

Gurnee Police Department Memorandum

TO Chief Woodside
FROM TST Phil Brunell
SUBJECT Follow-up Evaluation Report Washington & Hunt Club
DATE 12/18/13

Sir,

Per the Lake County Department of Transportation photo enforcement policy, we are required to present an evaluation report after one year of operation of a photo enforced intersection. The intersection at Washington Street and Hunt Club Road has been operational for over one year and is due for the report.

In accordance with their policy the following information is needed for the evaluation report:

- Intersection Location(s).
- Date of implementation.
- RLR Camera System manufacturer and contractor name.
- Crash data specific to the RLR location(s) for the 3-year period prior to and for the period post RLR Camera installation. The crash data shall include yearly collision diagrams of the intersection(s).
- An analysis of the crash data, including a summary of any increases or decreases in crash types.
- Signal timings and other settings before and after RLR Camera installation.
- Traffic volumes before and after RLR Camera System installation. The traffic volumes shall include both Average Daily and Peak Period traffic.
- Recommendations to further reduce red light violations and severe crashes and to improve the operation of the intersection(s).
- Summary of adjudication experience and results.
- Financial Report identifying the number citations issued, cost associated with the RLR Camera System, and fees collected.

Overview

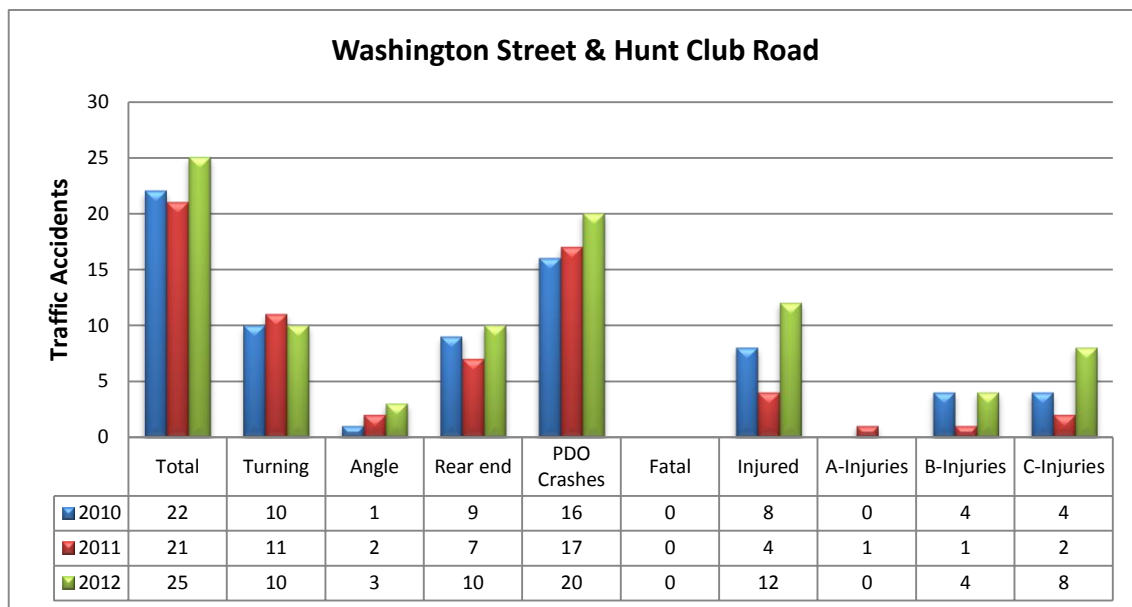
The Village of Gurnee is required to submit a Follow-Up Evaluation report to the Lake County Division of Transportation for the intersection of Washington Street and Hunt Club Road one year after the installation of a Red Light Camera (RLR) System. After the first year evaluation report is completed the Village is required to submit evaluation reports every three years to the Illinois Department of Transportation.

On December 3, 2007, the Village of Gurnee entered into agreement with Redflex Traffic Systems Inc. to install Red Light Running Camera Systems at several intersections throughout the Village. The RLR was installed for the eastbound approach on Washington Street at Hunt Club Road. On August 14, 2012, the intersection testing, warning phase was completed and went fully operational with citations being issued.

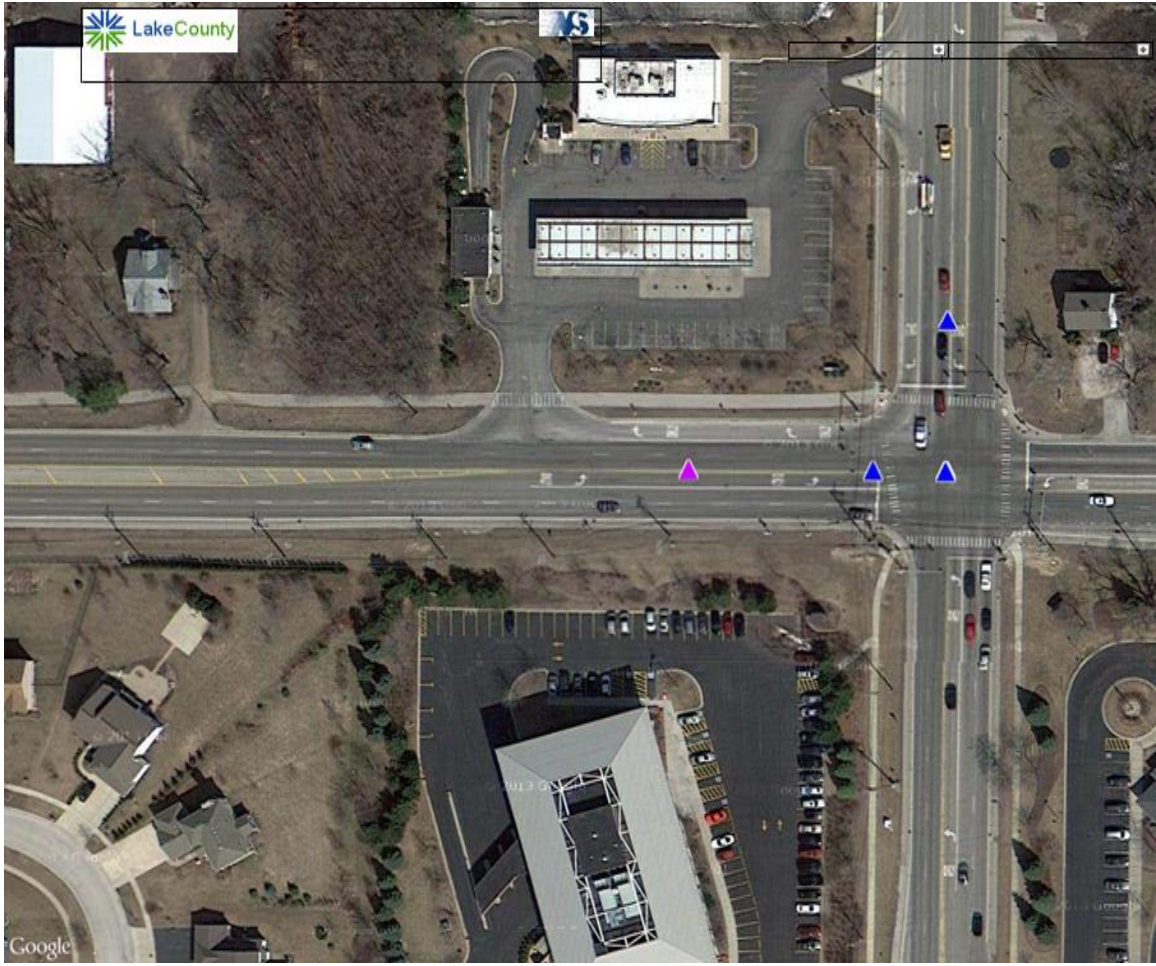
Accident Data

The crash data specific to the RLR location(s) for the 3-year period (Exhibit#1) prior to and for the period post (Exhibit#2) RLR Camera installation. The crash data shall include yearly collision diagrams of the intersection(s).

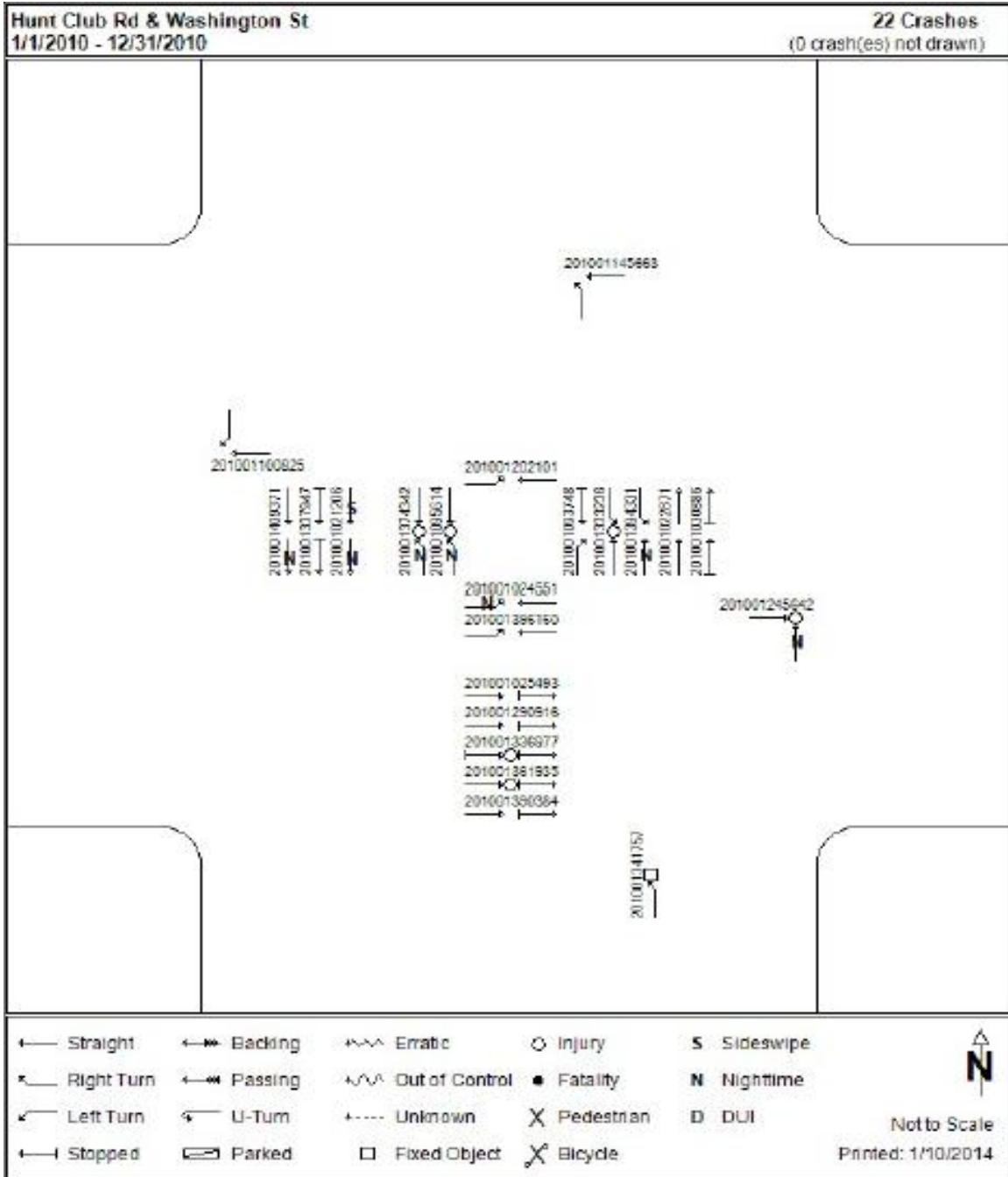
Exhibit #1



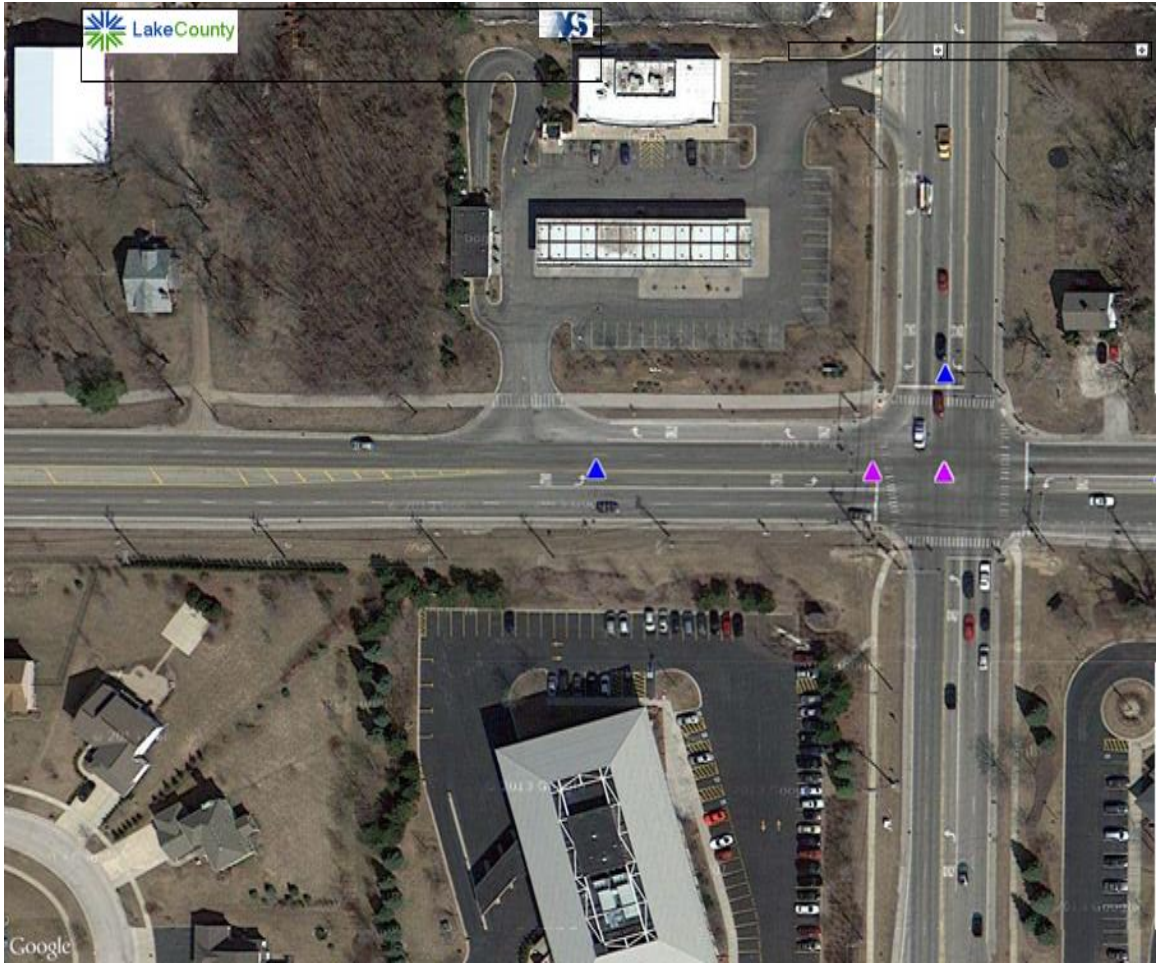
2010 Traffic Accident Map (Data located on Exhibit #1)



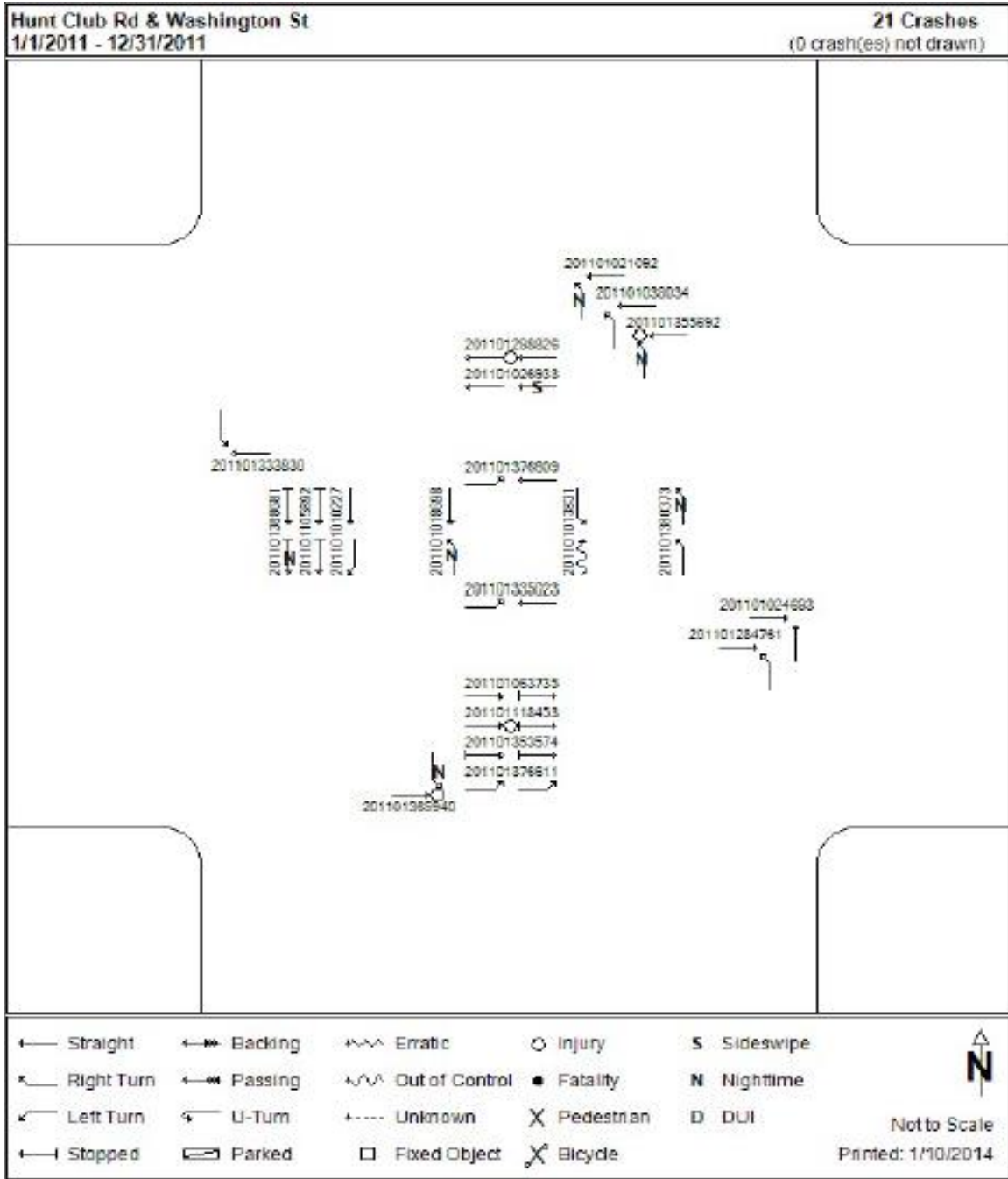
2010 Collision Diagram (Data located on Exhibit #1)



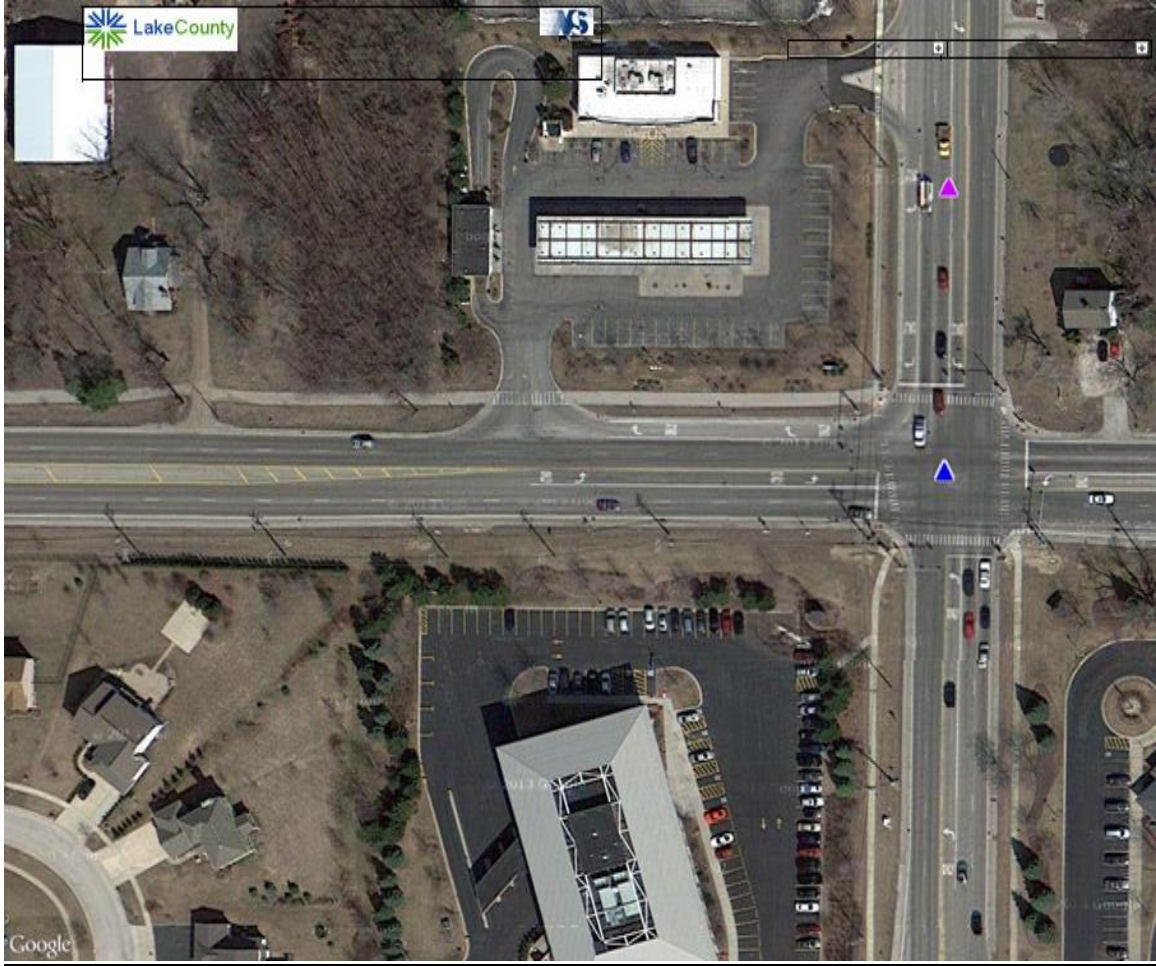
2011 Traffic Accident Map (Data located on Exhibit #1)



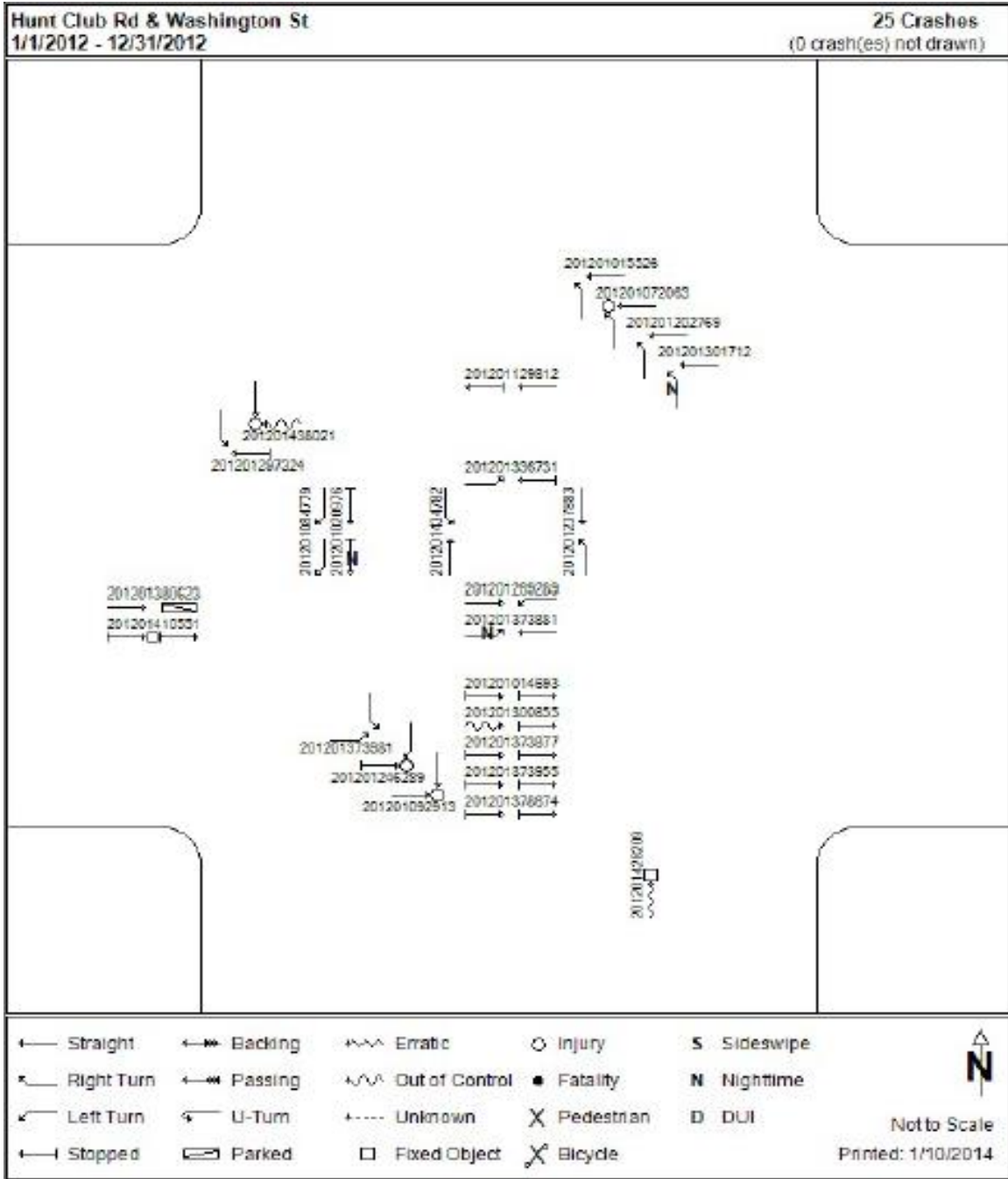
2011 Collision Diagram (Data located on Exhibit #1)



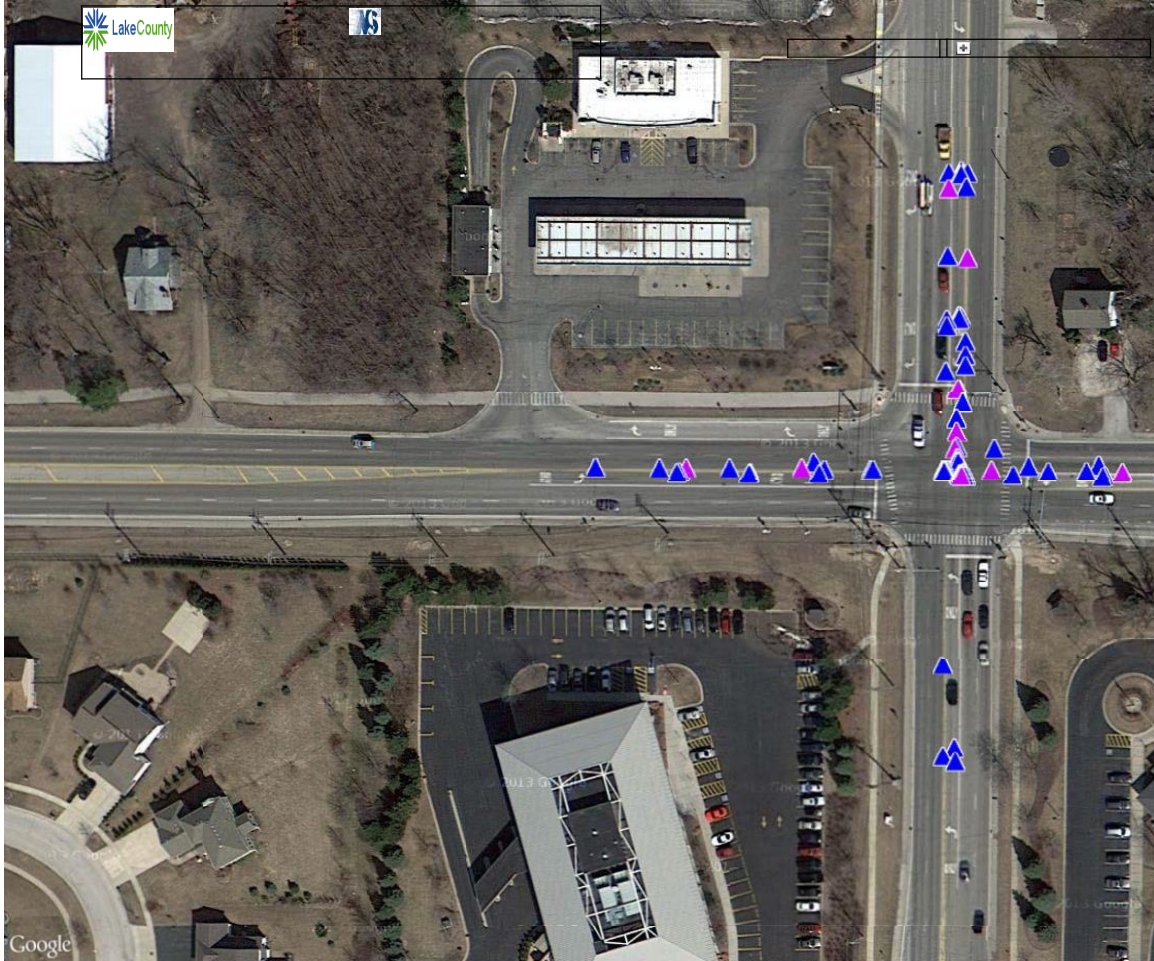
2012 Traffic Accident Map (Data located on Exhibit #1)



2012 Collision Diagram (Data located on Exhibit #1)



3 Year Traffic Accident Map (Data Located on Exhibit #1)



3 Year Collision Diagram (Data Located on Exhibit #1)

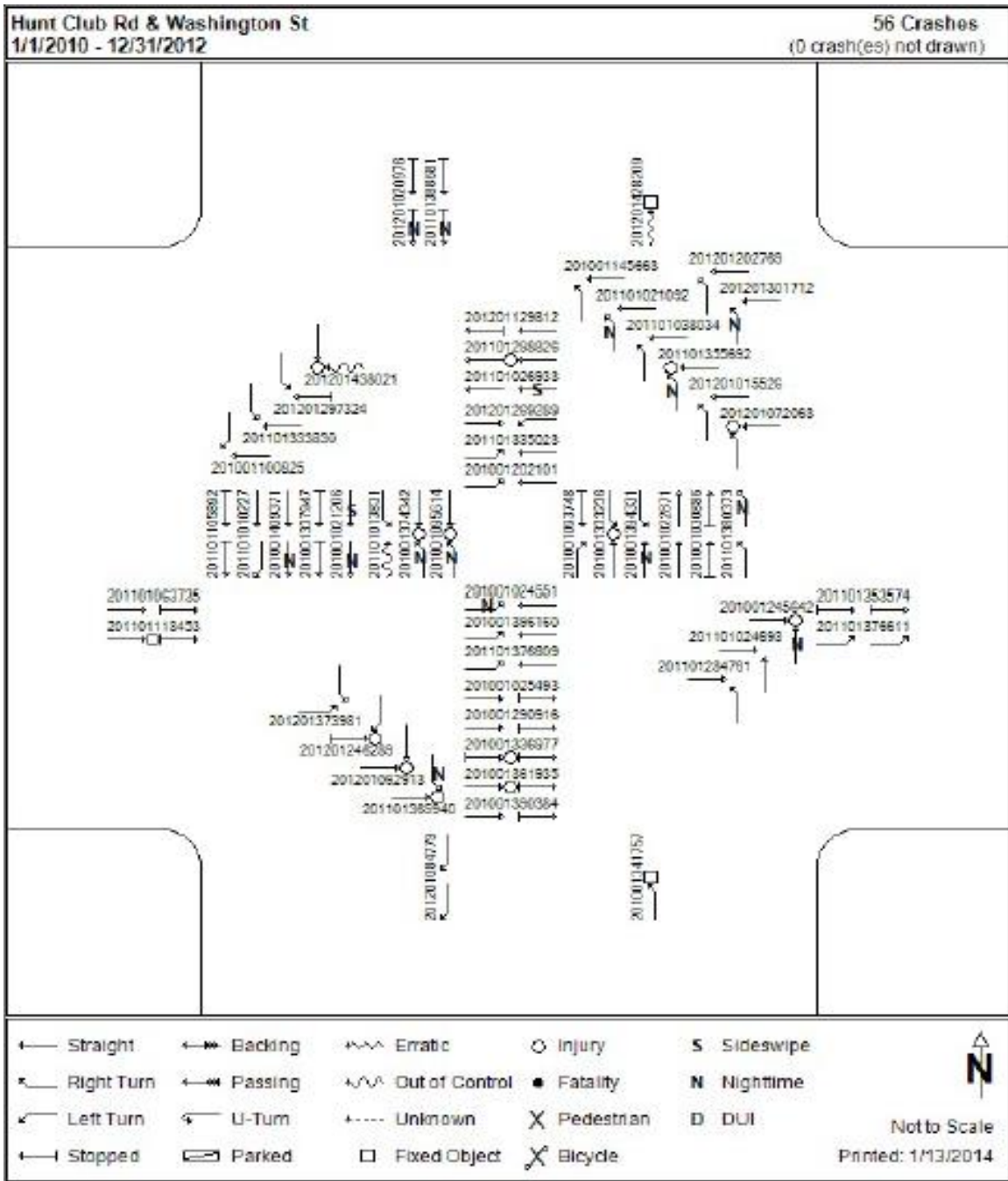
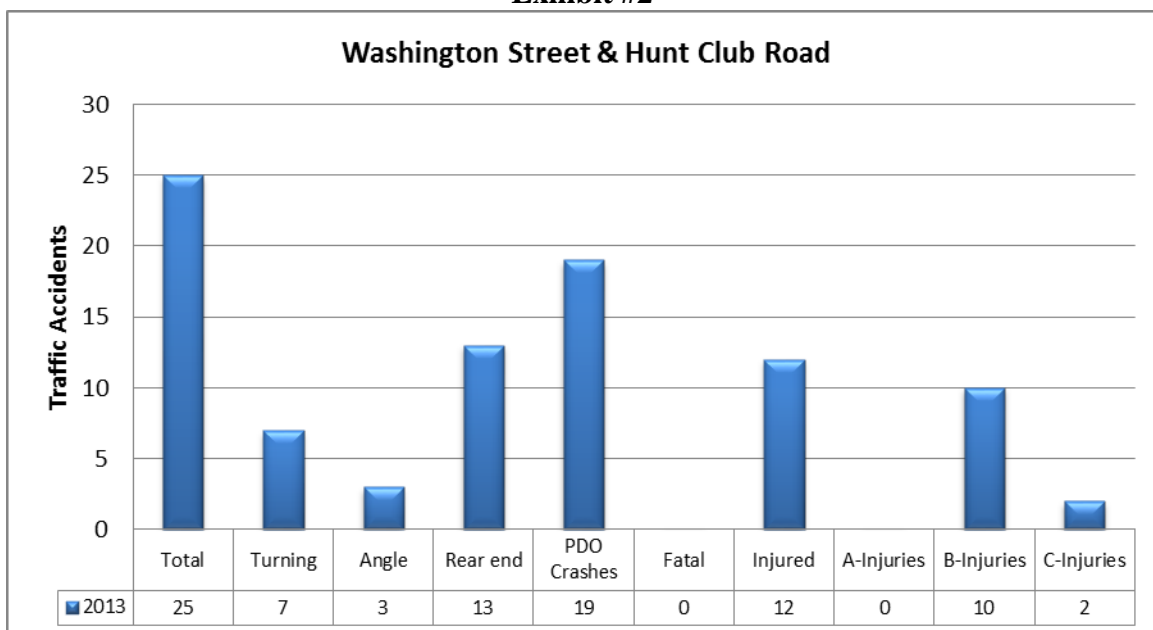


Exhibit #2



Note*** Data for this chart is from the Gurnee Police Department and it has not been reconciled with the Illinois Department of Transportation

Crash Data Analysis

The 3 year traffic accident data (Exhibit #1) shows the accident data for this period is consistent with the post RLR camera system installation. The post camera system accident data (Exhibit#2) does not give enough long-term data to draw a conclusion on the effectiveness of the RLR camera system. The only conclusion that can be drawn is the traffic accidents remained consistent, but the daily traffic volumes increased by 1300 vehicles per day.

Signal Timings

Signal timings and other settings before and after RLR camera installation.

The traffic signal timings are not under control of the Village of Gurnee. As such, we do not possess this information.

Traffic Volumes

Traffic volumes before and after RLR Camera System installation. The traffic volumes shall include both Average Daily and Peak Period traffic.

The average daily traffic counts are supplied by the Lake County Department of Transportation at: <http://lake.ms2soft.com>. The average daily traffic volume for the Intersection for the 3-years prior to photo enforcement is: 42,800 vehicles, per day.

The average daily traffic volume post camera installation increased to 44,100, vehicles per day. This is an increase of 1,300 vehicles per day.

The average daily traffic counts for each approach are supplied by the Illinois Department of Transportation at: <http://www.dot.state.il.us/maps/statistical.htm>. The traffic counts below reflect the 3-years prior and the post camera installation traffic counts

3-Years Prior (2010-2012)

Washington Street westbound - 21,800
Washington Street eastbound - 19,800
Hunt Club Road northbound - 17,500
Hunt Club Road southbound - 21,300

Post Camera Installation (August 2012)

Washington Street westbound - 21,079
Washington Street eastbound – 26,098
Hunt Club Road northbound – 18,560
Hunt Club Road southbound – 22,493

Recommendations

Recommendations to further reduce red light violations and severe crashes and to improve the operation of the intersection(s).

The recommendation is to keep the eastbound photo enforcement approach operational and to continue to analyze the intersection crash data over the next three years, to get a better sampling of post photo enforcement data. An improvement to the intersection is to grant a permit for the westbound Washington Street approach at Hunt Club Road. The infrastructure for this approach is already in place and is awaiting the permitting process to be finalized.

Note*** Per the Lake County Division of Transportation the westbound approach permitting process is on hold until AT&T moves the overhead cables that are interfering with the traffic signals.

Adjudication Process

Provide a summary of adjudication experience and results.

Our administrative adjudication system does not segregate enforcement approaches. As such, we are unable to provide data specific to Washington Street and Hunt Club Road.

During the examined time period we conducted 610 administrative hearings related to photo enforcement citations issued system-wide. Of those hearings,

464 of those were found to be Liable including those who failed to appear at their scheduled hearing.

Financial Report

Financial Report identifying the number citations issued, cost associated with the RLR Camera System and fees collected.

The total number of citations issued at the eastbound Washington Street at Hunt Club Road intersection from August 2012 through July 2013 was 1057. The total fine money collected was \$104,483.00. When you subtract the lease payments for the system for the same period totaled \$60,000. The net revenue to the village during this period was \$44,483.00.