



# Foster Ave and Harlem Ave

## <Eastbound>



# Harwood Heights, IL

## RLR Follow-Up

### Evaluation Report

(Amendatory Act of the 103rd General Assembly)

---

**Reference No: 016-53723**

January 2024



## Harwood Heights Police Department

**John DeVries**  
Chief of Police

7300 W. Wilson Avenue  
Harwood Heights, IL 60706  
Phone: (708) 867-4353  
Email:  
devriesj@harwoodheights.org  
police@harwoodheights.org

January 25, 2024

Jonathan E. Karabowicz, P.E.  
Acting Area Permit Engineer

Illinois Department of Transportation  
Bureau of Traffic  
201 West Center Court  
Schaumburg, Illinois 60196-1096

Re: RLR 1 Year Follow-Up Evaluation Report  
Foster Avenue and Harlem Avenue (Eastbound)  
Village of Harwood Heights  
Ref #: 016-53723

Dear Mr. Karabowicz,

Please find enclosed a copy of the 1 Year Follow-Up Evaluation Report for the intersection of Foster Avenue and Harlem Avenue, Harwood Heights, Illinois.

The Village of Harwood Heights has been diligently submitting all previously required follow up reports. This report was prepared in compliance with the new law, the amendatory Act of the 103<sup>rd</sup> General Assembly.

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

If you have any questions with regard to this submittal or require any additional information, please feel free to contact us at 708-867-4353, devriesj@harwoodheights.org.

A handwritten signature in dark ink, appearing to read "John DeVries". The signature is written in a cursive style with a large loop at the end.

On behalf of the Village of Harwood Heights  
John DeVries  
Chief of Police

## 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

# **Table of Contents**

1. RLR Camera Location, Live Date,  
System Manufacturer and Contractors
2. RLR Crash Data and Analysis
3. Traffic Volume
4. Summary of Adjudication
5. Report Summary and Recommendation



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

This report is prepared according to the amendatory Act of the 103<sup>rd</sup> General Assembly (k-8). Please note that 2023 data was not included in this report as 2023 crash data has not yet been released from the IDOT.

In 2012, the **Village of Harwood Heights** received approval from the Illinois Department of Transportation (IDOT) to install a Red Light Running (RLR) camera on the **Eastbound** approach at the intersection of **Foster Ave and Harlem Ave**.

- Date at which the camera went live on the eastbound approach: **12/2012**
- Date on which the 1 Year Follow-Up Evaluation Report was submitted to the IDOT: **01/2015**
- Date on which the 3 Year Follow-Up Evaluation Report was submitted to the IDOT: **12/2018**
- Date on which the 2<sup>nd</sup> 3 Year Follow-Up Evaluation Report was submitted to the IDOT: **05/2022**

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 are the RLR camera system manufacturer and contractor information.

<p>RLR Camera System Manufacturer</p> <p><b>AllTech Tracking, LLC</b> 150 North Wacker Drive Floor 8 Chicago, IL 60606</p> <p>Phone: (877) 237-2331 Fax: (877) 237-2302 Email: <a href="mailto:info@alltechtracking.com">info@alltechtracking.com</a></p> <p>Key Contact: Ryan Kim, P.E. Phone: (312) 924-7248 Email: <a href="mailto:rkim@alltechtracking.com">rkim@alltechtracking.com</a></p>	<p>Electrical Contractor</p> <p><b>Meade Electric Company</b> 625 Willowbrook Center Parkway Willowbrook, IL 60527</p> <p>Phone: (708) 588-2500 Fax: (708) 588-2501 Email: <a href="mailto:info@meadeelectric.com">info@meadeelectric.com</a> Web: <a href="http://meadeelectric.com">meadeelectric.com</a></p> <p>Key Contact: Mr. Michael Knutson Phone: (708) 588-2500 Email: <a href="mailto:mkk@meade100.com">mkk@meade100.com</a></p>
--	---



## 2. RLR Crash Data and Analysis

The table below shows a summary of motor vehicle crashes at the intersection of **Foster Ave and Harlem Ave** over a span of 14 years\*.

	Angle	Head On	Turning	Rear End	Pedalcyclist /Pedestrian	Sideswipe	Fixed Object	Total
<b>2009</b>	2	1	7	6	1	3	0	20
<b>2010</b>	0	0	3	8	0	0	0	11
<b>2011</b>	1	0	3	8	1	0	0	13
<b>2012</b>	<b>4</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>
<b>2013</b>	0	0	2	1	1	0	0	4
<b>2014</b>	0	0	2	4	0	0	0	6
<b>2015</b>	2	0	3	2	0	2	1	10
<b>2016</b>	0	0	5	2	0	0	0	7
<b>2017</b>	0	0	1	2	0	1	0	4
<b>2018</b>	3	0	1	5	1	0	0	10
<b>2019</b>	0	0	2	4	1	1	0	8
<b>2020</b>	1	0	1	0	0	1	0	3
<b>2021</b>	2	0	2	2	0	0	0	6
<b>2022</b>	0	0	1	3	0	0	0	4

The data from 2009-2011 shows the period prior to the installation of a RLR camera.

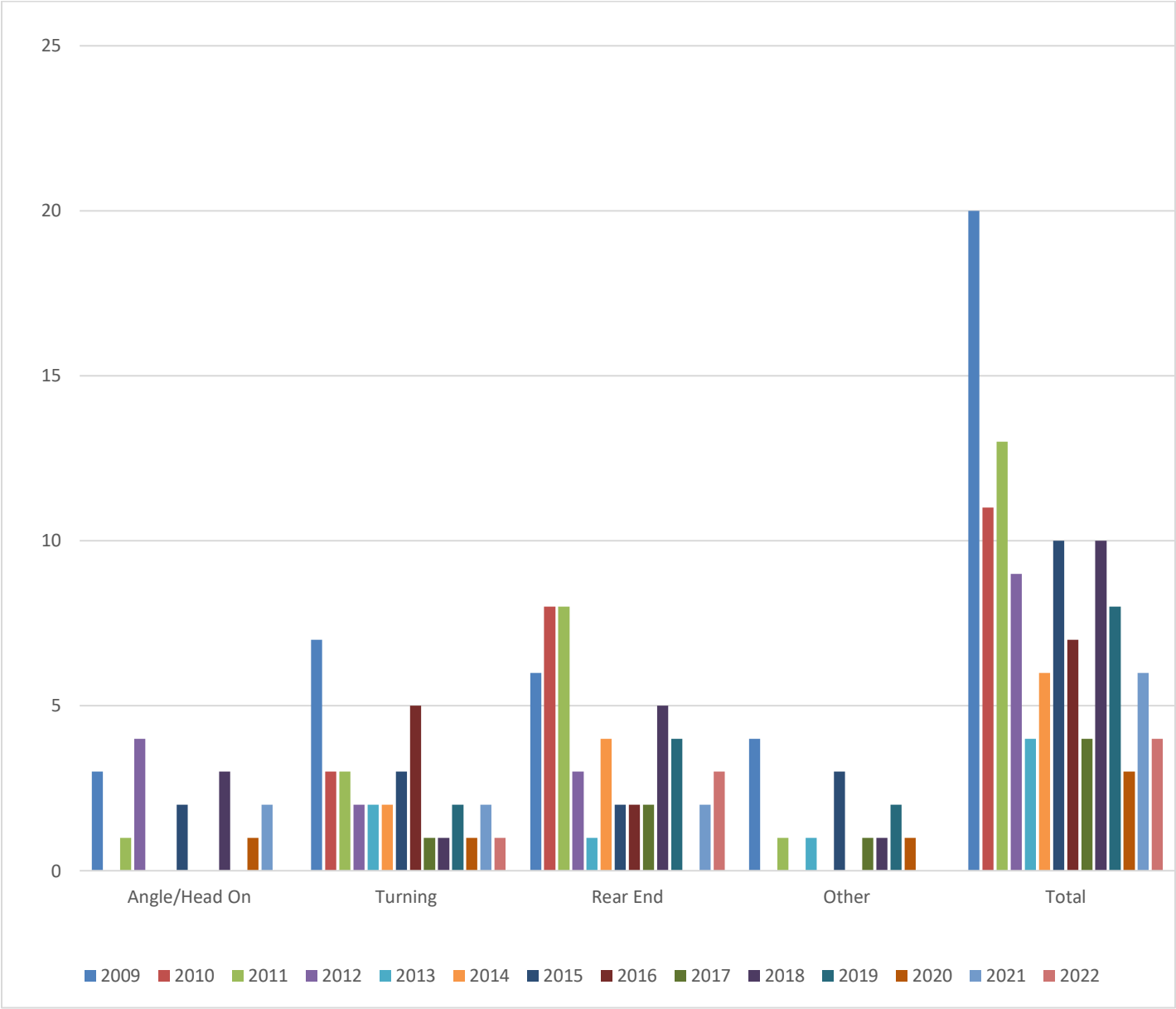
The data from 2012 shows the year in which the camera was installed.

The data from 2013-2022 shows the period following the installation.

\* DISCLAIMER: The motor vehicle crash data referenced herein was provided by the Illinois Department of Transportation. 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.



The Chart below shows the trend of each crash type from 2009-2022.



	Year \ Type	Angle/ Head On	Turning	Rear End	Other*	Total	Yearly Average
<b>Before Installation</b>	<b>2009</b>	3	7	6	4	<b>20</b>	<b>14.67</b>
	<b>2010</b>	0	3	8	0	<b>11</b>	
	<b>2011</b>	1	3	8	1	<b>13</b>	
	<b>2012</b>	4	2	3	0	<b>9</b>	
<b>After Installation</b>	<b>2013</b>	0	2	1	1	<b>4</b>	<b>6.2</b>
	<b>2014</b>	0	2	4	0	<b>6</b>	
	<b>2015</b>	2	3	2	3	<b>10</b>	
	<b>2016</b>	0	5	2	0	<b>7</b>	
	<b>2017</b>	0	1	2	1	<b>4</b>	
	<b>2018</b>	3	1	5	1	<b>10</b>	
	<b>2019</b>	0	2	4	2	<b>8</b>	
	<b>2020</b>	1	1	0	1	<b>3</b>	
	<b>2021</b>	2	2	2	0	<b>6</b>	
	<b>2022</b>	0	1	3	0	<b>4</b>	

\* Other crashes include: Pedalcyclist/Pedestrian, Sideswipe and Fixed Object.

From the years 2009-2011, prior to RLR camera installation, there were 44 total crashes; this averages out to 14.67 crashes a year.

From 2013-2022, post RLR camera installation, there were 62 total crashes; this averages out to 6.2 crashes per year - a 57.73% reduction of overall crashes in direct comparison with the time period aforementioned.

The following pages contain crash data summary pages from 2009-2022. The complete crash data can be obtained by contacting the IDOT via [DOT.DTS.DataRequests@illinois.gov](mailto:DOT.DTS.DataRequests@illinois.gov).



### Collision Diagram

1/1/2009 to 12/31/2009

Crash Route: IL043 | From MileStation 32.58 to 32.58 | 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>20</u>	<u>0</u>	<u>2</u>	<u>3</u>	<u>1</u>	<u>14</u>	<u>0</u>	<u>10</u>	<u>2</u>	<u>6</u>	<u>2</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
10-Turning	7	35.0%	Monday	2	10.0%	06 AM	1	5.0%	Passenger	31	70.5%
11-Rear end	6	30.0%	Tuesday	1	5.0%	07 AM	2	10.0%	Pickup	3	6.8%
12-Sideswipe same direction	2	10.0%	Wednesday	4	20.0%	10 AM	5	25.0%	Sport utility vehicle (SUV)	7	15.9%
13-Sideswipe opp. direction	1	5.0%	Thursday	2	10.0%	11 AM	1	5.0%	Truck – single unit	1	2.3%
14-Head on	1	5.0%	Friday	6	30.0%	1 PM	1	5.0%	Van/mini van	2	4.5%
15-Angle	2	10.0%	Saturday	2	10.0%	3 PM	1	5.0%	<b>TOTAL:</b>	<b>44</b>	
1-Pedestrian	1	5.0%	Sunday	3	15.0%	4 PM	3	15.0%			
<b>TOTAL:</b>	<b>20</b>		<b>TOTAL:</b>	<b>20</b>		5 PM	2	10.0%			
						7 PM	2	10.0%			
						9 PM	1	5.0%			
						10 PM	1	5.0%			
						<b>TOTAL:</b>	<b>20</b>				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	16	80.0%	Darkness	1	5.0%	Dry	16	80.0%	East	2	4.5%
Rain	2	10.0%	Darkness/Lighted road	2	10.0%	Snow or slush	1	5.0%	North	18	40.9%
Snow	1	5.0%	Daylight	15	75.0%	Unknown	1	5.0%	Northeast	2	4.5%
Unknown	1	5.0%	Dusk	1	5.0%	Wet	2	10.0%	Northwest	1	2.3%
<b>TOTAL:</b>	<b>20</b>		Unknown	1	5.0%	<b>TOTAL:</b>	<b>20</b>		South	9	20.5%
			<b>TOTAL:</b>	<b>20</b>					Southeast	2	4.5%
									Unknown	2	4.5%



### Collision Diagram

1/1/2010 to 12/31/2010

Crash Route: IL043 | From MileStation 32.58 to 32.58 | 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>11</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>2</u>	<u>8</u>	<u>0</u>	<u>5</u>	<u>0</u>	<u>1</u>	<u>4</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
10-Turning	3	27.3%	Monday	4	36.4%	07 AM	1	9.1%	Passenger	18	75.0%
11-Rear end	8	72.7%	Thursday	1	9.1%	10 AM	1	9.1%	Sport utility vehicle (SUV)	3	12.5%
<b>TOTAL:</b>	<b>11</b>		Friday	3	27.3%	Noon	1	9.1%	Van/mini van	3	12.5%
			Saturday	2	18.2%	1 PM	3	27.3%	<b>TOTAL:</b>	<b>24</b>	
			Sunday	1	9.1%	3 PM	2	18.2%			
			<b>TOTAL:</b>	<b>11</b>		4 PM	1	9.1%			
						6 PM	1	9.1%			
						7 PM	1	9.1%			
						<b>TOTAL:</b>	<b>11</b>				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	9	81.8%	Darkness/Lighted road	1	9.1%	Dry	10	90.9%	East	7	29.2%
Rain	1	9.1%	Daylight	10	90.9%	Wet	1	9.1%	North	6	25.0%
Sleet/hail	1	9.1%	<b>TOTAL:</b>	<b>11</b>		<b>TOTAL:</b>	<b>11</b>		Northeast	1	4.2%
<b>TOTAL:</b>	<b>11</b>								South	6	25.0%
									West	4	16.7%
									<b>TOTAL:</b>	<b>24</b>	



### Collision Diagram

1/1/2011 to 12/31/2011

Crash Route: IL043 | From MileStation 32.58 to 32.58 | 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>13</u>	<u>0</u>	<u>0</u>	<u>3</u>	<u>1</u>	<u>9</u>	<u>0</u>	<u>4</u>	<u>0</u>	<u>3</u>	<u>1</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
10-Turning	3	23.1%	Monday	1	7.7%	02 AM	1	7.7%	Motor driven cycle	1	3.8%
11-Rear end	8	61.5%	Tuesday	1	7.7%	04 AM	1	7.7%	Passenger	18	69.2%
15-Angle	1	7.7%	Wednesday	2	15.4%	06 AM	1	7.7%	Pickup	1	3.8%
1-Pedestrian	1	7.7%	Thursday	2	15.4%	08 AM	1	7.7%	Sport utility vehicle (SUV)	4	15.4%
<b>TOTAL:</b>	<b>13</b>		Friday	3	23.1%	10 AM	1	7.7%	Van/mini van	2	7.7%
			Saturday	3	23.1%	11 AM	3	23.1%	<b>TOTAL:</b>	<b>26</b>	
			Sunday	1	7.7%	2 PM	1	7.7%			
			<b>TOTAL:</b>	<b>13</b>		3 PM	1	7.7%			
					4 PM	1	7.7%				
					8 PM	1	7.7%				
					11 PM	1	7.7%				
					<b>TOTAL:</b>	<b>13</b>					
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	10	76.9%	Darkness/Lighted road	4	30.8%	Dry	11	84.6%	East	5	19.2%
Rain	1	7.7%	Daylight	8	61.5%	Unknown	1	7.7%	North	7	26.9%
Unknown	2	15.4%	Unknown	1	7.7%	Wet	1	7.7%	Northwest	1	3.8%
<b>TOTAL:</b>	<b>13</b>		<b>TOTAL:</b>	<b>13</b>		<b>TOTAL:</b>	<b>13</b>		South	8	30.8%
									Southeast	1	3.8%
									Unknown	1	3.8%
									West	3	11.5%



### Collision Diagram

1/1/2012 to 12/31/2012

Crash Route: IL043 | From MileStation 32.58 to 32.58 | 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>9</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>8</u>	<u>0</u>	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	4	44.4%	Wednesday	1	11.1%	08 AM	2	22.2%	Passenger	15	75.0%
Rear End	3	33.3%	Thursday	4	44.4%	10 AM	1	11.1%	Pickup	1	5.0%
Turning	2	22.2%	Saturday	2	22.2%	11 AM	1	11.1%	SUV	1	5.0%
TOTAL:	9		Sunday	2	22.2%	Noon	1	11.1%	Truck Single Unit	1	5.0%
			TOTAL:	9	1 PM	2	22.2%	Van/Mini-Van	2	10.0%	
					7 PM	2	22.2%	TOTAL:	20		
					TOTAL:	9					
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	5	55.6%	Darkness, Lighted Road	2	22.2%	Dry	6	66.7%	East	6	30.0%
Other	1	11.1%	Daylight	7	77.8%	Unknown	1	11.1%	North	7	35.0%
Rain	3	33.3%	TOTAL:	9		Wet	2	22.2%	South	2	10.0%
TOTAL:	9					TOTAL:	9		West	5	25.0%
									TOTAL:	20	



### Collision Diagram

1/1/2013 to 12/31/2013

Crash Route: IL043 | From MileStation 32.58 to 32.58 | 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	0	1	3	0	1	0	0	1

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Pedalcyclist	1	25.0%	Wednesday	1	25.0%	07 AM	1	25.0%	Passenger	2	28.6%
Rear End	1	25.0%	Thursday	1	25.0%	Noon	2	50.0%	SUV	3	42.9%
Turning	2	50.0%	Saturday	1	25.0%	3 PM	1	25.0%	Van/Mini-Van	2	28.6%
<b>TOTAL:</b>	<b>4</b>		Sunday	1	25.0%	<b>TOTAL:</b>	<b>4</b>		<b>TOTAL:</b>	<b>7</b>	
			<b>TOTAL:</b>	<b>4</b>							

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	3	75.0%	Daylight	4	100.0%	Dry	3	75.0%	East	1	14.3%
Rain	1	25.0%	<b>TOTAL:</b>	<b>4</b>		Wet	1	25.0%	North	2	28.6%
<b>TOTAL:</b>	<b>4</b>					<b>TOTAL:</b>	<b>4</b>		Southeast	1	14.3%
									Southwest	1	14.3%
									West	2	28.6%
									<b>TOTAL:</b>	<b>7</b>	



### Collision Diagram

1/1/2014 to 12/31/2014

Crash Route: IL043 | From MileStation 32.58 to 32.58 | 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	0	0	6	0	0	0	0	0

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Rear End	4	66.7%	Monday	2	33.3%	01 AM	1	16.7%	Passenger	8	66.7%
Turning	2	33.3%	Tuesday	1	16.7%	Noon	2	33.3%	Pickup	2	16.7%
<b>TOTAL:</b>	<b>6</b>		Thursday	1	16.7%	2 PM	1	16.7%	SUV	1	8.3%
			Saturday	1	16.7%	3 PM	1	16.7%	Van/Mini-Van	1	8.3%
			Sunday	1	16.7%	10 PM	1	16.7%	<b>TOTAL:</b>	<b>12</b>	
			<b>TOTAL:</b>	<b>6</b>		<b>TOTAL:</b>	<b>6</b>				
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	4	66.7%	Darkness/ Lighted Road	2	33.3%	Dry	4	66.7%	East	2	16.7%
Other	1	16.7%	Daylight	4	66.7%	Wet	2	33.3%	North	5	41.7%
Snow	1	16.7%	<b>TOTAL:</b>	<b>6</b>		<b>TOTAL:</b>	<b>6</b>		Northwest	1	8.3%
<b>TOTAL:</b>	<b>6</b>								South	3	25.0%
									West	1	8.3%
									<b>TOTAL:</b>	<b>12</b>	





## Coordinate Collision Diagram Report

1/1/2015 to 12/31/2015

For XCoordinate 2938213.28558716 : YCoordinate 1942085.71989364 | 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>10</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>9</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>1</u>	<u>0</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	2	20.0%	Monday	1	10.0%	09 AM	1	10.0%	Farm Equipment	1	5.0%
Fixed Object	1	10.0%	Tuesday	3	30.0%	10 AM	1	10.0%	Passenger	15	75.0%
Rear End	2	20.0%	Thursday	3	30.0%	11 AM	2	20.0%	SUV	1	5.0%
Sideswipe Same Direction	2	20.0%	Friday	1	10.0%	1 PM	1	10.0%	Tractor With Semi-Trailer	1	5.0%
Turning	3	30.0%	Saturday	1	10.0%	2 PM	2	20.0%	Van/Mini-Van	2	10.0%
<b>TOTAL:</b>	<b>10</b>		Sunday	1	10.0%	5 PM	2	20.0%	<b>TOTAL:</b>	<b>20</b>	
			<b>TOTAL:</b>	<b>10</b>		8 PM	1	10.0%			
						<b>TOTAL:</b>	<b>10</b>				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	9	90.0%	Darkness, Lighted Road	2	20.0%	Dry	8	80.0%	East	5	25.0%
Rain	1	10.0%	Daylight	8	80.0%	Wet	2	20.0%	North	2	10.0%
<b>TOTAL:</b>	<b>10</b>		<b>TOTAL:</b>	<b>10</b>		<b>TOTAL:</b>	<b>10</b>		Northwest	1	5.0%
									South	7	35.0%
									West	5	25.0%
									<b>TOTAL:</b>	<b>20</b>	



## Coordinate Collision Diagram Report

1/1/2016 to 12/31/2016

For XCoordinate 2938213.28298317 : YCoordinate 1942085.85802918 | Foot Tolerance : 100 | 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	0	0	7	0	0	0	0	0

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Rear End	2	28.6%	Monday	2	28.6%	11 AM	2	28.6%	Passenger	12	80.0%
Turning	5	71.4%	Tuesday	2	28.6%	1 PM	1	14.3%	SUV	3	20.0%
<b>TOTAL:</b>	<b>7</b>		Wednesday	1	14.3%	3 PM	1	14.3%	<b>TOTAL:</b>	<b>15</b>	
			Saturday	2	28.6%	5 PM	1	14.3%			
			<b>TOTAL:</b>	<b>7</b>		6 PM	1	14.3%			
					11 PM	1	14.3%				
					<b>TOTAL:</b>	<b>7</b>					
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	7	100.0%	Darkness, Lighted Road	1	14.3%	Dry	7	100.0%	East	2	13.3%
<b>TOTAL:</b>	<b>7</b>		Daylight	5	71.4%	<b>TOTAL:</b>	<b>7</b>		North	5	33.3%
			Dusk	1	14.3%				South	3	20.0%
			<b>TOTAL:</b>	<b>7</b>					Unknown	2	13.3%
									West	3	20.0%
									<b>TOTAL:</b>	<b>15</b>	



## Coordinate Collision Diagram Report

1/1/2017 to 12/31/2017

For XCoordinate 2938207.824406 : YCoordinate 1942087.688678 | 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
4	0	0	0	0	4	0	0	0	0	0

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Rear End	2	50.0%	Tuesday	2	50.0%	1 PM	1	25.0%	Passenger	6	75.0%
Sideswipe Opposite Direction	1	25.0%	Thursday	1	25.0%	3 PM	1	25.0%	Pickup	1	12.5%
Turning	1	25.0%	Saturday	1	25.0%	4 PM	1	25.0%	SUV	1	12.5%
<b>TOTAL:</b>	<b>4</b>		<b>TOTAL:</b>	<b>4</b>		5 PM	1	25.0%	<b>TOTAL:</b>	<b>8</b>	
						<b>TOTAL:</b>	<b>4</b>				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	4	100.0%	Daylight	4	100.0%	Dry	4	100.0%	East	4	50.0%
<b>TOTAL:</b>	<b>4</b>		<b>TOTAL:</b>	<b>4</b>		<b>TOTAL:</b>	<b>4</b>		South	2	25.0%
									West	2	25.0%
									<b>TOTAL:</b>	<b>8</b>	



## Coordinate Collision Diagram Report

1/1/2018 to 12/31/2018

For XCoordinate 2938212.474 : YCoordinate 1942087.117 | 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
10	1	0	1	1	2	1	2	0	1	1

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	3	30.0%	Monday	2	20.0%	05 AM	1	10.0%	Passenger	18	90.0%
Front to Rear	5	50.0%	Tuesday	1	10.0%	09 AM	1	10.0%	SUV	1	5.0%
Pedestrian	1	10.0%	Wednesday	3	30.0%	10 AM	1	10.0%	Van/Mini-Van	1	5.0%
Turning	1	10.0%	Thursday	1	10.0%	11 AM	1	10.0%	TOTAL:	20	
TOTAL:	10		Friday	2	20.0%	Noon	1	10.0%			
			Saturday	1	10.0%	3 PM	1	10.0%			
			TOTAL:	10		5 PM	3	30.0%			
						9 PM	1	10.0%			
						TOTAL:	10				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	7	70.0%	Darkness, Lighted Road	2	20.0%	Dry	7	70.0%	East	5	25.0%
Rain	1	10.0%	Dawn	1	10.0%	Snow or Slush	1	10.0%	North	5	25.0%
Snow	2	20.0%	Daylight	7	70.0%	Wet	2	20.0%	South	8	40.0%
TOTAL:	10		TOTAL:	10		TOTAL:	10		West	2	10.0%
									TOTAL:	20	



## Coordinate Collision Diagram Report

1/1/2019 to 12/31/2019

For XCoordinate 2938212.474 : YCoordinate 1942087.117 | 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
8	0	0	3	0	5	0	3	0	3	0

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Front to Rear	4	50.0%	Tuesday	1	12.5%	01 AM	1	12.5%	Passenger	10	58.8%
Pedalcyclist	1	12.5%	Wednesday	2	25.0%	10 AM	1	12.5%	Pickup	1	5.9%
Sideswipe Opposite Direction	1	12.5%	Saturday	2	25.0%	Noon	2	25.0%	SUV	3	17.6%
Turning	2	25.0%	Sunday	3	37.5%	2 PM	2	25.0%	Tractor Without Semi-Trailer	1	5.9%
<b>TOTAL:</b>	<b>8</b>		<b>TOTAL:</b>	<b>8</b>		4 PM	1	12.5%	Van/Mini-Van	2	11.8%
						8 PM	1	12.5%	<b>TOTAL:</b>	<b>17</b>	
						<b>TOTAL:</b>	<b>8</b>				
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	6	75.0%	Darkness, Lighted Road	2	25.0%	Dry	6	75.0%	North	4	23.5%
Rain	2	25.0%	Daylight	6	75.0%	Wet	2	25.0%	Northwest	1	5.9%
<b>TOTAL:</b>	<b>8</b>		<b>TOTAL:</b>	<b>8</b>		<b>TOTAL:</b>	<b>8</b>		South	7	41.2%
									Southwest	1	5.9%
									West	4	23.5%
									<b>TOTAL:</b>	<b>17</b>	



## Coordinate Collision Diagram Report

1/1/2020 to 12/31/2020

For XCoordinate 2938212.474 : YCoordinate 1942087.117 | 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
3	0	0	1	0	2	0	1	0	1	0

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	1	33.3%	Wednesday	1	33.3%	04 AM	1	33.3%	Passenger	3	50.0%
Sideswipe Same Direction	1	33.3%	Thursday	2	66.7%	2 PM	2	66.7%	Pickup	1	16.7%
Turning	1	33.3%	<b>TOTAL:</b>	<b>3</b>		<b>TOTAL:</b>	<b>3</b>		SUV	1	16.7%
<b>TOTAL:</b>	<b>3</b>								Unknown	1	16.7%
									<b>TOTAL:</b>	<b>6</b>	

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	3	100.0%	Darkness, Lighted Road	1	33.3%	Dry	3	100.0%	North	1	16.7%
<b>TOTAL:</b>	<b>3</b>		Daylight	2	66.7%	<b>TOTAL:</b>	<b>3</b>		South	3	50.0%
			<b>TOTAL:</b>	<b>3</b>					West	2	33.3%
									<b>TOTAL:</b>	<b>6</b>	



## Coordinate Collision Diagram Report

1/1/2021 to 12/31/2021

For XCoordinate 2938201.353 : YCoordinate 1942437.763 | 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
6	0	0	2	0	4	0	2	0	2	0

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	2	33.3%	Tuesday	1	16.7%	07 AM	1	16.7%	Passenger	10	83.3%
Front to Rear	2	33.3%	Wednesday	1	16.7%	08 AM	1	16.7%	SUV	2	16.7%
Turning	2	33.3%	Thursday	1	16.7%	10 AM	1	16.7%	TOTAL:	12	
TOTAL:	6		Friday	1	16.7%	11 AM	1	16.7%			
			Saturday	1	16.7%	4 PM	1	16.7%			
			Sunday	1	16.7%	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, Lighted Road	1	16.7%	Dry	6	100.0%	East	2	16.7%
TOTAL:	6		Daylight	5	83.3%	TOTAL:	6		North	6	50.0%
			TOTAL:	6					South	1	8.3%
									West	3	25.0%
									TOTAL:	12	



## Coordinate Collision Diagram Report

1/1/2022 to 12/31/2022

For XCoordinate 2938201.353 : YCoordinate 1942437.763 | 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
4	0	0	0	0	4	0	0	0	0	0

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Front to Rear	3	75.0%	Monday	1	25.0%	09 AM	1	25.0%	Passenger	7	77.8%
Turning	1	25.0%	Tuesday	2	50.0%	Noon	1	25.0%	Pickup	1	11.1%
<b>TOTAL:</b>	<b>4</b>		Friday	1	25.0%	5 PM	1	25.0%	SUV	1	11.1%
			<b>TOTAL:</b>	<b>4</b>		6 PM	1	25.0%	<b>TOTAL:</b>	<b>9</b>	
						<b>TOTAL:</b>	<b>4</b>				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	4	100.0%	Darkness, Lighted Road	1	25.0%	Dry	4	100.0%	North	2	22.2%
<b>TOTAL:</b>	<b>4</b>		Daylight	3	75.0%	<b>TOTAL:</b>	<b>4</b>		South	6	66.7%
			<b>TOTAL:</b>	<b>4</b>					West	1	11.1%
								<b>TOTAL:</b>	<b>9</b>		





### 3. Traffic Volume

The table below shows a summary of the Average Daily Traffic Count (ADTC) at the intersection of **Foster Ave and Harlem Ave** over a span of 14 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 2009-2011 shows the period prior to the installation of a RLR camera.

The data from 2012 shows the year in which the camera was installed.

The data from 2013-2022 shows the period following the installation.

	Direction Year	Eastbound	Westbound	Northbound	Southbound	Combined	Combined Avg
Before Installation	2009	N/A	N/A	32,100	32,100	N/A	N/A
	2010	13,000	11,800	32,100	32,100	89,000	85,100
	2011	13,000	11,800	28,200	28,200	81,200	
	2012	13,000	11,800	28,200	28,200	81,200	
After Installation	2013	13,000	11,800	35,500	35,500	95,800	82,860
	2014	10,250	11,500	35,500	35,500	92,750	
	2015	10,250	11,500	31,000	31,000	83,750	
	2016	10,250	11,500	31,000	31,000	83,750	
	2017	10,250	11,500	30,200	30,100	82,050	
	2018	11,600	11,600	30,200	30,100	83,500	
	2019	11,600	11,600	30,700	28,200	82,100	
	2020	11,600	11,600	30,700	28,200	82,100	
	2021	9,850	7,300	28,900	26,500	72,550	
	2022	7,850	7,000	28,900	26,500	70,250	

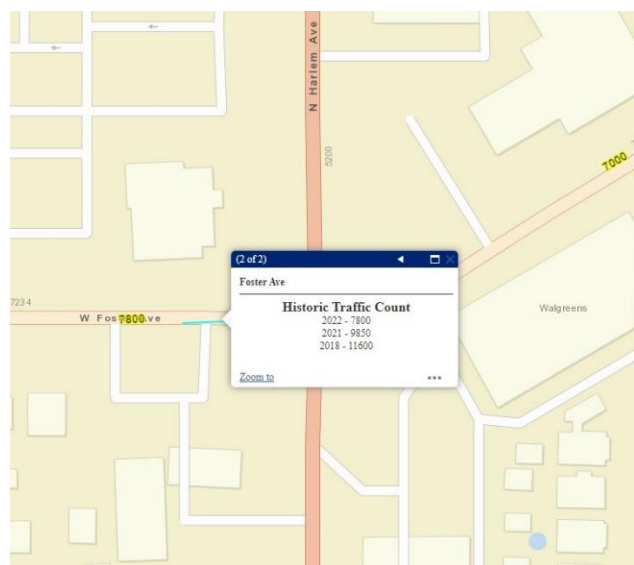
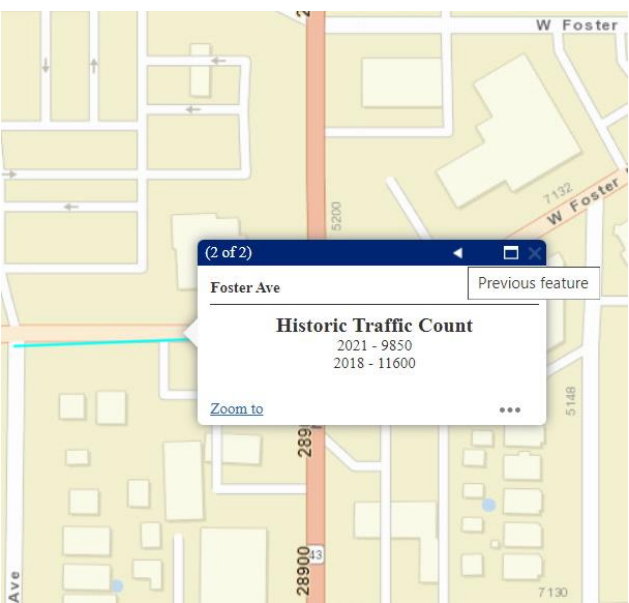
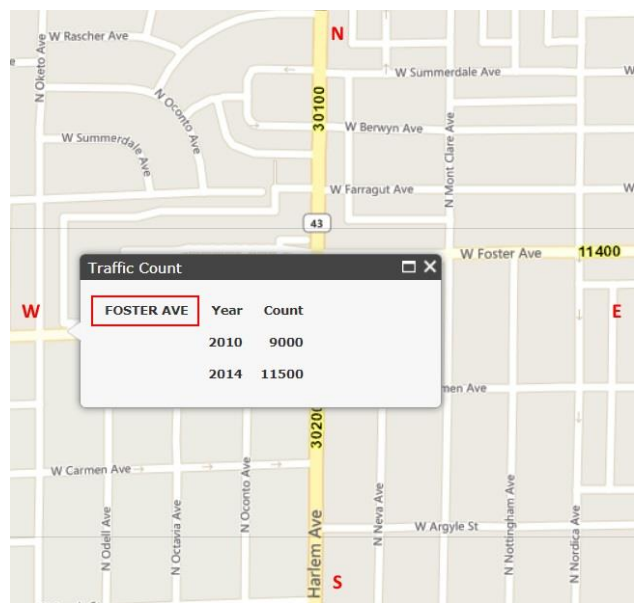
From the years 2010-2011 (2009 data has been discarded due to not available data), prior to RLR camera installation, the combined average of ADTC was 85,100.

From 2013-2022, post RLR camera installation, the combined average of ADTC was 82.860 - a slight decrease of 2.63%.

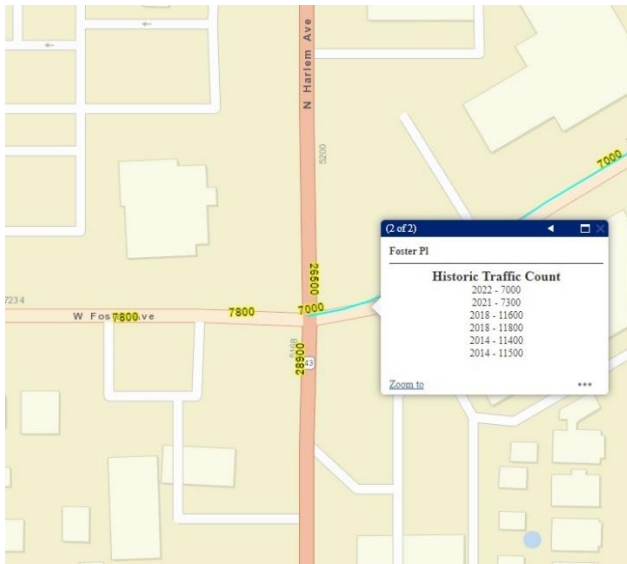
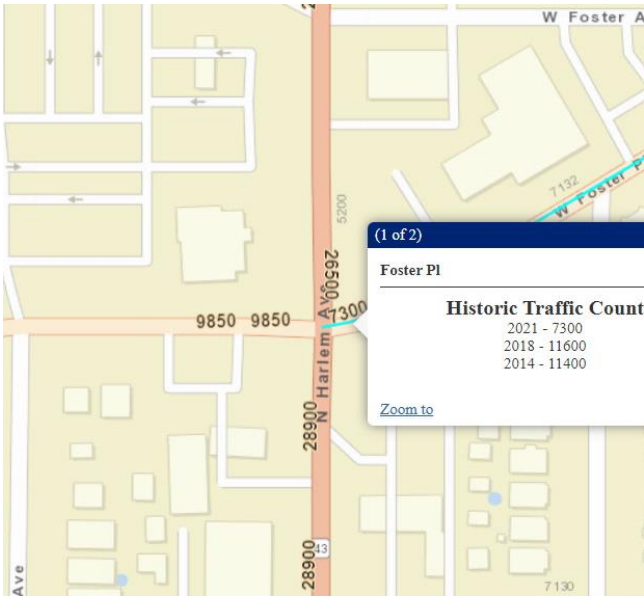
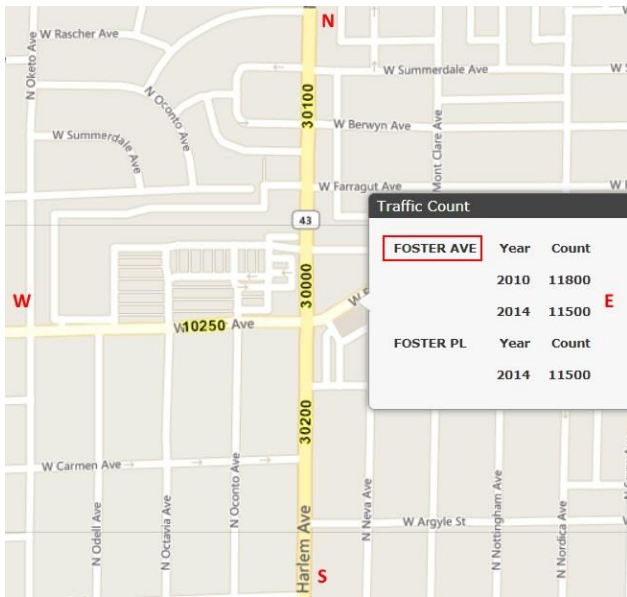
The following page shows the complete ADTC data from 2009-2022 obtained from the IDOT’s website.

The traffic numbers below were obtained from the IDOT website during preparation of the follow up reports in 2018, 2022 and 2023 per the RLR Guideline document published by the IDOT. Only ADTC values were available, peak numbers were not provided.

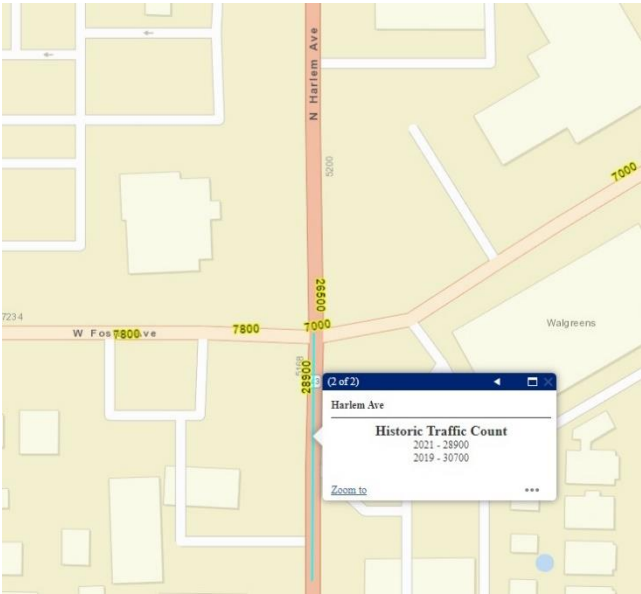
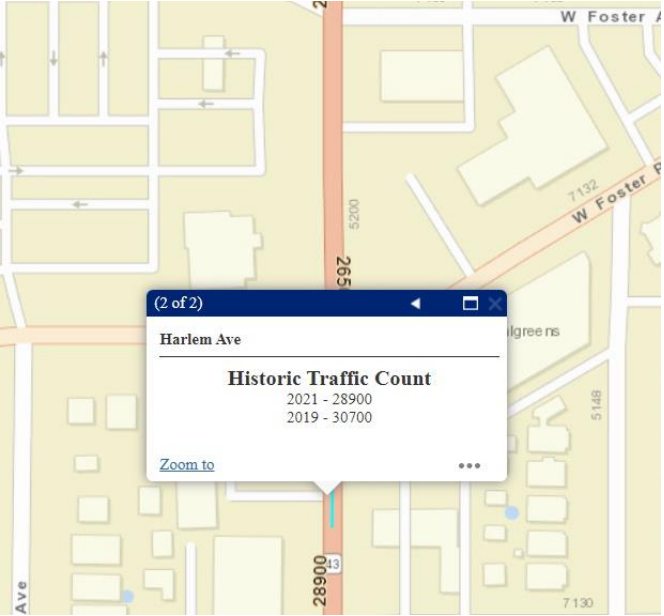
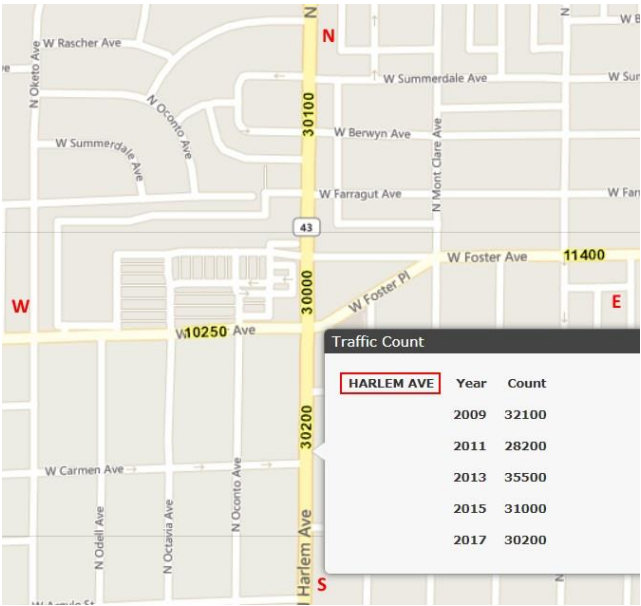
**Eastbound ADTC**



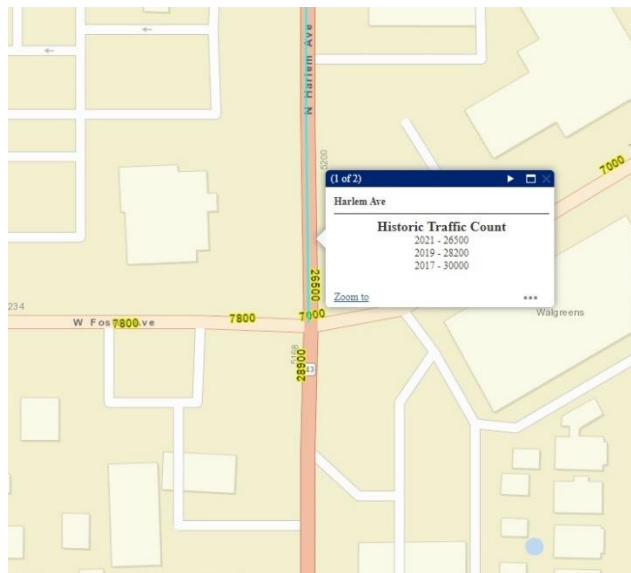
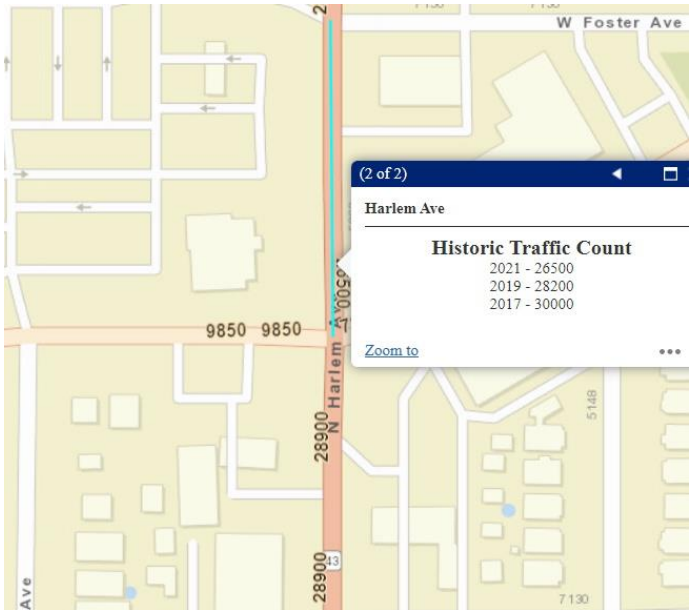
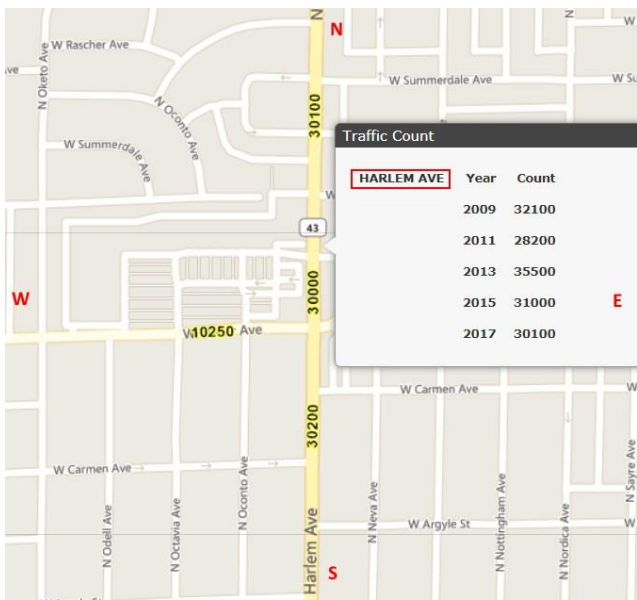
Westbound ADTC



Northbound ADTC



Southbound ADTC





## 4. Summary of Adjudication

The summary of tickets contested “in person” and “by mail” for the **Eastbound** approach of **Foster Ave and Harlem Ave** from 2021 to 2022.

	<b>2021</b>	<b>2022</b>
<b>In Person</b>	159	161
<b>By Mail</b>	187	192





## 5. Report Summary and Recommendation

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

From the years 2010-2011 (2009 data has been discarded due to not available data), prior to RLR camera installation, the combined average of ADTC was 85,100. From 2013-2022, post RLR camera installation, the combined average of ADTC was 82.860 - a slight decrease of 2.63%. (See tab 3)

From the years 2009-2011, prior to RLR camera installation, there were 44 total crashes; this averages out to 14.67 crashes a year. From 2013-2022, post RLR camera installation, there were 62 total crashes; this averages out to 6.2 crashes per year - a 57.73% reduction of overall crashes in direct comparison with the time period aforementioned. (See tab 2)

Following the installation of the RLR camera, total crashes have gone down 57.73%, even with a slight decrease of 2.63% in the combined average of ADTC.

After analyzing all of the available data, we believe that the RLR camera currently in operation at the intersection of Foster Ave and Harlem Ave in the **Village of Harwood Heights** is making a contribution toward improving traffic safety.

Because 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.