

IL RT. 43 (Harlem Ave) and 22nd St (Cermak Rd)
<Northbound and Westbound>



CITY OF BERWYN, ILLINOIS

RLR 3 Year Follow-Up
Evaluation Report

Northbound Reference No: 016-48868

Westbound Reference No: 016-58096

July 2020



BERWYN POLICE DEPARTMENT

"Serving with Pride"



Chief of Police
Michael D. Cimaglia

Mayor
Robert J. Lovero

July 15, 2020

Thomas G. Gallenbach, P.E.
Area Permit Engineer
Illinois Department of Transportation
Bureau of Traffic
201 West Center Court
Schaumburg, Illinois 60196-1096

RE: RLR 3 Year Follow-Up Evaluation Report
Northbound and Westbound Harlem Ave and Cermak Rd
City of Berwyn
Ref # 016-48868 / 016-58096

Dear Mr. Gallenbach,

Please find enclosed a copy of the 3 Year RLR Follow-Up Evaluation Report for the intersection of Harlem Ave. and Cermak Rd Northbound and Westbound, Berwyn, Illinois.

In this submittal, included are: RLR Camera Location, Implementation Date, System Manufacturer and Contractors, RLR Crash Data and Analysis, Traffic Volume, Summary of Adjudication, and Summary section.

If you have any questions with regard to this submittal or require any additional information, please free to contact us at 708-795-2100, mcimaglia@ci.berwyn.il.us.

Best Regards,

On Behalf of the City of Berwyn
Michael Cimaglia
Chief of Police

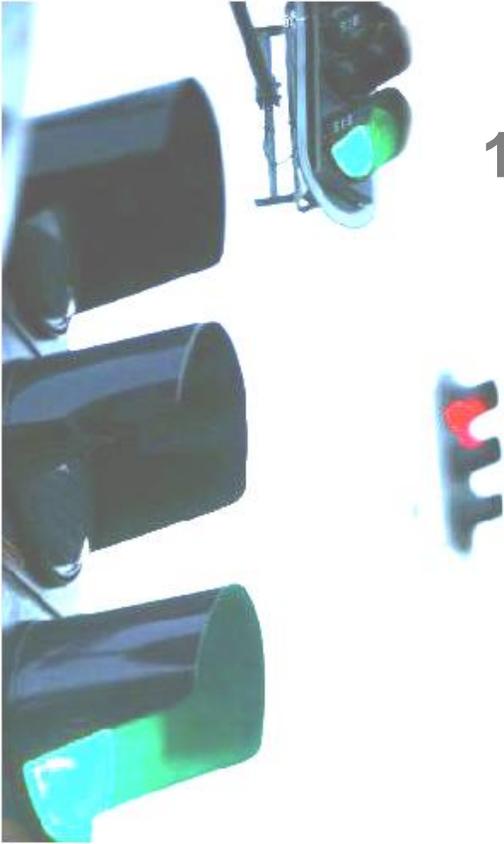
Evaluation Checklist

RLR FOLLOW-UP EVALUATION REPORT CHECKLIST

Reference Number:			Date:
Location:			Firm:
Yes	No	N/A	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Intersection location and RLR camera approaches identified
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Date of RLR camera implementation
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RLR camera system manufacturer and contractor name
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Crash data including 3 years prior to RLR camera installation with post period crash data
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Analysis of crash data
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Signal timing changes
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Traffic volumes before and after RLR cameras
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Recommendations
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Summary of adjudication experience and results

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2. RLR Crash Data and Analysis
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5. Report Summary and Recommendation



1. RLR Camera Location, Live Date, System Manufacturer and Contractor

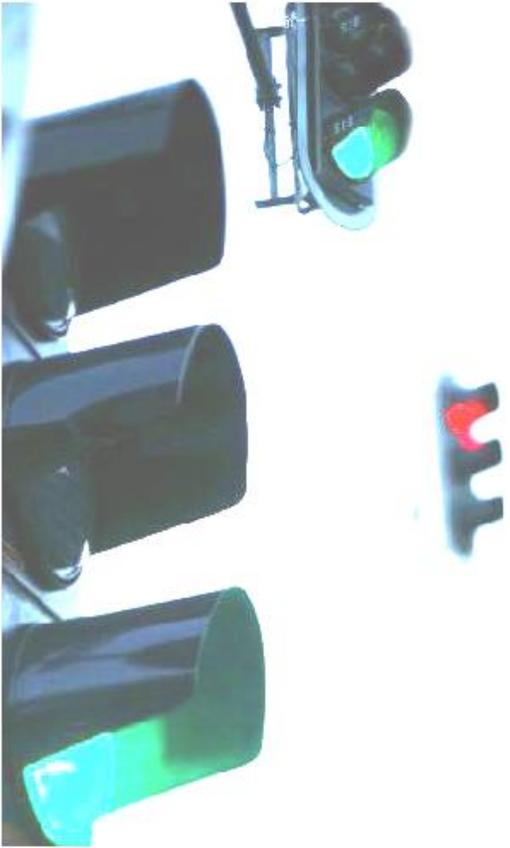
In 2011, the **City of Berwyn** received approval from the Illinois Department of Transportation (IDOT) to install a Red Light Running (RLR) camera on the **Northbound** approach of the intersection **IL RT. 43 (Harlem Ave) and 22nd St (Cermak Rd)**. In 2015, the IDOT approved installing an additional RLR camera on the **Westbound** approach at the intersection. In order to keep a close eye on the crash trends year after year at this intersection, a merged follow-up report for **Westbound** and **Northbound** has been prepared.

- Date on which the camera went live at the **Northbound** approach: **06/2011**
- Date on which the 1 Year Follow-Up Evaluation Report on the **Northbound** approach was submitted to the IDOT: **10/2013**
- Date on which the camera went live at the **Westbound** approach: **04/2015**
- Date on which the 3 Year Follow-Up Evaluation Report on the **Northbound** approach was submitted to the IDOT: **09/2017**
- Date on which the 1 Year Follow-Up Evaluation Report on the **Westbound** approach was submitted to the IDOT: **12/2018**

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.

Below is the RLR camera system manufacturer and contractor information.

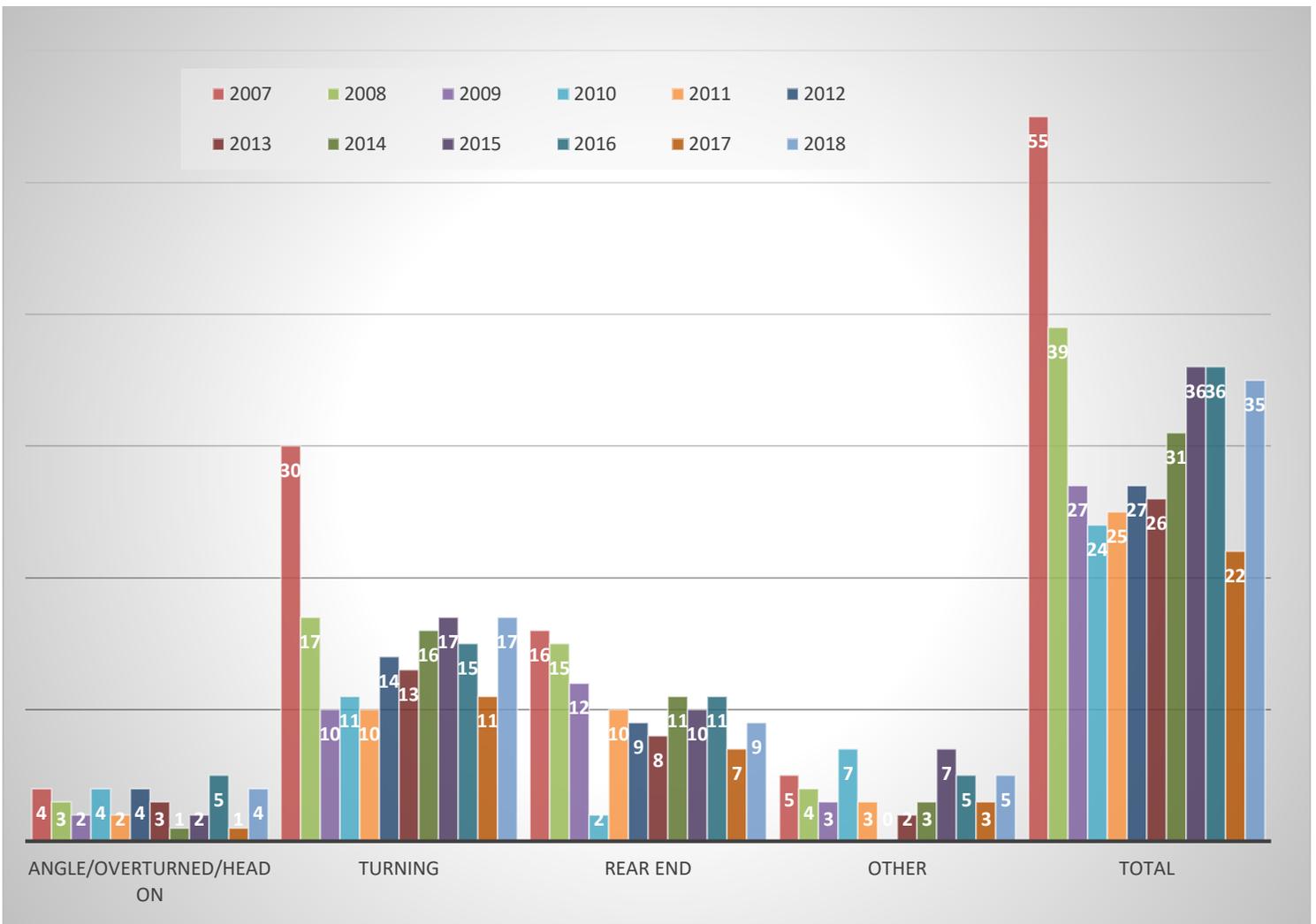
<p>RLR Camera System Manufacturer</p> <p>SafeSpeed, LLC 150 North Wacker Drive Floor 8 Chicago, IL 60606</p> <p>Phone: (877) 237-2331 Fax: (877) 237-2302 Email: info@safespeedllc.com Web: safespeedllc.com</p> <p>Key Contact: Ryan Kim Phone: (312) 924-7248 Email: rkim@safespeedllc.com</p>	<p>Electrical Contractor</p> <p>Meade Electric Company 9550 West 55 Street McCook, IL 60525</p> <p>Phone: (708) 588-2500 Fax: (708) 588-2501 Email: info@meadeelectric.com Web: meadeelectric.com</p> <p>Key Contact: Michael Knutson Phone: (708) 588-2500 Email: mkk@meade100.com</p>
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2. RLR Crash Data and Analysis

The tables and chart below show a summary of motor vehicle crashes at the intersection of IL RT. 43 (Harlem Ave) and 22nd St (Cermak Rd) over a span of 12 years.

	Angle	Overturned /Head On	Turning	Rear End	Pedestrian/ Pedalcyclist	Sideswipe	Fixed Object	Other Non-Collision	Total
2007	4	0	30	16	0	4	1	0	55
2008	3	0	17	15	0	2	2	0	39
2009	2	0	10	12	1	1	1	0	27
2010	4	0	11	2	1	1	5	0	24
2011	2	0	10	10	1	1	1	0	25
2012	4	0	14	9	0	0	0	0	27
2013	3	0	13	8	1	1	0	0	26
2014	1	0	16	11	3	0	0	0	31
2015	1	1	17	10	2	2	3	0	36
2016	4	1	15	11	2	3	0	0	36
2017	1	0	11	7	2	0	1	0	22
2018	4	0	17	9	1	3	0	1	35



		Before the RLR Camera Installation				NB	After the RLR Camera Installation						
		07	08	09	10		12	13	SB	EB, WB	14	15	16
Type	Year*												
Angle/Overturned /Head On		4	3	2	4	2	4	3	1	2	5	1	4
Turning		30	17	10	11	10	14	13	16	17	15	11	17
Rear End		16	15	12	2	10	9	8	11	10	11	7	9
Other***		5	4	3	7	3	0	2	3	7	5	3	5
Total		55	39	27	24	25	27	26	31	36	36	22	35
Yearly Average		36.25					29.2						

- The data from 2007-2010** shows the period prior to the installation of the RLR camera.
- The data from 2011**** shows the year in which the RLR camera was originally installed on Northbound in Berwyn.
- The data from 2014**** shows the year in which the RLR camera was installed on Southbound in North Riverside.
- The data from 2015**** shows the year in which the RLR camera was installed on Eastbound in North Riverside and Westbound in Berwyn.
- The data from 2012-2013 and 2016-2018 shows the period following the installation.

From 2007-2010, prior to the RLR camera installation, there were 145 total crashes, an average of 36.25 crashes per year.

From 2012-2013 and 2016-2018, post the RLR camera installation, there were 146 total crashes, an average of 29.2 crashes per year, resulting in a 19.45% reduction in overall crashes in direct comparison with the time period aforementioned.

The following pages contain crash data summary pages from 2007-2018. The complete crash data can be obtained by contacting the IDOT via DOT.DTS.DataRequests@illinois.gov.

* DISCLAIMER: The motor vehicle crash data referenced herein was provided by the IDOT. Any conclusions drawn from analysis of the aforementioned data are the sole responsibility of the data recipient(s). Additionally, for coding years 2015 to present, the Bureau of Data Collection uses the exact latitude/longitude supplied by the investigating law enforcement agency to locate crashes. Therefore, location data may vary in previous years since data prior to 2015 was physically located by bureau personnel.

** Please note that the law regarding the crash reporting threshold for Property Damage Only crashes was amended effective January 1, 2009, to the following: When all drivers involved in a crash are insured, the amount of damage to the property of any one person that must be reported increased from \$500 to \$1,500. If any driver does not have insurance, the threshold remains at \$500. This change in law precludes comparison of 2009 and later Property Damage Only crashes and Total crashes with such crashes for previous years. The change did NOT affect the reporting of injury or fatal crashes.

*** Other crashes include: Pedestrian/Pedalcyclist, Sideswipe, Fixed Object and Other Non-Collision.

****Data from 2011 and 2014-2015 has been discarded, since IDOT disregards any data from the year that a major road way improvement took place. This includes traffic signal modernization and installation of a new RLR camera.

Collision Diagram

1/1/2007 to 12/31/2007

Crash Route: IL043 | From MileStation 23.95 to 23.95 | County : Cook | Intersection Related: Intersections | *See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
<u>55</u>	<u>0</u>	<u>18</u>	<u>37</u>	<u>0</u>	<u>28</u>	<u>0</u>	<u>13</u>	<u>15</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
10-Turning	30	54.5%	Monday	4	7.3%	Midnight	3	5.5%	Bus over 15 pass.	1	0.8%
11-Rear end	16	29.1%	Tuesday	10	18.2%	05 AM	2	3.6%	Passenger	79	66.9%
12-Sideswipe same direction	3	5.5%	Wednesday	6	10.9%	06 AM	3	5.5%	Pickup	4	3.4%
13-Sideswipe opp. direction	1	1.8%	Thursday	7	12.7%	07 AM	1	1.8%	Sport utility vehicle (SUV)	17	14.4%
15-Angle	4	7.3%	Friday	11	20.0%	08 AM	1	1.8%	Tractor w/ semi-trailer	1	0.8%
6-Fixed object	1	1.8%	Saturday	12	21.8%	09 AM	3	5.5%	Unknown/NA	1	0.8%
TOTAL:	55		Sunday	5	9.1%	10 AM	4	7.3%	Van/mini van	15	12.7%
			TOTAL:	55		11 AM	2	3.6%	TOTAL:	118	
						Noon	3	5.5%			
						1 PM	2	3.6%			
						2 PM	5	9.1%			
						3 PM	1	1.8%			
						4 PM	6	10.9%			
						5 PM	5	9.1%			
						6 PM	8	14.5%			
						8 PM	4	7.3%			
						9 PM	2	3.6%			
						TOTAL:	55				
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	41	74.5%	Darkness	3	5.5%	Dry	39	70.9%	East	27	22.9%

Collision Diagram

1/1/2008 to 12/31/2008

Crash Route: IL043 | From MileStation 23.95 to 23.95 | County : Cook | Intersection Related: Intersections | *See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
<u>39</u>	<u>0</u>	<u>7</u>	<u>32</u>	<u>0</u>	<u>10</u>	<u>0</u>	<u>2</u>	<u>8</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
10-Turning	17	43.6%	Monday	6	15.4%	Midnight	1	2.6%	Passenger	63	75.9%
11-Rear end	15	38.5%	Tuesday	7	17.9%	06 AM	1	2.6%	Pickup	3	3.6%
12-Sideswipe same direction	2	5.1%	Wednesday	4	10.3%	07 AM	2	5.1%	Sport utility vehicle (SUV)	12	14.5%
15-Angle	3	7.7%	Thursday	3	7.7%	08 AM	5	12.8%	Tractor w/ semi-trailer	1	1.2%
6-Fixed object	2	5.1%	Friday	9	23.1%	09 AM	4	10.3%	Unknown/NA	1	1.2%
TOTAL:	39		Saturday	6	15.4%	10 AM	1	2.6%	Van/mini van	3	3.6%
			Sunday	4	10.3%	11 AM	1	2.6%	TOTAL:	83	
			TOTAL:	39		Noon	5	12.8%			
						1 PM	5	12.8%			
						2 PM	1	2.6%			
						3 PM	2	5.1%			
						4 PM	1	2.6%			
						5 PM	2	5.1%			
						6 PM	2	5.1%			
						7 PM	1	2.6%			
						8 PM	3	7.7%			
						10 PM	1	2.6%			
						11 PM	1	2.6%			
						TOTAL:	39				

Collision Diagram

1/1/2009 to 12/31/2009

Crash Route: IL043 | From MileStation 23.95 to 23.95 | 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
27	0	0	2	2	23	0	4	0	2	2

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
10-Turning	10	37.0%	Monday	5	18.5%	01 AM	1	3.7%	Passenger	27	50.0%
11-Rear end	12	44.4%	Tuesday	6	22.2%	10 AM	4	14.8%	Pickup	5	9.3%
12-Sideswipe same direction	1	3.7%	Wednesday	5	18.5%	11 AM	1	3.7%	Sport utility vehicle (SUV)	18	33.3%
15-Angle	2	7.4%	Thursday	1	3.7%	1 PM	3	11.1%	Tractor w/ semi-trailer	1	1.9%
1-Pedestrian	1	3.7%	Friday	6	22.2%	2 PM	3	11.1%	Truck - single unit	1	1.9%
6-Fixed object	1	3.7%	Saturday	2	7.4%	3 PM	2	7.4%	Van/mini van	2	3.7%
TOTAL:	27		Sunday	2	7.4%	4 PM	1	3.7%	TOTAL:	54	
			TOTAL:	27		5 PM	2	7.4%			
						6 PM	3	11.1%			
						7 PM	3	11.1%			
						8 PM	1	3.7%			
						9 PM	1	3.7%			
						10 PM	2	7.4%			
						TOTAL:	27				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	21	77.8%	Darkness	3	11.1%	Dry	22	81.5%	East	8	14.8%
Fog/smoke/haze	1	3.7%	Darkness/Lighted road	5	18.5%	Snow or slush	1	3.7%	North	9	16.7%
Rain	4	14.8%	Daylight	17	63.0%	Wet	4	14.8%	Northeast	1	1.9%
Snow	1	3.7%	Dusk	2	7.4%	TOTAL:	27		Northwest	2	3.7%
TOTAL:	27		TOTAL:	27					South	14	25.9%

Collision Diagram

1/1/2010 to 12/31/2010

Crash Route: IL043 | From MileStation 23.95 to 23.95 | 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
<u>24</u>	<u>0</u>	<u>0</u>	<u>2</u>	<u>4</u>	<u>18</u>	<u>0</u>	<u>8</u>	<u>0</u>	<u>2</u>	<u>6</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
10-Turning	11	45.8%	Monday	4	16.7%	Midnight	1	4.2%	Passenger	24	57.1%
11-Rear end	2	8.3%	Tuesday	3	12.5%	02 AM	1	4.2%	Pickup	2	4.8%
12-Sideswipe same direction	1	4.2%	Wednesday	2	8.3%	04 AM	2	8.3%	Sport utility vehicle (SUV)	4	9.5%
15-Angle	4	16.7%	Thursday	6	25.0%	07 AM	1	4.2%	Tractor w/ semi-trailer	1	2.4%
1-Pedestrian	1	4.2%	Friday	4	16.7%	08 AM	2	8.3%	Truck - single unit	1	2.4%
6-Fixed object	5	20.8%	Saturday	4	16.7%	09 AM	2	8.3%	Unknown/NA	4	9.5%
TOTAL:	24		Sunday	1	4.2%	10 AM	1	4.2%	Van/mini van	6	14.3%
			TOTAL:	24		11 AM	4	16.7%	TOTAL:	42	
						1 PM	2	8.3%			
						2 PM	1	4.2%			
						4 PM	2	8.3%			
						5 PM	1	4.2%			
						6 PM	1	4.2%			
						8 PM	2	8.3%			
						9 PM	1	4.2%			
						TOTAL:	24				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	18	75.0%	Darkness	1	4.2%	Dry	18	75.0%	East	8	19.0%
Other	2	8.3%	Darkness/Lighted road	7	29.2%	Snow or slush	1	4.2%	North	11	26.2%
Rain	2	8.3%	Dawn	1	4.2%	Unknown	2	8.3%	South	9	21.4%

Collision Diagram

1/1/2011 to 12/31/2011

Crash Route: IL043 | From MileStation 23.95 to 23.95 | 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
25	0	0	3	3	19	0	7	0	4	3

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
10-Turning	10	40.0%	Monday	2	8.0%	Midnight	1	4.0%	Passenger	31	62.0%
11-Rear end	10	40.0%	Tuesday	3	12.0%	01 AM	1	4.0%	Pickup	1	2.0%
12-Sideswipe same direction	1	4.0%	Wednesday	7	28.0%	06 AM	1	4.0%	Sport utility vehicle (SUV)	10	20.0%
15-Angle	2	8.0%	Thursday	3	12.0%	07 AM	1	4.0%	Tractor w/ semi-trailer	1	2.0%
1-Pedestrian	1	4.0%	Friday	7	28.0%	11 AM	4	16.0%	Truck - single unit	1	2.0%
6-Fixed object	1	4.0%	Saturday	2	8.0%	1 PM	1	4.0%	Unknown/NA	1	2.0%
TOTAL:	25		Sunday	1	4.0%	2 PM	2	8.0%	Van/mini van	5	10.0%
			TOTAL:	25		3 PM	2	8.0%	TOTAL:	50	
						4 PM	2	8.0%			
						5 PM	2	8.0%			
						6 PM	4	16.0%			
						7 PM	3	12.0%			
						8 PM	1	4.0%			
						TOTAL:	25				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	20	80.0%	Darkness/Lighted road	8	32.0%	Dry	19	76.0%	East	9	18.0%
Rain	3	12.0%	Daylight	16	64.0%	Unknown	2	8.0%	North	14	28.0%
Snow	2	8.0%	Dusk	1	4.0%	Wet	4	16.0%	Northeast	1	2.0%
TOTAL:	25		TOTAL:	25		TOTAL:	25		Northwest	1	2.0%
									South	15	30.0%

Collision Diagram

1/1/2012 to 12/31/2012

Crash Route: IL043 | From MileStation 23.95 to 23.95 | 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
<u>27</u>	<u>0</u>	<u>1</u>	<u>2</u>	<u>7</u>	<u>17</u>	<u>0</u>	<u>16</u>	<u>1</u>	<u>5</u>	<u>10</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	4	14.8%	Monday	5	18.5%	01 AM	1	3.7%	Passenger	35	60.3%
Rear End	9	33.3%	Tuesday	3	11.1%	06 AM	2	7.4%	Pickup	5	8.6%
Turning	14	51.9%	Wednesday	5	18.5%	07 AM	1	3.7%	SUV	11	19.0%
TOTAL:	27		Thursday	3	11.1%	08 AM	2	7.4%	Tractor With Semi-Trailer	2	3.4%
			Friday	3	11.1%	10 AM	1	3.7%	Van/Mini-Van	5	8.6%
			Saturday	6	22.2%	11 AM	2	7.4%	TOTAL:	58	
			Sunday	2	7.4%	Noon	3	11.1%			
			TOTAL:	27		1 PM	2	7.4%			
						2 PM	1	3.7%			
						3 PM	1	3.7%			
						4 PM	3	11.1%			
						5 PM	1	3.7%			
						7 PM	2	7.4%			
						8 PM	2	7.4%			
						9 PM	1	3.7%			
						10 PM	2	7.4%			
						TOTAL:	27				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	22	81.5%	Darkness	2	7.4%	Dry	21	77.8%	East	8	13.8%
Rain	3	11.1%	Darkness, Lighted Road	5	18.5%	Snow or Slush	1	3.7%	North	14	24.1%

Collision Diagram

1/1/2013 to 12/31/2013

Crash Route: IL043 | From MileStation 23.95 to 23.95 | 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
<u>26</u>	<u>0</u>	<u>0</u>	<u>3</u>	<u>6</u>	<u>17</u>	<u>0</u>	<u>13</u>	<u>0</u>	<u>3</u>	<u>10</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	3	11.5%	Monday	5	19.2%	01 AM	1	3.8%	Passenger	41	71.9%
Pedalcyclist	1	3.8%	Tuesday	5	19.2%	02 AM	1	3.8%	Pickup	1	1.8%
Rear End	8	30.8%	Wednesday	3	11.5%	07 AM	2	7.7%	SUV	7	12.3%
Sideswipe Same Direction	1	3.8%	Thursday	1	3.8%	09 AM	1	3.8%	Unknown	2	3.5%
Turning	13	50.0%	Friday	4	15.4%	11 AM	1	3.8%	Van/Mini-Van	6	10.5%
TOTAL:	26		Saturday	6	23.1%	Noon	1	3.8%	TOTAL:	57	
			Sunday	2	7.7%	1 PM	2	7.7%			
			TOTAL:	26		2 PM	2	7.7%			
						3 PM	3	11.5%			
						5 PM	1	3.8%			
						6 PM	1	3.8%			
						7 PM	3	11.5%			
						8 PM	2	7.7%			
						9 PM	2	7.7%			
						10 PM	2	7.7%			
						11 PM	1	3.8%			
						TOTAL:	26				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	19	73.1%	Darkness/ Lighted Road	10	38.5%	Dry	18	69.2%	East	13	22.8%
Rain	3	11.5%	Daylight	12	46.2%	Snow or Slush	1	3.8%	North	9	15.8%

Collision Diagram

1/1/2014 to 12/31/2014

Crash Route: IL043 | From MileStation 23.95 to 23.95 | 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
<u>31</u>	<u>0</u>	<u>1</u>	<u>9</u>	<u>1</u>	<u>20</u>	<u>0</u>	<u>17</u>	<u>1</u>	<u>12</u>	<u>4</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	1	3.2%	Monday	5	16.1%	01 AM	1	3.2%	Passenger	31	50.0%
Pedalcyclist	1	3.2%	Tuesday	3	9.7%	03 AM	2	6.5%	Pickup	1	1.6%
Pedestrian	2	6.5%	Wednesday	3	9.7%	05 AM	1	3.2%	SUV	23	37.1%
Rear End	11	35.5%	Thursday	4	12.9%	06 AM	1	3.2%	Tractor With Semi-Trailer	1	1.6%
Turning	16	51.6%	Friday	4	12.9%	07 AM	1	3.2%	Truck Single Unit	1	1.6%
TOTAL:	31		Saturday	7	22.6%	09 AM	2	6.5%	Unknown	1	1.6%
			Sunday	5	16.1%	10 AM	1	3.2%	Van/Mini-Van	4	6.5%
			TOTAL:	31		11 AM	2	6.5%	TOTAL:	62	
						1 PM	3	9.7%			
						2 PM	1	3.2%			
						3 PM	2	6.5%			
						4 PM	1	3.2%			
						5 PM	4	12.9%			
						6 PM	3	9.7%			
						7 PM	1	3.2%			
						8 PM	1	3.2%			
						9 PM	1	3.2%			
						10 PM	3	9.7%			
						TOTAL:	31				

Coordinate Collision Diagram Report

1/1/2015 to 12/31/2015

For XCoordinate 2940371.48207884 : YCoordinate 1896864.67583393 | Foot Tolerance : 250 | 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
<u>36</u>	<u>0</u>	<u>0</u>	<u>5</u>	<u>5</u>	<u>26</u>	<u>0</u>	<u>13</u>	<u>0</u>	<u>7</u>	<u>6</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	1	2.8%	Monday	5	13.9%	02 AM	1	2.8%	Motor Driven Cycle	1	1.4%
Fixed Object	3	8.3%	Tuesday	3	8.3%	04 AM	3	8.3%	Motorcycle (Over 150cc)	1	1.4%
Head On	1	2.8%	Wednesday	8	22.2%	08 AM	1	2.8%	Other Vehicle With Trailer	1	1.4%
Pedalcyclist	1	2.8%	Thursday	6	16.7%	09 AM	1	2.8%	Passenger	46	64.8%
Pedestrian	1	2.8%	Friday	4	11.1%	10 AM	2	5.6%	Pickup	5	7.0%
Rear End	10	27.8%	Saturday	7	19.4%	Noon	6	16.7%	SUV	9	12.7%
Sideswipe Same Direction	2	5.6%	Sunday	3	8.3%	1 PM	5	13.9%	Truck Single Unit	2	2.8%
Turning	17	47.2%	TOTAL:	36		2 PM	4	11.1%	Unknown	1	1.4%
TOTAL:	36					4 PM	3	8.3%	Van/Mini-Van	5	7.0%
						5 PM	3	8.3%	TOTAL:	71	
						6 PM	3	8.3%			
						7 PM	2	5.6%			
						10 PM	2	5.6%			
						TOTAL:	36				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	27	75.0%	Darkness	2	5.6%	Dry	28	77.8%	East	15	21.1%
Cloudy/Overcast	2	5.6%	Darkness, Lighted Road	5	13.9%	Snow or Slush	1	2.8%	North	17	23.9%
Rain	6	16.7%						Northeast	1	1.4%	

Coordinate Collision Diagram Report

1/1/2016 to 12/31/2016

For XCoordinate 2940351.478923 : YCoordinate 1896843.46978 | Foot Tolerance : 250 | 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
<u>36</u>	<u>0</u>	<u>2</u>	<u>2</u>	<u>10</u>	<u>22</u>	<u>0</u>	<u>34</u>	<u>3</u>	<u>7</u>	<u>24</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	4	11.1%	Monday	2	5.6%	03 AM	1	2.8%	Bus Over 15 Passengers	1	1.4%
Overtaken	1	2.8%	Tuesday	6	16.7%	07 AM	2	5.6%	Motorcycle (Over 150cc)	1	1.4%
Pedalcyclist	2	5.6%	Wednesday	4	11.1%	08 AM	2	5.6%	Passenger	38	52.1%
Rear End	11	30.6%	Thursday	4	11.1%	09 AM	1	2.8%	Pickup	3	4.1%
Sideswipe Same Direction	3	8.3%	Friday	9	25.0%	10 AM	2	5.6%	SUV	22	30.1%
Turning	15	41.7%	Saturday	4	11.1%	11 AM	2	5.6%	Truck Single Unit	1	1.4%
TOTAL:	36		Sunday	7	19.4%	Noon	2	5.6%	Unknown	3	4.1%
			TOTAL:	36		1 PM	4	11.1%	Van/Mini-Van	4	5.5%
						2 PM	1	2.8%	TOTAL:	73	
						3 PM	4	11.1%			
						4 PM	3	8.3%			
						5 PM	3	8.3%			
						6 PM	1	2.8%			
						7 PM	1	2.8%			
						8 PM	3	8.3%			
						9 PM	3	8.3%			
						11 PM	1	2.8%			
						TOTAL:	36				

Coordinate Collision Diagram Report

1/1/2017 to 12/31/2017

For XCoordinate 2940351.48015 : YCoordinate 1896843.447858 | Foot Tolerance : 250 | 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
<u>22</u>	<u>0</u>	<u>2</u>	<u>2</u>	<u>1</u>	<u>17</u>	<u>0</u>	<u>6</u>	<u>2</u>	<u>2</u>	<u>2</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	1	4.5%	Monday	2	9.1%	03 AM	2	9.1%	Passenger	27	64.3%
Fixed Object	1	4.5%	Tuesday	2	9.1%	04 AM	1	4.5%	Pickup	1	2.4%
Pedalcyclist	1	4.5%	Wednesday	5	22.7%	06 AM	2	9.1%	SUV	8	19.0%
Pedestrian	1	4.5%	Thursday	6	27.3%	09 AM	1	4.5%	Unknown	4	9.5%
Rear End	7	31.8%	Friday	3	13.6%	10 AM	1	4.5%	Van/Mini-Van	2	4.8%
Turning	11	50.0%	Saturday	2	9.1%	11 AM	2	9.1%	TOTAL:	42	
TOTAL:	22		Sunday	2	9.1%	Noon	3	13.6%			
			TOTAL:	22		1 PM	2	9.1%			
						2 PM	1	4.5%			
						4 PM	1	4.5%			
						6 PM	2	9.1%			
						7 PM	1	4.5%			
						8 PM	1	4.5%			
						10 PM	1	4.5%			
						11 PM	1	4.5%			
						TOTAL:	22				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	15	68.2%	Darkness, Lighted Road	7	31.8%	Dry	17	77.3%	East	10	23.8%

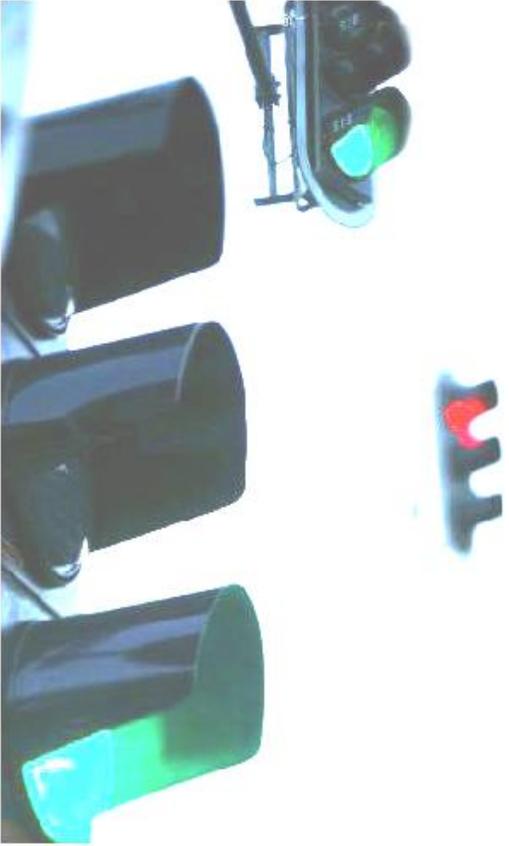
Coordinate Collision Diagram Report

1/1/2018 to 12/31/2018

For XCoordinate 2940351.48015 : YCoordinate 1896843.447858 | Foot Tolerance : 250 | 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
<u>35</u>	<u>0</u>	<u>1</u>	<u>5</u>	<u>5</u>	<u>24</u>	<u>0</u>	<u>16</u>	<u>1</u>	<u>6</u>	<u>9</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	4	11.4%	Monday	6	17.1%	Midnight	3	8.6%	Passenger	50	71.4%
Other Non-Collision	1	2.9%	Tuesday	5	14.3%	01 AM	1	2.9%	Pickup	3	4.3%
Pedestrian	1	2.9%	Wednesday	8	22.9%	06 AM	3	8.6%	SUV	13	18.6%
Rear End	9	25.7%	Thursday	5	14.3%	07 AM	1	2.9%	Truck Single Unit	1	1.4%
Sideswipe Same Direction	3	8.6%	Friday	2	5.7%	08 AM	2	5.7%	Van/Mini-Van	3	4.3%
Turning	17	48.6%	Saturday	3	8.6%	09 AM	1	2.9%	TOTAL:	70	
TOTAL:	35		Sunday	6	17.1%	10 AM	6	17.1%			
			TOTAL:	35		11 AM	2	5.7%			
						1 PM	4	11.4%			
						2 PM	3	8.6%			
						3 PM	1	2.9%			
						4 PM	1	2.9%			
						5 PM	1	2.9%			
						6 PM	1	2.9%			
						7 PM	1	2.9%			
						8 PM	2	5.7%			
						10 PM	2	5.7%			
						TOTAL:	35				



3. Traffic Volume

The table below shows a summary of the Average Daily Traffic Count (ADTC) at the intersection of **IL RT. 43 (Harlem Ave) and 22nd St (Cermak Rd)** over a span of 12 years.

The history of available ADTC on each approach was obtained from the IDOT website per the RLR Guideline document published by the IDOT and recorded in bold below.

(<http://www.gettingaroundillinois.com/gai.htm?mt=aadt>)

- The data from 2007-2010 shows the period prior to the installation of the RLR camera.
- The data from 2011* shows the year in which the RLR camera was originally installed on Northbound in Berwyn.
- The data from 2014* shows the year in which the RLR camera was installed on Southbound in North Riverside.
- The data from 2015* shows the year in which the RLR camera was installed on Eastbound in North Riverside and Westbound in Berwyn.
- The data from 2012-2013 and 2016-2018 shows the period following the installation.

		Before the RLR Camera Installation				NB	After the RLR Camera Installation						
		07	08	09	10		12	13	SB	EB, WB	14	15	16
Year	Type	07	08	09	10	11	12	13	14	15	16	17	18
	Eastbound	29,900	29,900	26,800	38,100	38,100	38,100	38,100	30,100	30,100	30,100	30,100	30,600
	Westbound	26,600	26,600	26,600	32,600	32,600	32,600	32,600	30,300	30,300	30,300	30,300	29,400
	Northbound	33,700	33,700	31,800	31,800	35,800	35,800	29,200	29,200	30,200	30,200	35,200	35,200
	Southbound	36,300	36,300	34,700	34,700	33,600	33,600	33,200	33,200	30,200	30,200	34,000	34,000
	Combined	126,500	126,500	119,900	137,200	140,100	140,100	133,100	122,800	120,800	120,800	129,600	129,200
	Combined Average	127,525					130,560						

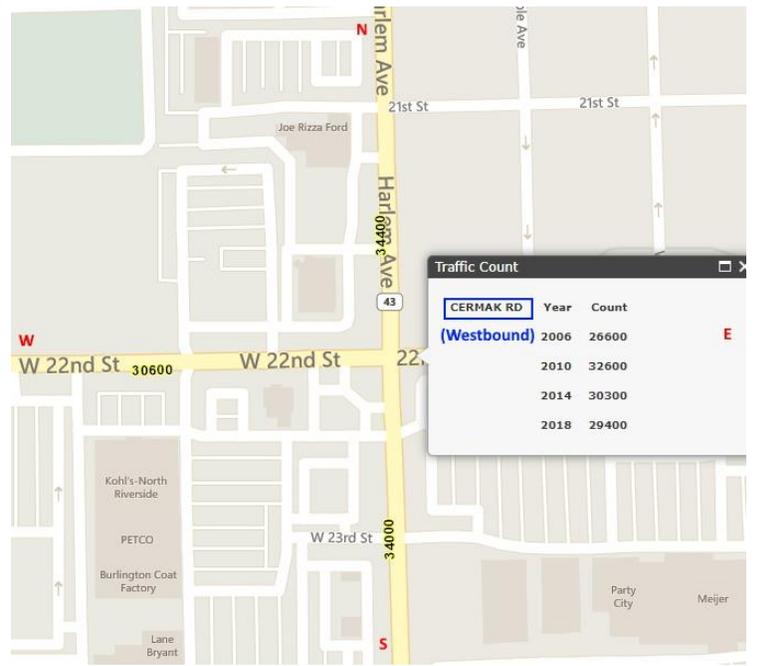
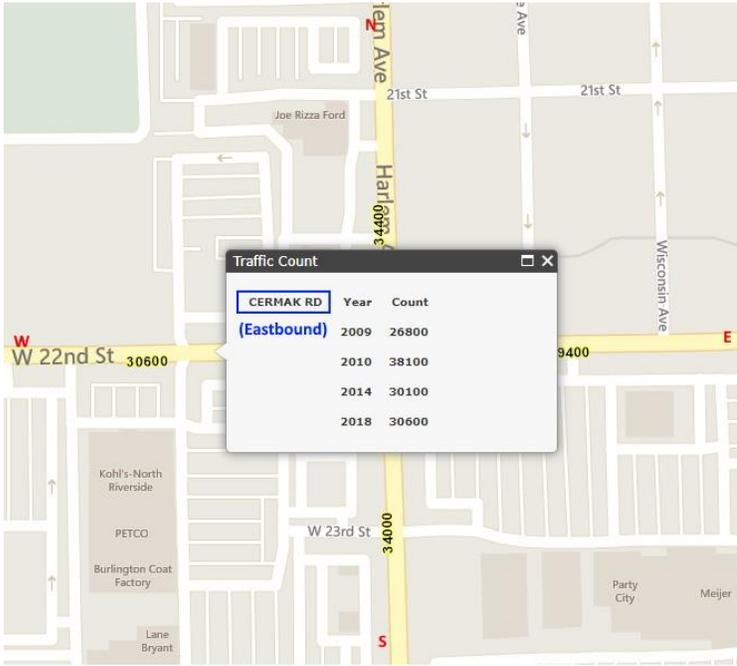
From 2007-2010, prior to the RLR camera installation, the combined ADTC average was 127,525.

From 2012-2013 and from 2016-2018, post the RLR camera installation, the combined ADTC average was 130,560, resulting in an increase of 2.38%.

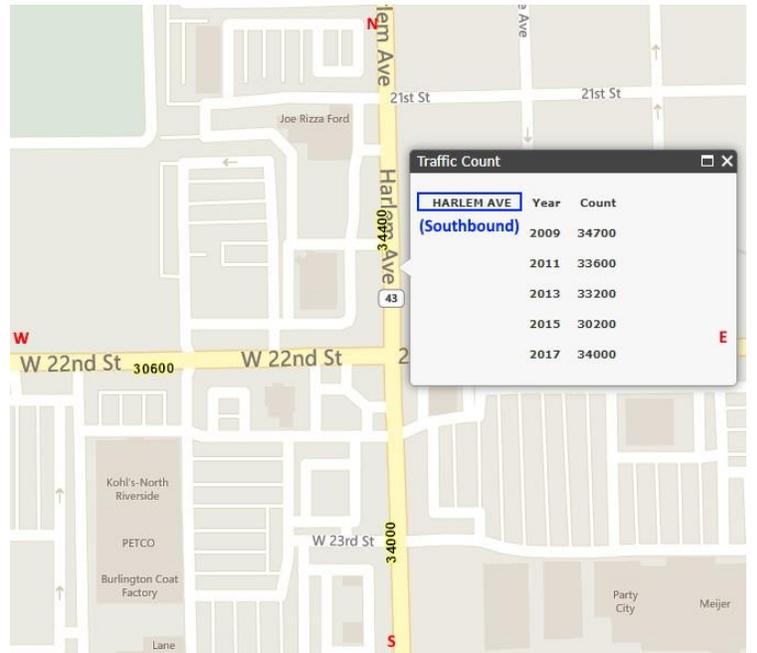
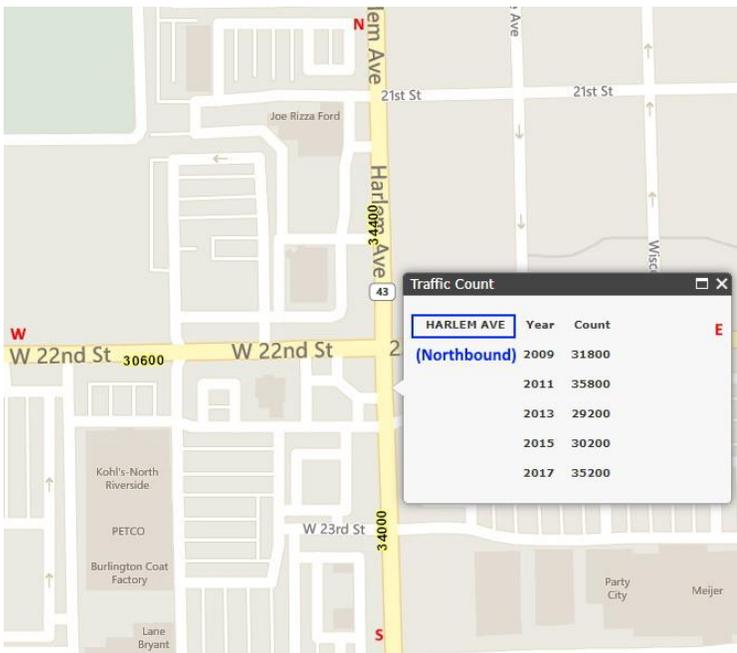
The following pages provide the screenshots of ADTC data from 2007-2018 obtained from the IDOT's website.

*Data from 2011 and 2014-2015 has been discarded since the IDOT disregards any data from the year that a major road way improvement takes place - this includes traffic signal modernization and installation of a new RLR camera.

Eastbound and Westbound ADTC



Northbound and Southbound ADTC







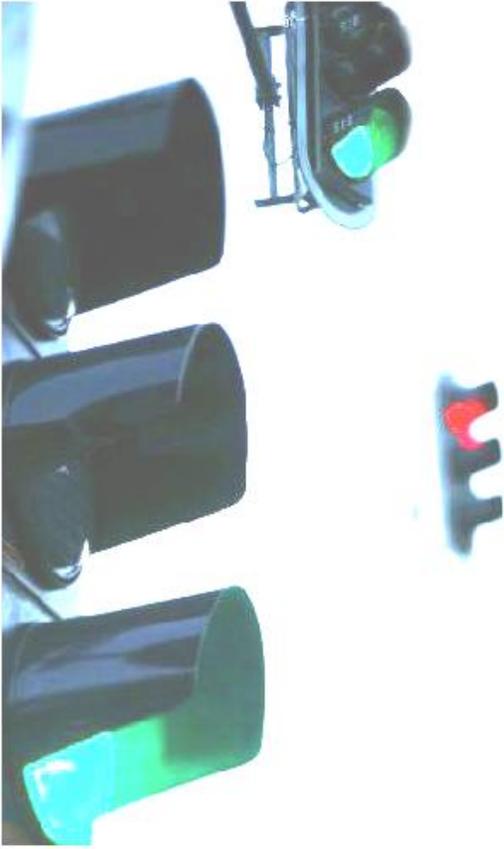
4. Summary of Adjudication

The summary of tickets contested “in person” and “by mail” for the Northbound approach of **IL RT. 43 (Harlem Ave) and 22nd St (Cermak Rd)** from 2015 to 2018.

	2015	2016	2017	2018
In Person	1244	1178	892	577
By Mail	835	789	539	289

The summary of tickets contested “in person” and “by mail” for the Westbound approach of **IL RT. 43 (Harlem Ave) and 22nd St (Cermak Rd)** from 2016 to 2018.

	2016	2017	2018
In Person	868	726	666
By Mail	486	415	368



5. Report Summary and Recommendation

The **City of Berwyn** uses state-of-the-art digital cameras provided by SafeSpeed, LLC to execute its RLR Enforcement Safety Program. The citation and adjudication process administered by the **City of Berwyn** is conducted in a courteous, professional and timely manner in compliance with the RLR regulations laid out by the Illinois Department of Transportation District 1 Bureau of Traffic Operations.

In 2011, the **City of Berwyn** received approval from the Illinois Department of Transportation (IDOT) to install a Red Light Running (RLR) camera at the **Northbound** approach of the intersection **IL RT. 43 (Harlem Ave) and 22nd St (Cermak Rd)**. In 2015, the IDOT approved installing an additional RLR camera at the **Westbound** approach at the intersection.

In order to keep a close eye on the crash trends year after year at this intersection, a merged follow-up report for **Westbound** and **Northbound** has been prepared. Also, when compiling crash data, the IDOT disregards any data from any years in which major road way improvements take place - this includes traffic signal modernization and installation of new RLR camera(s). Therefore, below data have been disregarded in this report:

- The data from 2011 shows the year in which the RLR camera was originally installed at Northbound in Berwyn.
- The data from 2014 shows the year in which the RLR camera was installed at Southbound in North Riverside.
- The data from 2015 shows the year in which the RLR camera was installed at Eastbound in North Riverside and Westbound in Berwyn.

From 2007-2010, prior to the RLR camera installation, the combined ADTC average was 127,525. From 2012-2013 and from 2016-2018, post the RLR camera installation, the combined ADTC average was 130,560, resulting in an increase of 2.38%. (See tab 3)

From 2007-2010, prior to the RLR camera installation, there were 145 total crashes, an average of 36.25 crashes per year. From 2012-2013 and 2016-2018, post the RLR camera installation, there were 146 total crashes, an average of 29.2 crashes per year, resulting in a 19.45% reduction in overall crashes in direct comparison with the time period aforementioned. (See tab 2)

After analyzing all of the available data, we believe that the RLR cameras currently in operation at the **Westbound and Northbound** approaches of **IL RT. 43 (Harlem Ave) and 22nd St (Cermak Rd)** in the **City of Berwyn** still continue to make a positive impact on improving traffic safety.

Since enhanced traffic safety is the principal aim of RLR camera enforcement programs, RLRC systems should remain at this intersection as an integral part of a traffic system process that incorporates public education, enforcement and engineering.