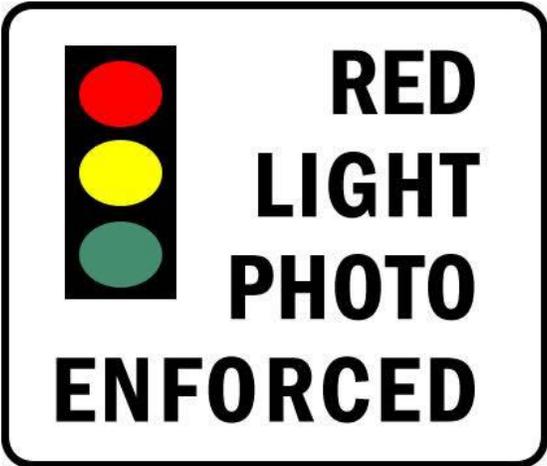


FOLLOW UP EVALUATION REPORT FOR RLR CAMERAS



08/01/2016 - 07/31/2019

HOMEWOOD POLICE DEPARTMENT

INTERSECTION LOCATIONS AND DATES OF IMPLEMENTATION

IL Route 1 (Halsted Street) @ 175th Street



- RLR enforcement monitors violations occurring on the **northbound** approach of the intersection
- Warning Mode: 07/02/2009
- Live: 08/01/2009

IL Route 1 (Halsted Street) @ 183rd Street



- RLR enforcement monitors violations occurring on the **southbound** approach of the intersection
- Warning Mode: 07/02/2009
- Live: 08/01/2009

IL Route 1 (Halsted Street) @ Ridge Road



- RLR enforcement monitors violations occurring on the **southbound** approach of the intersection
- Warning Mode: 08/04/2009
- Live: 08/18/2009

Governors Highway @ 183rd Street



- RLR enforcement monitors violations occurring on the **northbound** and **eastbound** approaches of the intersection
- Warning Mode: 07/02/2009
- Live: 08/01/2009

RLR CAMERA SYSTEM MANUFACTURER AND CONTRACTOR NAME

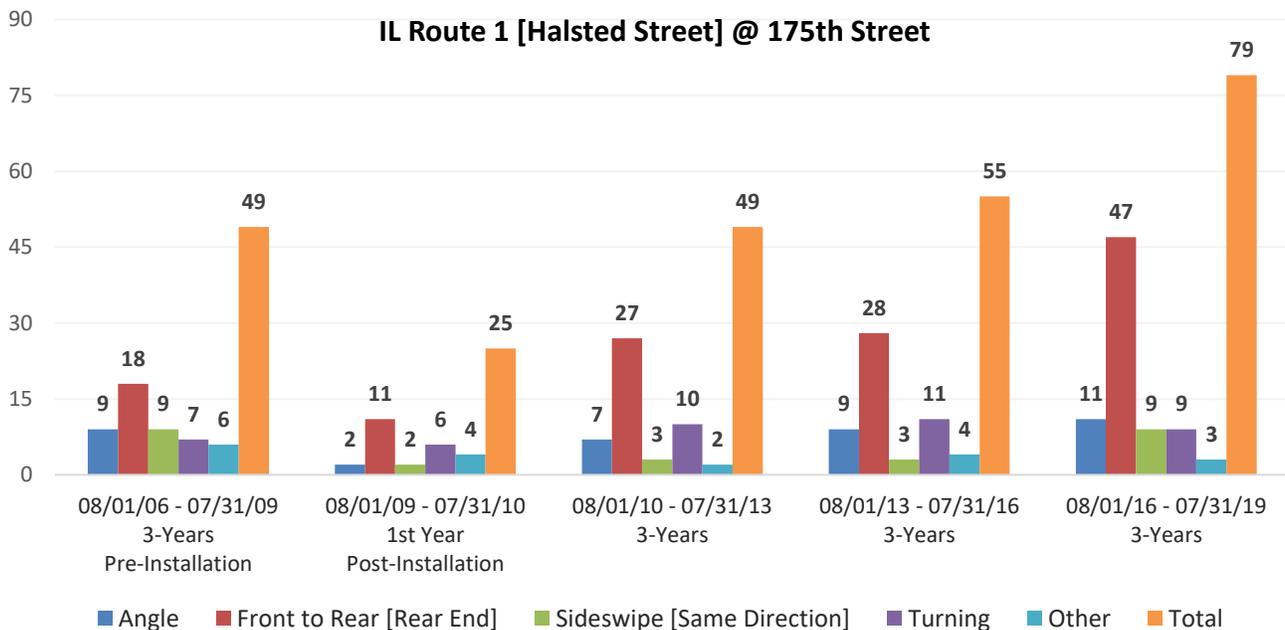
- Gatso USA, Inc.
900 Cummings Center
Suite 222-T
Beverly, MA 01915

IL Route 1 [Halsted Street] @ 175th Street

**red light camera out of service due to construction from 09/03/2018 - 07/31/2019*

CRASH DATA SPECIFIC TO RLR LOCATIONS FOR THE THREE (3) YEAR PERIOD PRIOR TO AND FOR THE PERIOD POST RLR CAMERA INSTALLATION

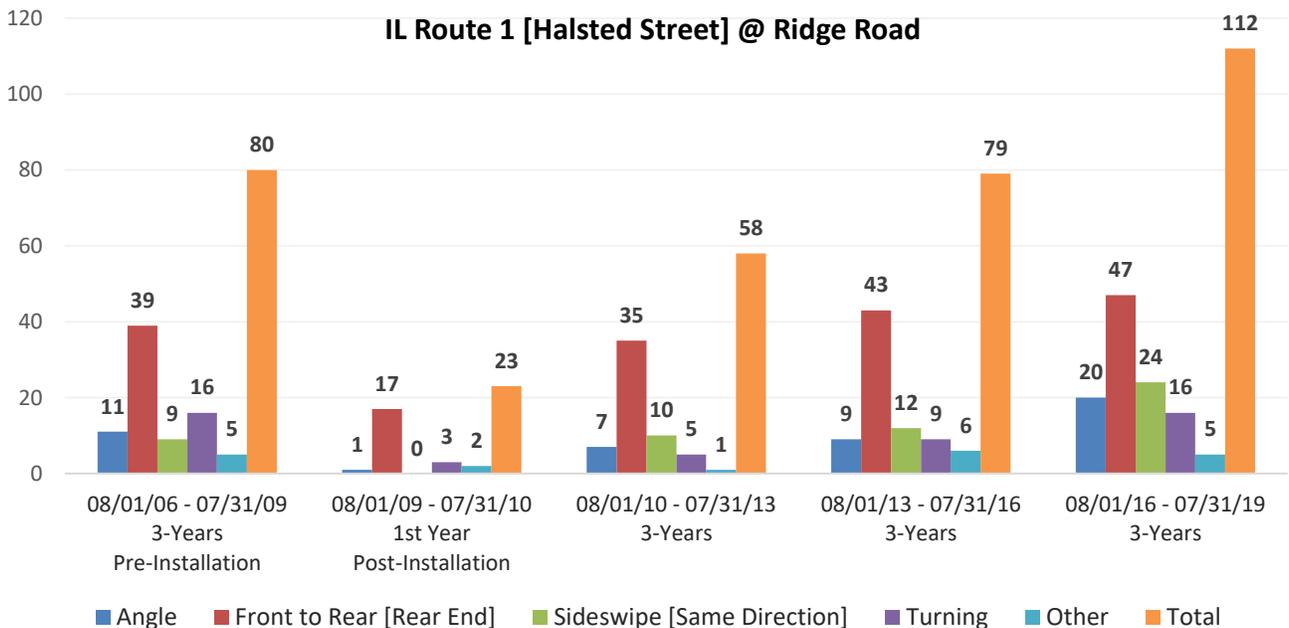
IL Route 1 [Halsted Street] @ 175th Street	Angle		Front to Rear [Rear End]		Side Swipe [Same Direction]		Turning		Other		TOTAL
	#	%	#	%	#	%	#	%	#	%	
08/01/06 - 07/31/07	4	21.1%	6	31.6%	5	26.3%	2	10.5%	2	10.5%	19
08/01/07 - 07/31/08	2	11.1%	7	38.9%	3	16.7%	3	16.7%	3	16.7%	18
08/01/08 - 07/31/09	3	25.0%	5	41.7%	1	8.3%	2	16.7%	1	8.3%	12
TOTAL 08/01/06 - 07/31/09	9	18.4%	18	36.7%	9	18.4%	7	14.3%	6	12.2%	49
AVERAGE 08/01/06 - 07/31/09	3.0		6.0		3.0		2.3		2.0		16.3
08/01/09 - 07/31/10	2	8.0%	11	44.0%	2	8.0%	6	24.0%	4	16.0%	25
08/01/10 - 07/31/11	4	18.2%	11	50.0%	1	4.5%	5	22.7%	1	4.5%	22
08/01/11 - 07/31/12	2	10.5%	11	57.9%	2	10.5%	3	15.8%	1	5.3%	19
08/01/12 - 07/31/13	1	12.5%	5	62.5%	-	0.0%	2	25.0%	-	0.0%	8
08/01/13 - 07/31/14	4	21.1%	8	42.1%	1	5.3%	5	26.3%	1	5.3%	19
08/01/14 - 07/31/15	2	10.0%	13	65.0%	1	5.0%	3	15.0%	1	5.0%	20
08/01/15 - 07/31/16	3	18.8%	7	43.8%	1	6.3%	3	18.8%	2	12.5%	16
08/01/16 - 07/31/17	4	16.0%	17	68.0%	2	8.0%	2	8.0%	-	0.0%	25
08/01/17 - 07/31/18	6	26.1%	15	65.2%	1	4.3%	1	4.3%	-	0.0%	23
08/01/18 - 07/31/19	1	3.2%	15	48.4%	6	19.4%	6	19.4%	3	9.7%	31
TOTAL 08/01/10 - 07/31/19	29	13.9%	113	54.3%	17	8.2%	36	17.3%	13	6.3%	208
AVERAGE 08/01/10 - 07/31/19	3.0		11.3		1.7		3.3		1.0		20.3
OVERALL TOTAL	38	14.8%	131	51.0%	26	10.1%	43	16.7%	19	7.4%	257
OVERALL AVERAGE	2.9		10.1		2.0		3.3		1.5		19.8
COMPARISON OF AVERAGES PRE VS. POST INSTALLATION	0.0		+5.3		-1.3		+1.0		-1.0		+4.0



IL Route 1 [Halsted Street] @ Ridge Road

CRASH DATA SPECIFIC TO RLR LOCATIONS FOR THE THREE (3) YEAR PERIOD PRIOR TO AND FOR THE PERIOD POST RLR CAMERA INSTALLATION (CONTINUED)

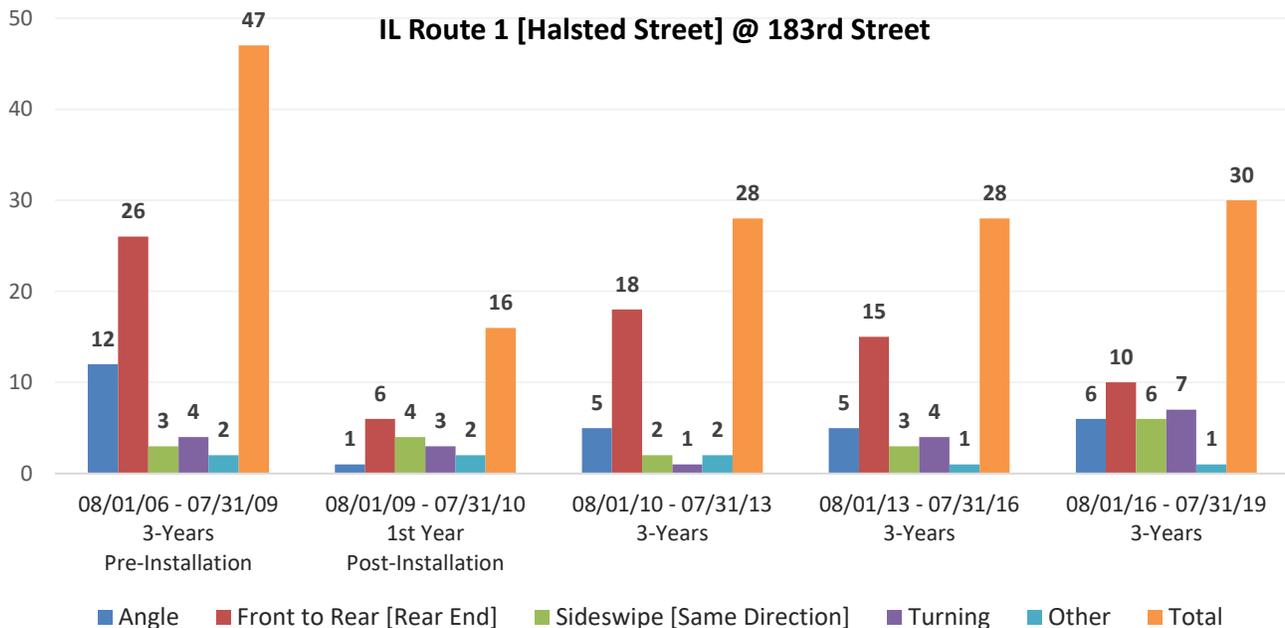
IL Route 1 [Halsted Street] @ Ridge Road	Angle		Front to Rear [Rear End]		Side Swipe [Same Direction]		Turning		Other		TOTAL
	#	%	#	%	#	%	#	%	#	%	
08/01/06 - 07/31/07	6	19.4%	13	41.9%	4	12.9%	6	19.4%	2	6.5%	31
08/01/07 - 07/31/08	4	16.0%	11	44.0%	1	4.0%	6	24.0%	3	12.0%	25
08/01/08 - 07/31/09	1	4.2%	15	62.5%	4	16.7%	4	16.7%	-	0.0%	24
TOTAL 08/01/06 - 07/31/09	11	13.8	39	48.8	9	11.3	16	20.0	5	6.3	80
AVERAGE 08/01/06 - 07/31/09	3.7		13.0		3.0		5.3		1.7		26.7
08/01/09 - 07/31/10	1	4.3%	17	73.9%	-	0.0%	3	13.0%	2	8.7%	23
08/01/10 - 07/31/11	2	10.0%	14	70.0%	1	5.0%	2	10.0%	1	5.0%	20
08/01/11 - 07/31/12	2	11.8%	8	47.1%	6	35.3%	1	5.9%	-	0.0%	17
08/01/12 - 07/31/13	3	14.3%	13	61.9%	3	14.3%	2	9.5%	-	0.0%	21
08/01/13 - 07/31/14	4	22.2%	8	44.4%	3	16.7%	2	11.1%	1	5.6%	18
08/01/14 - 07/31/15	1	3.1%	21	65.6%	5	15.6%	3	9.4%	2	6.3%	32
08/01/15 - 07/31/16	4	13.8%	14	48.3%	4	13.8%	4	13.8%	3	10.3%	29
08/01/16 - 07/31/17	6	19.4%	18	58.1%	4	12.9%	3	9.7%	-	0.0%	31
08/01/17 - 07/31/18	7	17.9%	15	38.5%	11	28.2%	4	10.3%	2	5.1%	39
08/01/18 - 07/31/19	7	16.7%	14	33.3%	9	21.4%	9	21.4%	3	7.1%	42
TOTAL 08/01/10 - 07/31/19	37	13.6%	142	52.2%	46	16.9%	33	12.1%	14	5.1%	272
AVERAGE 08/01/10 - 07/31/19	4.0		13.9		5.1		3.3		1.3		27.7
OVERALL TOTAL	48	13.6%	181	51.4%	55	15.6%	49	13.9%	19	5.4%	352
OVERALL AVERAGE	3.7		13.9		4.2		3.8		1.5		27.1
COMPARISON OF AVERAGES PRE VS. POST INSTALLATION	+0.3		+0.9		+2.1		-2.0		-0.3		+1.0



IL Route 1 [Halsted Street] @ 183rd Street

CRASH DATA SPECIFIC TO RLR LOCATIONS FOR THE THREE (3) YEAR PERIOD PRIOR TO AND FOR THE PERIOD POST RLR CAMERA INSTALLATION (CONTINUED)

IL Route 1 [Halsted Street] @ 183 rd Street	Angle		Front to Rear [Rear End]		Side Swipe [Same Direction]		Turning		Other		TOTAL
	#	%	#	%	#	%	#	%	#	%	
08/01/06 - 07/31/07	7	31.8%	12	54.5%	2	9.1%	1	4.5%	-	0.0%	22
08/01/07 - 07/31/08	2	13.3%	10	66.7%	-	0.0%	2	13.3%	1	6.7%	15
08/01/08 - 07/31/09	3	30.0%	4	40.0%	1	10.0%	1	10.0%	1	10.0%	10
TOTAL 08/01/06 - 07/31/09	12	25.5%	26	55.3%	3	6.4%	4	8.5%	2	4.3%	47
AVERAGE 08/01/06 - 07/31/09	4.0		8.7		1.0		1.3		0.7		15.7
08/01/09 - 07/31/10	1	6.3%	6	37.5%	4	25.0%	3	18.8%	2	12.5%	16
08/01/10 - 07/31/11	-	0.0%	7	63.6%	1	9.1%	1	9.1%	2	18.2%	11
08/01/11 - 07/31/12	2	33.3%	4	66.7%	-	0.0%	-	0.0%	-	0.0%	6
08/01/12 - 07/31/13	3	27.3%	7	63.6%	1	9.1%	-	0.0%	-	0.0%	11
08/01/13 - 07/31/14	2	25.0%	5	62.5%	1	12.5%	-	0.0%	-	0.0%	8
08/01/14 - 07/31/15	1	33.3%	2	66.7%	-	0.0%	-	0.0%	-	0.0%	3
08/01/15 - 07/31/16	2	11.8%	8	47.1%	2	11.8%	4	23.5%	1	5.9%	17
08/01/16 - 07/31/17	1	12.5%	3	37.5%	2	25.0%	2	25.0%	-	0.0%	8
08/01/17 - 07/31/18	4	30.8%	5	38.5%	1	7.7%	2	15.4%	1	7.7%	13
08/01/18 - 07/31/19	1	11.1%	2	22.2%	3	33.3%	3	33.3%	-	0.0%	9
TOTAL 08/01/10 - 07/31/19	17	16.7%	49	48.0%	15	14.7%	15	14.7%	6	5.9%	102
AVERAGE 08/01/10 - 07/31/19	1.8		4.8		1.2		1.3		0.4		9.6
OVERALL TOTAL	29	19.5%	75	50.3%	18	12.1%	19	12.8%	8	5.4%	149
OVERALL AVERAGE	2.2		5.8		1.4		1.5		0.6		11.5
COMPARISON OF AVERAGES PRE VS. POST INSTALLATION	-2.2		-3.9		+0.2		0.0		-0.2		-6.1

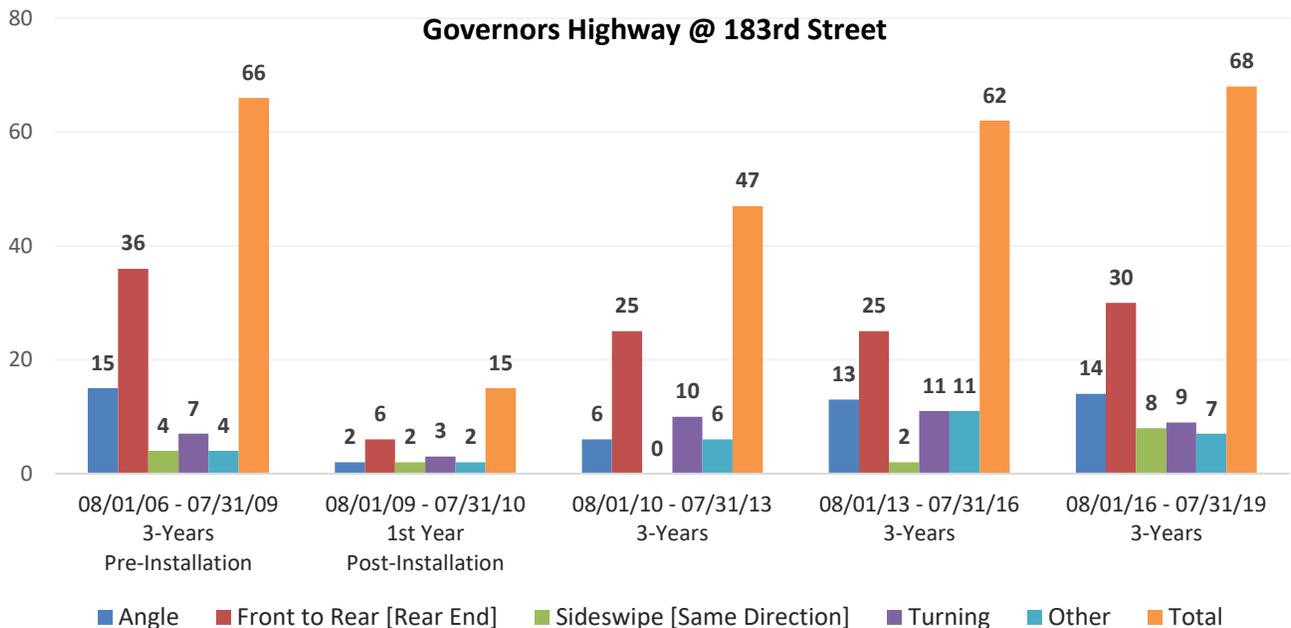


* The Village of Homewood only has jurisdiction over the southbound approach to this intersection. The other 3 approaches are under the jurisdiction of the Village of Glenwood

Governors Highway @ 183rd Street

CRASH DATA SPECIFIC TO RLR LOCATIONS FOR THE THREE (3) YEAR PERIOD PRIOR TO AND FOR THE PERIOD POST RLR CAMERA INSTALLATION (CONTINUED)

Governors Highway @ 183 rd Street	Angle		Front to Rear [Rear End]		Side Swipe [Same Direction]		Turning		Other		TOTAL
	#	%	#	%	#	%	#	%	#	%	
08/01/06 - 07/31/07	10	31.3%	17	53.1%	2	6.3%	2	6.3%	1	3.1%	32
08/01/07 - 07/31/08	3	15.8%	9	47.4%	2	10.5%	4	21.1%	1	5.3%	19
08/01/08 - 07/31/09	2	13.3%	10	66.7%	-	0.0%	1	6.7%	2	13.3%	15
TOTAL 08/01/06 - 07/31/09	15	22.7%	36	54.5%	4	6.1%	7	10.6%	4	6.1%	66
AVERAGE 08/01/06 - 07/31/09	5.0		12.0		1.3		2.3		1.3		22.0
08/01/09 - 07/31/10	2	13.3%	6	40.0%	2	13.3%	3	20.0%	2	13.3%	15
08/01/10 - 07/31/11	3	15.0%	14	70.0%	-	0.0%	1	5.0%	2	10.0%	20
08/01/11 - 07/31/12	2	13.3%	7	46.7%	-	0.0%	5	33.3%	1	6.7%	15
08/01/12 - 07/31/13	1	8.3%	4	33.3%	-	0.0%	4	33.3%	3	25.0%	12
08/01/13 - 07/31/14	5	21.7%	11	47.8%	1	4.3%	2	8.7%	4	17.4%	23
08/01/14 - 07/31/15	3	23.1%	6	46.2%	-	0.0%	1	7.7%	3	23.1%	13
08/01/15 - 07/31/16	5	19.2%	8	30.8%	1	3.8%	8	30.8%	4	15.4%	26
08/01/16 - 07/31/17	6	26.1%	11	47.8%	2	8.7%	2	8.7%	2	8.7%	23
08/01/17 - 07/31/18	3	20.0%	7	46.7%	3	20.0%	1	6.7%	1	6.7%	15
08/01/18 - 07/31/19	5	16.7%	12	40.0%	3	10.0%	6	20.0%	4	13.3%	30
TOTAL 08/01/10 - 07/31/19	35	18.2%	86	44.8%	12	6.3%	33	17.2%	26	13.5%	192
AVERAGE 08/01/10 - 07/31/19	3.7		8.9		1.1		3.3		2.7		19.7
OVERALL TOTAL	50	19.4%	122	47.3%	16	6.2%	40	15.5%	30	11.6%	258
OVERALL AVERAGE	3.8		9.4		1.2		3.1		2.3		19.8
COMPARISON OF AVERAGES PRE VS. POST INSTALLATION	-1.3		-3.1		-0.2		+1.0		+1.3		-2.3



ANALYSIS OF CRASH DATA, INCLUDING A SUMMARY OF ANY INCREASE IN CRASH TYPES

- The higher number of accidents at IL Route 1 [Halsted Street] @ 175th Street is attributed to construction which was in progress for the period of 09/03/2018 thru 07/31/2019.
- Since none of the intersections are totally signalized for red light violations the analysis can only be looked at with what might occur if they were signalized. If one were to study the intersection of 183rd & Governors, where two directions have red light cameras, the average number of accidents at that location has decreased by 2.1 since 2007. This has been one of our most dangerous accident locations so it would seem that the program is working well at that location.

Note: Due to an internal policy change in 2009, more officer written accident reports are taken which accounts for the increase in overall accident reports. However, the increase in the number of reports taken has had a minimal effect on the average numbers for each location.

SIGNAL TIMING AND OTHER SETTINGS BEFORE AND AFTER RLR CAMERA INSTALLATION

- There were no timing changes made at any of the locations.

TRAFFIC VOLUMES BEFORE AND AFTER RLR CAMERA SYSTEM INSTALLATION

175 th & Halsted	2007	2009	2012	2013	2014	2015	2018	2019
N/B & S/B Halsted	35,200	33,200	31,200	26,300	26,300	37,000	39,200	34,700
E/B 175 th	not available	not available	not available	not available	8,200	not available	6,350	6,350
W/B 175 th	not available	not available	not available	not available	4,700	not available	road closed	

Ridge & Halsted	2007	2009	2012	2013	2014	2015	2018	2019
N/B Halsted	33,600	29,800	28,200	29,300	29,300	37,700	21,100	28,400
S/B Halsted	35,200	33,200	31,200	26,300	26,300	37,000	39,200	34,700
E/B Ridge	17,000	17,000	9,700	9,700	8,450	8,450	9,400	9,400
W/B Ridge	17,000	17,000	9,700	9,700	10,100	10,100	9,100	9,100

183 rd & Halsted	2007	2009	2012	2013	2014	2015	2018	2019
N/B & S/B Halsted	33,600	29,800	28,200	29,300	29,300	29,300	29,300	28,400
E/B 183 rd	16,500	16,500	18,700	18,700	12,700	12,700	17,500	17,500

183 rd & Governors	2007	2009	2010	2013	2014	2015	2018	2019
N/B Governors	10,800	10,800	12,200	12,200	12,100	12,100	10,400	10,400
S/B Governors	9,100	9,100	8,700	8,700	8,900	8,900	8,800	8,800
E/B & W/B Governors	16,500	16,500	18,800	18,800	17,800	17,800	15,900	15,900

RECOMMENDATIONS TO FURTHER REDUCE RED LIGHT VIOLATIONS AND SEVERE CRASHES AND TO IMPROVE THE OPERATIONS OF THE INTERSECTIONS

- All of the intersections have been upgraded with new LED lights and 12 inch signal heads. It is our belief that with the new signalization and the public's knowledge of the existence of red light enforcement at these key locations that we will continue to see a reduction in severe crashes in the Village of Homewood.

SUMMARY OF ADJUDICATION EXPERIENCE AND RESULTS

- The following is a summary of the adjudication process from August 2016 through July 2019. The table reflects the number of citations issued for each RLR location and the disposition for all contested citations.

CITATIONS ISSUED BY APPROACH

	08/01/2016 - 07/31/2017		08/01/2017 - 07/31/2018		08/01/2018 - 07/31/2019		TOTAL	
	#	%	#	%	#	%	#	%
N/B IL Route 1 [Halsted Street] @ 175th Street	498	16.2%	647	18.6%	66	2.5%	1,211	13.1%
S/B IL Route 1 [Halsted Street] @ Ridge Road	707	23.0%	945	27.1%	1,038	38.8%	2,690	29.1%
S/B IL Route 1 [Halsted Street] @ 183 rd Street	713	23.2%	775	22.3%	478	17.9%	1,966	21.3%
N/B Governors Highway @ 183 rd Street	448	14.6%	367	10.5%	448	16.7%	1,263	13.7%
E/B 183 rd Street @ Governors Highway	707	23.0%	749	21.5%	646	24.1%	2,102	22.8%
TOTAL CITATIONS ISSUED	3,073		3,483		2,676		9,232	
Contested in Person	61	78.2%	72	85.7%	41	71.9%	176	79.4%
Contested by Mail	17	21.8%	12	14.3%	16	28.1%	46	20.6%
TOTAL CITATIONS CONTESTED	78		84		57		219	
<i>Liabe</i>	45	57.7%	52	61.9%	25	43.9%	122	55.7%
<i>Not Liabe</i>	21	26.9%	13	15.5%	18	31.6%	52	23.7%
<i>Failed to Appear</i>	12	15.4%	19	22.6%	14	24.6%	45	20.5%

