

May 1, 2013

Illinois Department of Transportation
Traffic Operations Bureau Chief
Attn: Permit Engineer
201 W. Center Court
Schaumburg IL 60196

RE: IDOT Reference No: 049-45728 RLC @ RT 21 & RT 137 – NB & EB
IDOT Reference No: 049-45727 RLC @ RT 21 & Artaius Parkway - NB
IDOT Reference No: 049-45729 RLC @ RT 137 & Butterfield Road - WB
IDOT Reference No: 049-45731 RLC @ US 45 & Peterson Road - NB

Dear Permit Engineer,

Please accept this letter as the review and evaluation report for the 3 years after installation and operation of automated red light enforcement cameras at the above detailed locations.

- All of the locations are detailed above, along with their IDOT Reference Number. There are a total of 5 cameras at the 4 locations.
- All cameras were activated “live” on May 22, 2010. This was preceded by the mandated warning and test period.
- The camera at Milwaukee Avenue (Route 21) and Peterson Road (Route 137) was disconnected as of September 30, 2012 due to road construction and reconfiguration of the intersection by IDOT.
- All red light camera equipment is provided by Gatso USA, Inc.. Gatso USA sub-contracts with Meade Electric for equipment maintenance and repair.
- At the same time as RLR implementation, the Village created an administrative adjudication hearing program. Part of the purpose of this program was to provide an alternate means to challenge RLR violations before an Administrative Hearing Officer. Both Village staff and the public have responded well to this process, due to its flexibility and ease of process. Alleged violators are provided an opportunity to review images and video with the Hearing Officer in a one-on-one setting, as well as present mitigating factors or evidence.

Traffic Crash Data Analysis

RT 21 & RT 137		Northbound & Eastbound enforcement cameras				
5/1 - 4/30 Yearly	2007	2008	2009	2010	2011	2012
Property Damage	67	63	58	42	23	
Personal Injury	13	8	9	8	4	
Total	80	71	67	50	27	
<i>Average: 69</i>				<i>Average: 39</i>		

Result – Compared to the 3 years prior to the implementation of automated enforcement, a significant decline has been noted. However, due to major road construction and the removal of the cameras 1 ½ years into the project, a true evaluation of the impact is not feasible.

Signal timing - Yellow light (straight through) = 4.5 seconds
 Yellow light (left hand turn) = 3 seconds
No changes in timing were noted after implementation

Traffic Counts- (2010) RT 21 21,300 cars & 1,250 trucks (before)
 (2011) RT 21 23,400 cars & 800 trucks (after, south of RT 137)
 (2011) RT 21 23,800 cars & 900 trucks (after, north of RT 137)
 (2013) RT21 25,400 cars & 800 trucks (after, south of RT 137)
 (2013) RT 21 22,000 cars & 900 trucks (after, north of RT 137)
 (2010) RT 137 33,500 cars & 3,650 trucks (before)
 (2011) RT 137 26,300 cars & 1,450 trucks (after, east of RT 21)
 (2011) RT 137 32,000 cars & 1,650 trucks (after, west of RT 21)
 (2013) RT 137 23,000 cars & 900 trucks (after, east of RT21)
 (2013) RT 137 29,900 cars & 1,650 trucks (after, west of RT21)

Recommendation: Once construction is completed, reevaluate the necessity for the cameras.

RT 21 & Artaius Parkway - Northbound enforcement camera

5/1 - 4/30 Yearly	2007	2008	2009	2010	2011	2012
Property Damage	27	26	30	26	19	21
Personal Injury	4	8	5	3	3	4
Total	31	34	35	29	22	25
	Average: 33			Average: 25		

Result – In comparing the 3 years prior to implementation versus the 3 years post implementation, there was an average decline of 24% in overall crashes.

Signal timing - Yellow light (straight through) = 4.5 seconds
Yellow light (left hand turn) = 3 seconds
No changes in timing were noted after implementation

Traffic Counts- (2010) RT 21 33,000 cars & 2,200 trucks (before)
(2011) RT 21 32,900 cars & 825 trucks (after)
(2013) RT21 31,300 cars & 950 trucks (after)

Recommendation: Maintain RLR system at this intersection at this time, as well as continued enforcement by Police personnel.

RT 137 & Butterfield Road - Westbound enforcement camera

5/1 - 4/30 Yearly	2007	2008	2009	2010	2011	2012
Property Damage	41	39	27	31	33	19
Personal Injury	4	5	7	3	10	4
Total	45	44	34	34	43	23
	<i>Average: 41</i>			<i>Average: 33</i>		

Result – In comparing the 3 years prior to implementation versus the 3 years post implementation, there was an average decline of 19% in overall crashes.

Signal timing - Yellow light (straight through) = 4 seconds
 Yellow light (left hand turn) = 3 seconds
No changes in timing were noted after implementation

Traffic counts - (2010) RT 137 33,500 cars & 3,650 trucks (before, east of Butterfield)
 (2010) RT 137 15,000 cars & 1,950 trucks (before, west of Butterfield)

 (2011) RT 137 32,000 cars & 1,650 trucks (after, east of Butterfield)
 (2011) RT 137 15,600 cars & 625 trucks (after, west of Butterfield)

 (2013) RT 137 29,900 cars & 1,650 trucks (after, east of Butterfield)
 (2013) RT 137 14,600 cars & 625 trucks (after, west of Butterfield)

Recommendation: Maintain RLR system at this intersection at this time, as well as continued enforcement by Police personnel.

US 45 & Peterson Road – Northbound enforcement camera

5/1 - 4/30 Yearly	2007	2008	2009	2010	2011	2012
Property Damage	33	20	17	28	26	26
Personal Injury	5	3	2	8	7	2
Total	38	23	19	36	33	28
	Average: 27			Average: 32		

Result – In comparing the 3 years prior to implementation versus the 3 years post implementation, there was an average increase of 20% in overall crashes. A review by staff indicates the majority of this increase involves East/West traffic, and does not appear to be related to the RLR installation and operation.

Signal timing - Yellow light (straight through) = 4.4 seconds
 Yellow light (left hand turn) = 3.3 seconds
No changes in timing were noted after implementation

Traffic counts - (2010) US 45 24,400 cars & 1,700 trucks (before, south of Peterson)
 (2012) US 45 26,800 cars & 1,900 trucks (before, north of Peterson)
 (2011) US 45 23,400 cars & 1,705 trucks (after, south of Peterson)
 (2011) US 45 24,000 cars & 1,700 trucks (after, north of Peterson)
 (2013) US 45 27,900 cars & 775 trucks (after, south of Peterson)
 (2013) US 45 22,800 cars & 1,075 trucks (after, north of Peterson)

Peterson Rd – No counts were available at time of implementation

(2011) Peterson Rd 17,000 vehicles (after, east of US 45)
 (2011) Peterson Rd 18,200 vehicles (after, west of US 45)
 (2013) Peterson Rd 15,100 vehicles (after, east of US 45)
 (2013) Peterson Rd 16,000 vehicles (after, west of US 45)

Recommendation: Maintain RLR system at this intersection at this time, as well as continued enforcement by Police personnel.

Should you require any additional information, please feel free to contact me at (847) 362-8310.

Sincerely,

Clint Herdegen
Chief of Police