	
84682780																						
11/13/2008 12:38 PM	Clear	Dry	0	0	0	0	Fixed Object	Daylight	3.97	2949702.00016317	-1622779.99885659	Passenger	Northeast	Slow/Stop - Left Turn	Unknown	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	1
												Passenger	West	Avoiding Vehicle/Objects	Curb	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	2
84857432																						
12/5/2008 6:05 PM	Clear	Dry	0	0	0	0	Rear End	Darkness	3.97	2949702.0083346	-1622779.96034476	Passenger	South	Straight Ahead	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	1
												Passenger	South	Straight Ahead	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	(UNK)	2



**Coordinate Collision Diagram Report**

1/1/2008 to 12/31/2008

For XCoordinate 2949702.803335823 : YCoordinate 1822780.21541759 | Foot Tolerance : 30 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
12	0	0	2	0	10	0	3	0	2	1

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Fixed Object	2	16.7%	Monday	2	16.7%	08 AM	3	25.0%	Passenger	15	65.2%
Rear End	6	50.0%	Tuesday	2	16.7%	10 AM	2	16.7%	Pickup	5	21.7%
Turning	4	33.3%	Wednesday	1	8.3%	Noon	1	8.3%	SUV	1	4.3%
<b>TOTAL:</b>	<b>12</b>		Thursday	3	25.0%	3 PM	3	25.0%	Van/Mini-Van	2	8.7%
			Friday	3	25.0%	4 PM	1	8.3%	<b>TOTAL:</b>	<b>23</b>	
			Saturday	1	8.3%	6 PM	1	8.3%			
			<b>TOTAL:</b>	<b>12</b>		10 PM	1	8.3%			

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	8	66.7%	Darkness	1	8.3%	Dry	7	58.3%	East	9	39.1%
Rain	3	25.0%	Darkness/ Lighted Road	1	8.3%	Ice	2	16.7%	North	2	8.7%
Sleet/Hail	1	8.3%	Daylight	10	83.3%	Snow or Slush	1	8.3%	Northeast	2	8.7%
<b>TOTAL:</b>	<b>12</b>		<b>TOTAL:</b>	<b>12</b>		Wet	2	16.7%	South	7	30.4%
						<b>TOTAL:</b>	<b>12</b>		Southwest	1	4.3%
									West	2	8.7%
									<b>TOTAL:</b>	<b>23</b>	



### Coordinate Collision Diagram Report

1/1/2008 to 12/31/2008

For XCoordinate 2949702.80335823 : YCoordinate 1822780.21541759 | Foot Tolerance : 30 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

#### Notes

Current year and previous year data are not yet complete and are subject to change as more information becomes available. Calendar date selections include data based on the date of the crash. Year selections include data based on the statistical year in which the crash was processed.







Coordinate Collision Diagram Report

1/1/2007 to 12/31/2007

For XCoordinate 2949702.80335823 : YCoordinate 1822780.21541759 | Foot Tolerance : 30 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
8	0	0	3	1	4	0	5	0	4	1

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	3	37.5%	Monday	1	12.5%	Midnight	1	12.5%	Passenger	13	81.3%
Rear End	5	62.5%	Wednesday	3	37.5%	08 AM	1	12.5%	SUV	3	18.8%
<b>TOTAL:</b>	<b>8</b>		Thursday	2	25.0%	10 AM	1	12.5%	<b>TOTAL:</b>	<b>16</b>	
			Saturday	1	12.5%	2 PM	1	12.5%			
			Sunday	1	12.5%	7 PM	1	12.5%			
			<b>TOTAL:</b>	<b>8</b>		8 PM	1	12.5%			
						10 PM	1	12.5%			
						11 PM	1	12.5%			
						<b>TOTAL:</b>	<b>8</b>				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	6	75.0%	Darkness	2	25.0%	Dry	5	62.5%	East	1	6.3%
Other	1	12.5%	Darkness/ Lighted Road	2	25.0%	Snow or Slush	1	12.5%	North	4	25.0%
Snow	1	12.5%	Daylight	4	50.0%	Wet	2	25.0%	South	9	56.3%
<b>TOTAL:</b>	<b>8</b>		<b>TOTAL:</b>	<b>8</b>		<b>TOTAL:</b>	<b>8</b>		West	2	12.5%
									<b>TOTAL:</b>	<b>16</b>	



### Coordinate Collision Diagram Report

1/1/2007 to 12/31/2007

For XCoordinate 2949702.80335823 : YCoordinate 1822780.21541759 | Foot Tolerance : 30 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

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Report Produced : 12/5/2014 2:11 PM  
By: CENTRALSPERRYSJ  
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**Coordinate Collision Diagram Report**  
1/1/2006 to 12/31/2006

For XCoordinate 2949702.80335823 : YCoordinate 1822780.21541759 | Foot Tolerance : 30 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

Date	Weather	Roadway	Injuries A	Injuries B	C	Killed	Type of Crash	Light Condition	Mile	XCoordinate YCoordinate	Vehicle Type	DIRP	Maneuver	Event 1	Loc 1	Event 2	Loc 2	Event 3	Loc 3	Unit
60516044	Clear	Dry	0	0	0	0	Rear End	Daylight	3.97	2949702.80335823 1822780.21541759	Van/Mini-Van	North	Straight Ahead	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	1
61463089	Rain	Wet	0	0	0	0	Rear End	Dusk	3.97	2949702.7111831 1822779.96276908	Passenger	West	Straight Ahead	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	1
61460002	Clear	Dry	0	0	0	0	Turning	Daylight	3.97	2949702.64062602 1822780.122586	Passenger	North	Straight Ahead	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	2
61463394	Clear	Dry	0	0	1	0	Turning	Daylight	3.97	2949702.61753007 1822779.52296319	Passenger	East	Turning Left	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	1
61429049	Rain	Wet	0	0	0	0	Turning	Darkness	3.97	2949702.2263129 1822778.56448112	Passenger	Southwest	Turning Left	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	1
											Passenger	East	Straight Ahead	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	2
											Passenger	Northeast	Turning Left	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	1
											Passenger	West	Straight Ahead	Motor Vehicle In Traffic	On Pavement (Roadway)	(UNK)	(UNK)	(UNK)	(UNK)	2





Coordinate Collision Diagram Report

1/1/2006 to 12/31/2006

For XCoordinate 2949702.80335823 : YCoordinate 1822780.21541759 | Foot Tolerance : 30 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
8	0	0	0	1	7	0	1	0	0	1

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Rear End	3	37.5%	Monday	1	12.5%	07 AM	1	12.5%	Passenger	10	62.5%
Turning	5	62.5%	Tuesday	1	12.5%	09 AM	1	12.5%	SUV	3	18.8%
<b>TOTAL:</b>	<b>8</b>		Wednesday	1	12.5%	Noon	1	12.5%	Van/Mini-Van	3	18.8%
			Thursday	2	25.0%	1 PM	1	12.5%	<b>TOTAL:</b>	<b>16</b>	
			Saturday	3	37.5%	3 PM	1	12.5%			
			<b>TOTAL:</b>	<b>8</b>		6 PM	1	12.5%			
						7 PM	1	12.5%			
						10 PM	1	12.5%			
						<b>TOTAL:</b>	<b>8</b>				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	5	62.5%	Darkness	2	25.0%	Dry	4	50.0%	East	5	31.3%
Rain	3	37.5%	Daylight	5	62.5%	Unknown	1	12.5%	North	4	25.0%
<b>TOTAL:</b>	<b>8</b>		Dusk	1	12.5%	Wet	3	37.5%	Northeast	1	6.3%
			<b>TOTAL:</b>	<b>8</b>		<b>TOTAL:</b>	<b>8</b>		South	1	6.3%
									Southwest	1	6.3%
									West	4	25.0%
									<b>TOTAL:</b>	<b>16</b>	



### Coordinate Collision Diagram Report

1/1/2006 to 12/31/2006

For XCoordinate 2949702.80335823 : YCoordinate 1822780.21541759 | Foot Tolerance : 30 | County : Cook | Intersection Related: Intersections | \*See Notes at End of Report.

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# Traffic Volume

# 135<sup>th</sup> St and Ridgeland Ave 2006/2010

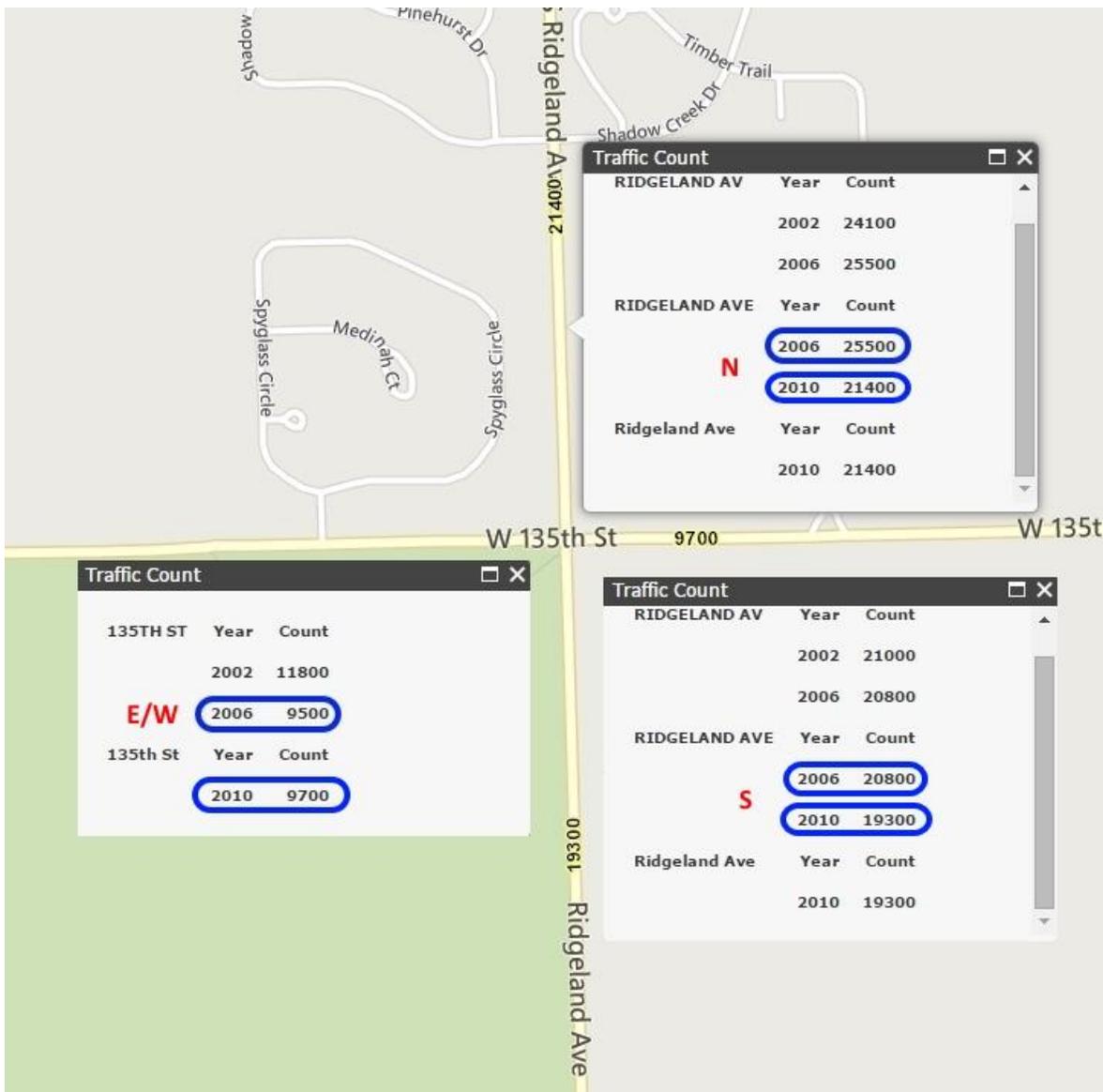
The traffic numbers below were obtained from the IDOT website per the RLR Guideline document published by IDOT. Only ADT values were available, peak numbers were not provided.

## Ridgeland Ave ADT

- North: 25,500/21,400
- South: 20,800/19,300

## 135<sup>th</sup> St ADT

- East: 9,500/9,700
- West: 9,500/9,700



## 135<sup>th</sup> St and Ridgeland Ave December 2013

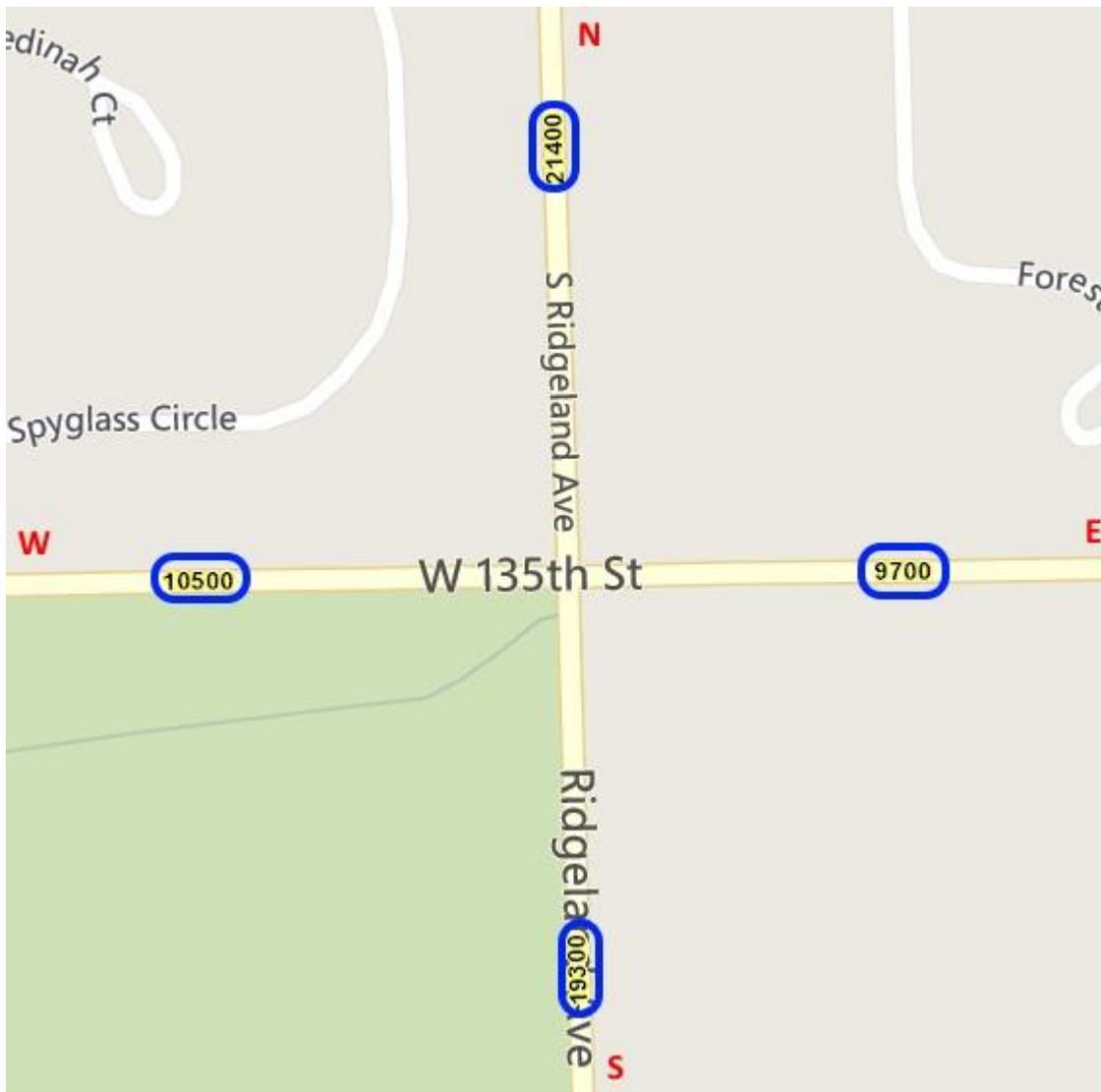
The traffic numbers below were obtained from the IDOT website per the RLR Guideline document published by IDOT. Only ADT values were available, peak numbers were not provided.

### Ridgeland Ave ADT

- North: 21,400
- South: 19,300

### 135<sup>th</sup> St ADT

- East: 9,700
- West: 10,500



# Report Summary

All processes are in compliance with the RLR regulations laid out by the Illinois Department of Transportation District 1 Bureau of Traffic Operations.

The IDOT District 1 Bureau of Traffic Operations requires a comprehensive report to be distributed one year after the installation of RLR cameras as well as every three years thereafter detailing the efficacy of each system within its jurisdiction by intersection and approach. Though RedFlex was under obligation to complete these reports, no such reports were submitted to IDOT during the time in which RedFlex was the RLR vendor for the **City of Palos Heights**. Combining adjudication data received from RedFlex with crash data received from IDOT, this report was completed by SafeSpeed, LLC in order to remain in compliance with IDOT regulations.

After analyzing all of the available data, we believe the RLR cameras located at the westbound approach of 135<sup>th</sup> St and Ridgeland Ave in the **City of Palos Heights** have clearly made a positive impact with regard to traffic safety. **Total** crashes decreased by 21.7% at the intersection of 135<sup>th</sup> St and Ridgeland Ave. **Rear End** and **Turning** crashes were also reduced significantly. These cameras play a recognizably important role in monitoring these intersections while encouraging safe driving habits.

The long-term goal of RLR camera enforcement programs such as this one is to increase traffic safety by enforcing red light running ordinances in a consistent manner and with transparency for a sustained period. The timing of the traffic signals at this intersection has not been altered, and should not be altered while the RLR camera system is in operation. These cameras have become a part of everyday life for motorists living and working in this area and should remain so.