

Evaluation Report

For

Red Light Running (RLR) Camera Enforcement

**Randall Road at Acorn Lane
Village of Lake in the Hills
McHenry County**

January 19, 2009

**Evaluation Report
For
Red Light Running (RLR) Camera Enforcement**

Intersection Location:

The red light camera is located on Randall Road at Acorn Lane monitoring northbound traffic.

Date of Implementation:

The red light camera became active on December 19, 2007. The warning period ended on January 17, 2008.

The red light camera system is manufactured and maintained by LaserCraft, Inc. located in Norcross, GA.

Crash Data:

Crash data for the above intersection for the last four years is attached. A diagram for the crash data for the first year of the red light camera operation is also attached. The accident data has remained consistent prior to and after implementation of the red light camera.

Signal Timing:

Signal timing is not controlled by the Lake in the Hills Police Department and all signal timing is the same timing used prior to the installation the system..

Traffic Volumes:

Traffic volumes for the red light camera justification report utilized McHenry County Division of Transportation's Year 2005 Traffic Counts. The ADT of Randall Road between Acorn Lane and Algonquin Road was listed at 38,700 vehicles. The McHenry County Division of Transportation's Year 2007 Traffic Counts show the ADT of Randall Road between Acorn Lane and Algonquin Road was listed at 39,360 vehicles.

Recommendations:

The data on traffic crashes in the intersection of Randall Road and Acorn Lane have remained statistically unchanged for the three years prior to and the year after implementation of the system. We believe twelve months is too short of a period to determine if crashes in the intersection were impacted by the operation of the red light camera system. This is the first system in the county and the motoring public is just starting to become accustomed to use of red light camera systems in the area. We do

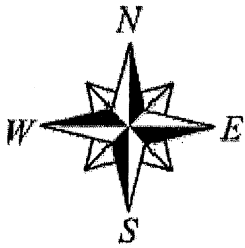
know the camera is having a direct impact on the safety of vehicles traveling through the intersection. This is reflected when the first six months of the system's operation is compared to the last six months of operation. During the first six months of operation the camera system recorded 1099 violations for vehicles violating the red light. During the last six months of operation the system recorded 413 violations for vehicles violating the red light. This is a 62% decrease in red light violations recorded during the last six months of the systems operation. This is a significant decrease in violations which we believe impacts on the safety of the intersection. We further believe this is the start of changing driver behavior at the intersection motivated by the red light camera system. Our recommendation is to continue the operation of the camera system to determine if a further reduction in red light violations is experienced. This will also allow us to see if the changing driver behavior at the intersection starts to impact the amount and types of accidents occurring in the intersection.

Adjudication Experience and Results:

During the first year there have been 29 scheduled hearings for the violations at Randall Road and Acorn Lane. Of the 29 hearings, eight have been dismissed or found not guilty. The remaining 21 were found liable.

ACCIDENT DATA SUMMARY
RANDALL ROAD AT ACORN LANE

Accident Type	2005		2006		2007		2008	
	# of Accidents	# of Injuries	# of Accidents	# of Injuries	# of Accidents	# of Injuries	# of Accidents	# of Injuries
Pedestrian	0	0	0	0	0	0	0	0
Cyclist	0	0	0	0	0	0	0	0
Train	0	0	0	0	0	0	0	0
Animal	0	0	1	0	0	0	0	0
Overtuned	0	0	0	0	0	0	0	0
Fixed Object	0	0	0	0	0	0	1	0
Other Object	0	0	0	0	0	0	0	0
Other Non-collision	0	0	0	0	0	0	0	0
Parked Vehicle	0	0	0	0	0	0	0	0
Turning	1	0	2	1	5	0	5	0
Rear End	29	7	32	5	31	1	31	2
Sideswipe same direction	5	0	5	1	2	0	2	0
Sideswipe opposite direction	0	0	1	0	0	0	0	0
Head-on	0	0	0	1	0	0	0	0
Angle	0	0	0	0	0	0	1	1
Totals	35	7	41	8	38	1	40	3
Fatalities	0		0		0		0	
Time								
Day	24		28		30		33	
Dawn	0		0		0		0	
Dusk	2		2		1		0	
Dark	4		7		1		2	
Darkness w/ Lighting	5		4		6		5	
Weather Type								
Clear	28		28		31		37	
Rain	5		10		3		1	
Snow	2		3		3		2	
Fog/Smoke/Haze	0		0		0		0	
Sleet/Hail	0		0		0		0	
Wind	0		0		0		0	
Other	0		0		1		0	



SYMBOL LEGEND	
→	PATH OF MOTOR VEHICLE
○	PEDESTRIAN/BYCLIST/ANIMAL
□	FIXED OBJECT
●	FATALITY
○	INJURY
↔	REAR END COLLISION
↔	TURN COLLISION
↔	SIDESWPE
↔	ANGLE COLLISION
↔	OUT OF CONTROL
↔	HEAD ON
TIME: A=AM P=PM	
R	RAIN
S	SNOW
F	FOG
W	WIND
C	CLEAR

PC 07-14796
 PC 08-00061 ∅
 PC 08-00150
 PC 08-01760
 PC 08-03196
 AC 08-03556
 PC 08-09356
 PC 08-05278
 PC 08-10707
 AC 08-11711
 PC 08-11817
 AC 08-13209
 PC 08-14270
 PC 08-14522
 PS 08-14569

PC 08-12164

PC 08-08542
 AC 08-10256
 AC 08-12893
 PC 08-08825 ∅
 PC 08-12418

PC 08-14400 →
 PC 08-04017 →
 PC 08-03368 →

PC 08-03871

RANDALL ROAD

AC 08-05175
 PC 08-08390
 PC 08-10102
 PC 08-03569

ACORN LANE

PS 08-14853 →
 AR 08-12601 →
 AC 08-08754 →
 PC 08-08734 →
 PC 08-08384 →
 PC 08-05024 →
 PC 08-05523 →
 PC 08-02498 →
 AC 08-02348 →
 PC 08-01033 →
 PC 08-00704 →
 PC 08-00123 →

Collision Diagram 2007 / 2008
 Intersection of
 Randall Road & Acorn Lane