

Gurnee Police Department Memorandum

TO: Chief Woodside

FROM: Traffic Safety Technician Chris Parr

SUBJECT: Follow-up Evaluation Report Washington & Hunt Club

DATE:02/22/2018

Chief Woodside,

Per the Lake County Division of Transportation policy on Red Light Running Camera Systems (RLR), we are required to present an evaluation report after three years of operation of a photo enforced intersection. The intersection at Washington Street and Hunt Club Road has been operational for three years and is due for the evaluation 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

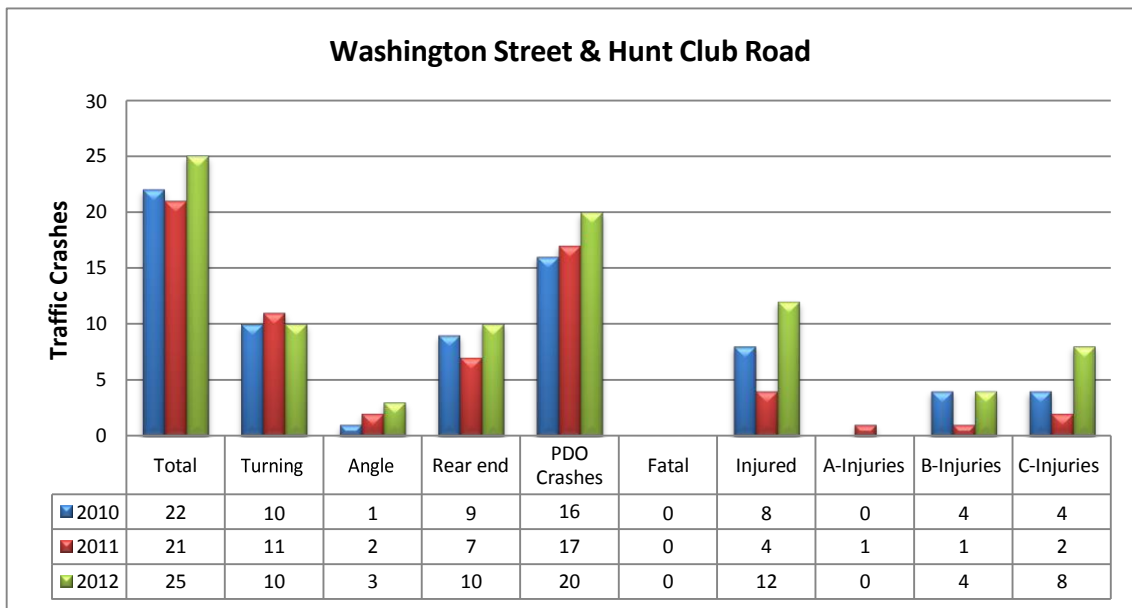
The Village of Gurnee is required to submit a Follow-Up Evaluation report to the Lake County Division of Transportation for the intersection of Washington Street and Hunt Club Road three years after the installation of a RLR Camera System. The first year evaluation report was completed by the Village and we are now submitting the three year follow-up.

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.

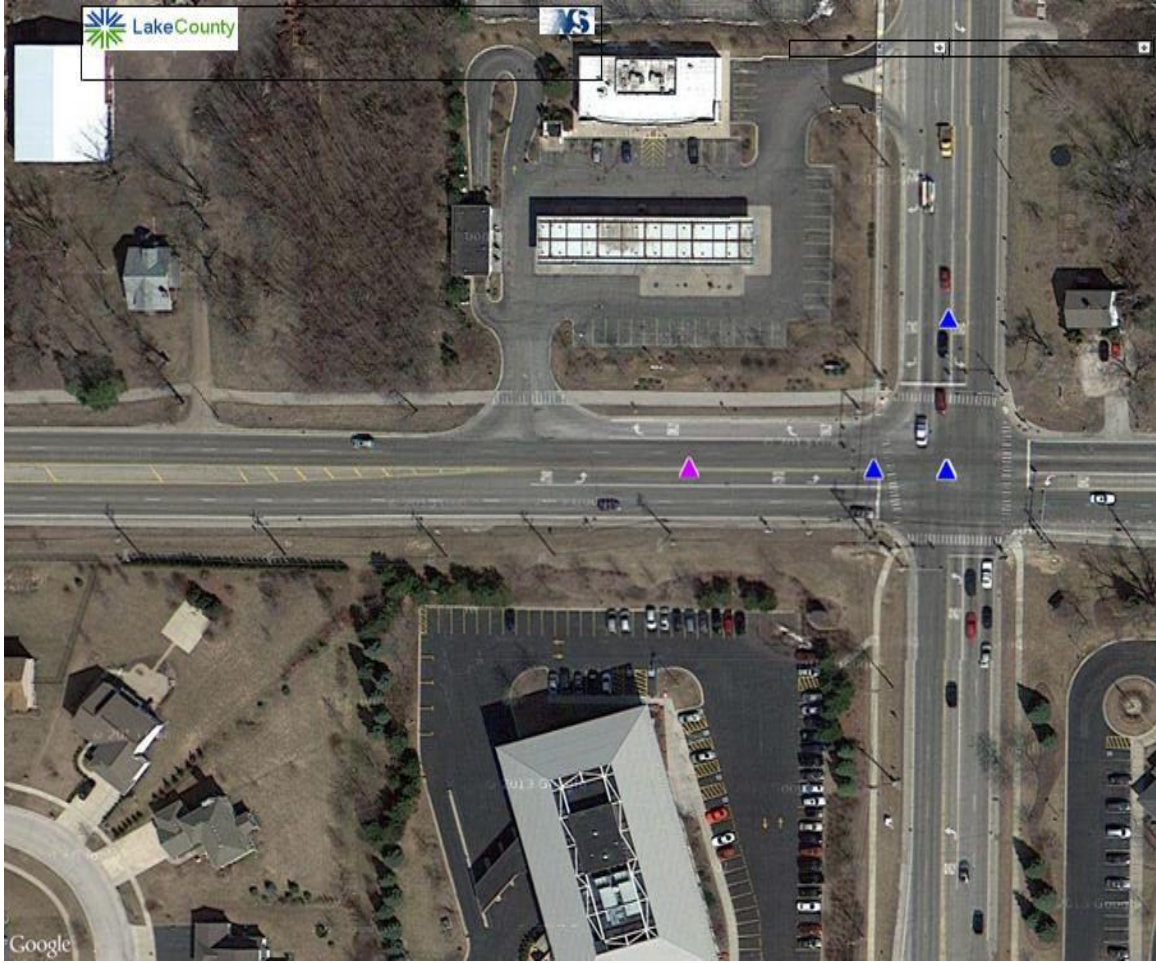
Crash Data

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).

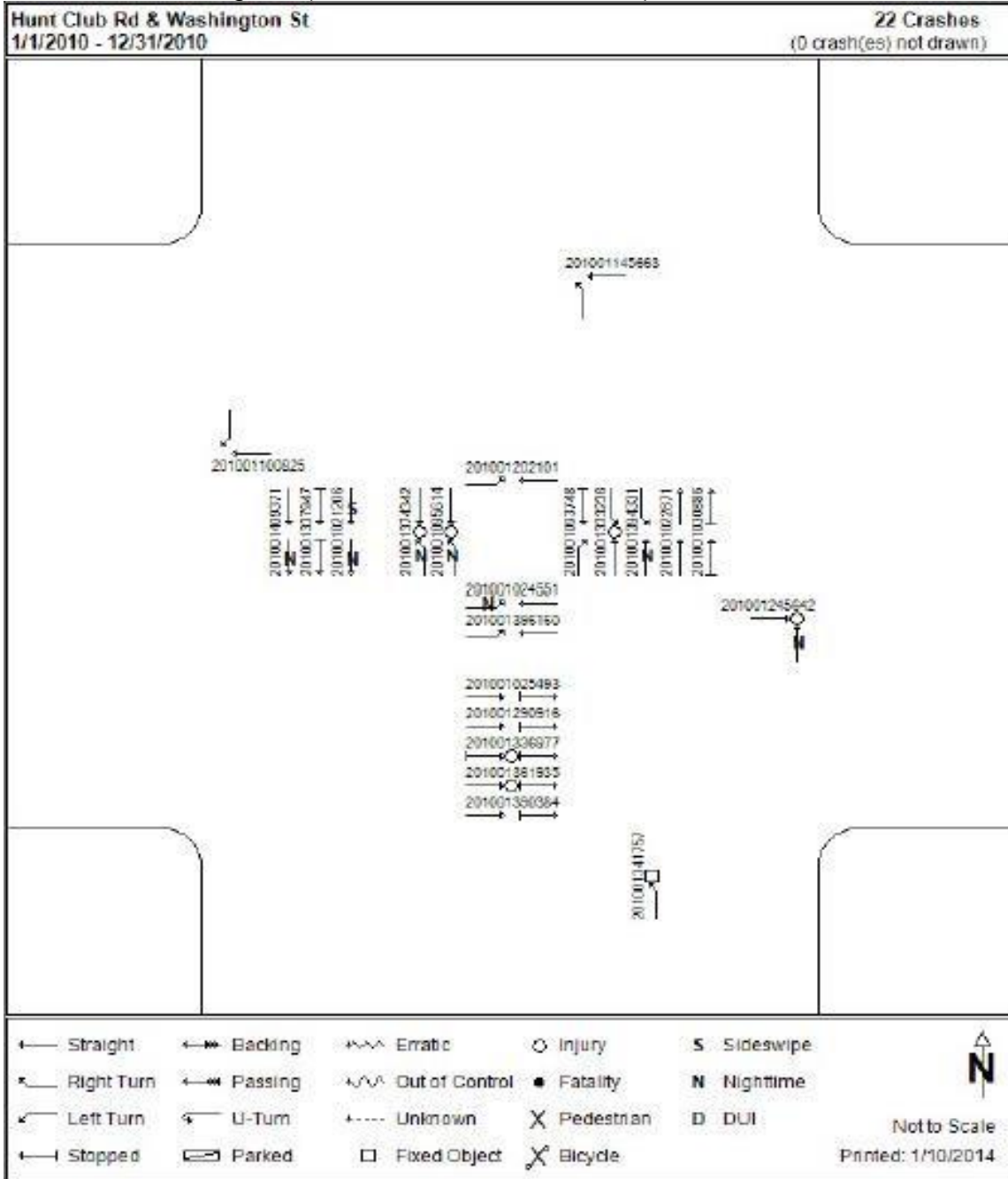
Exhibit #1



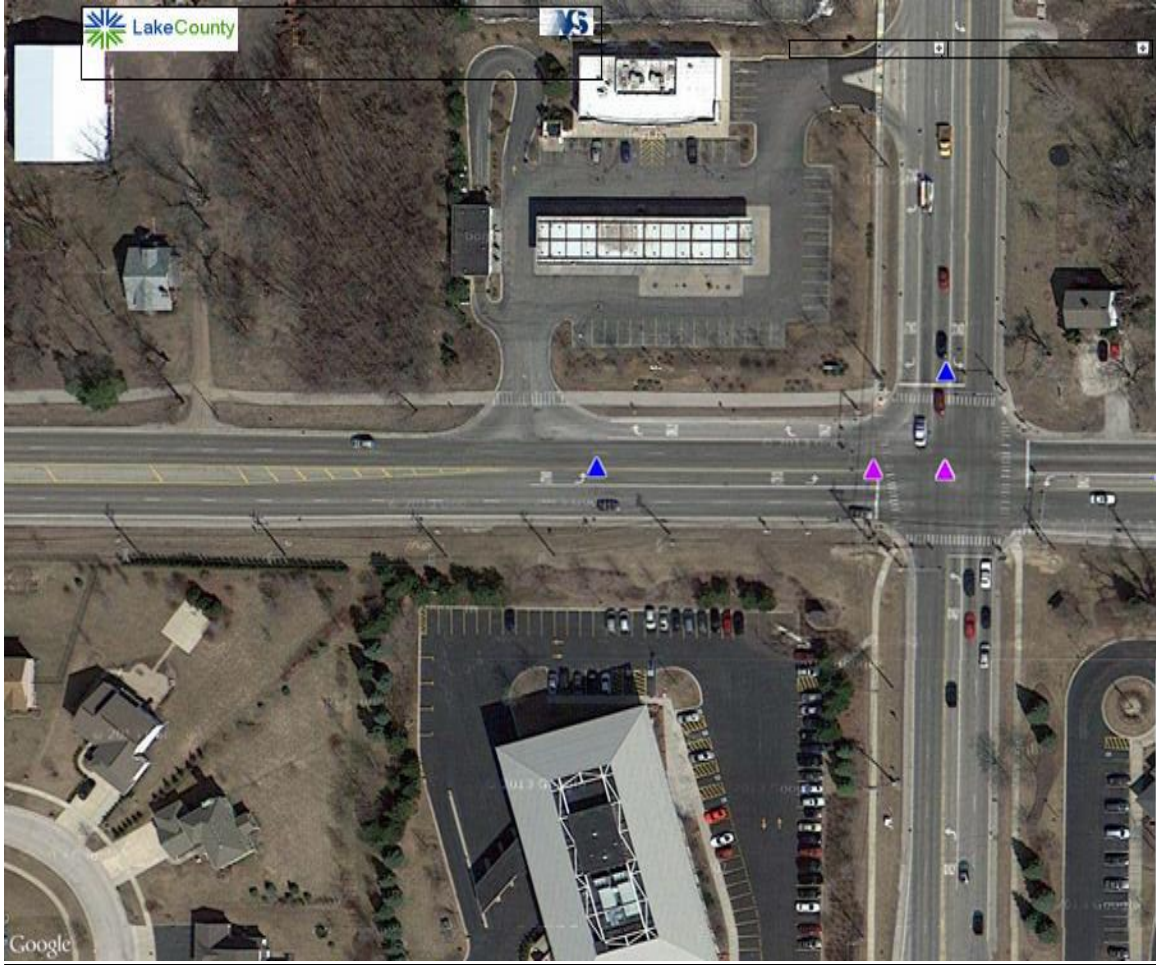
2010 Traffic Crash Map (Data located on Exhibit #1)



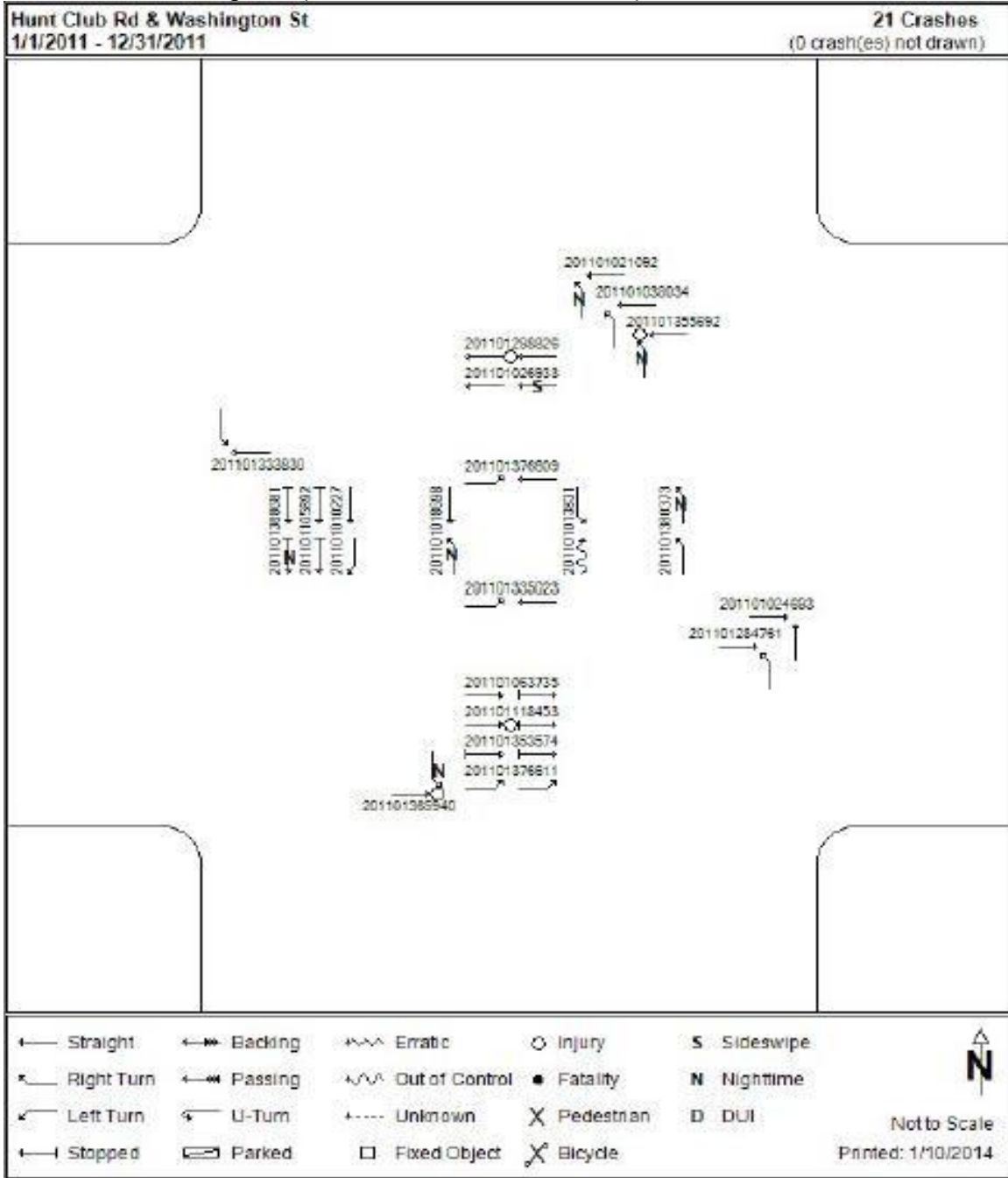
2010 Collision Diagram (Data located on Exhibit #1)



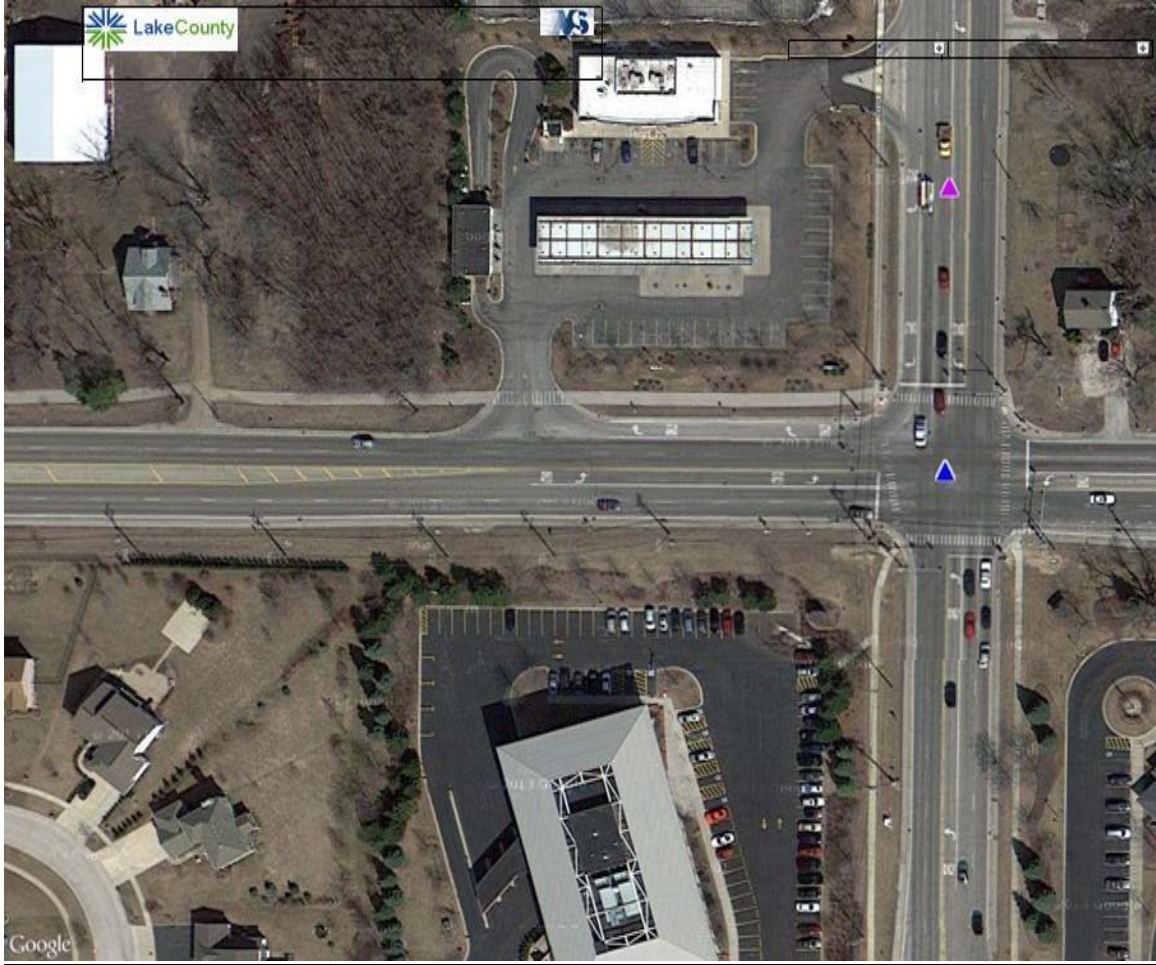
2011 Traffic Crash Map (Data located on Exhibit #1)



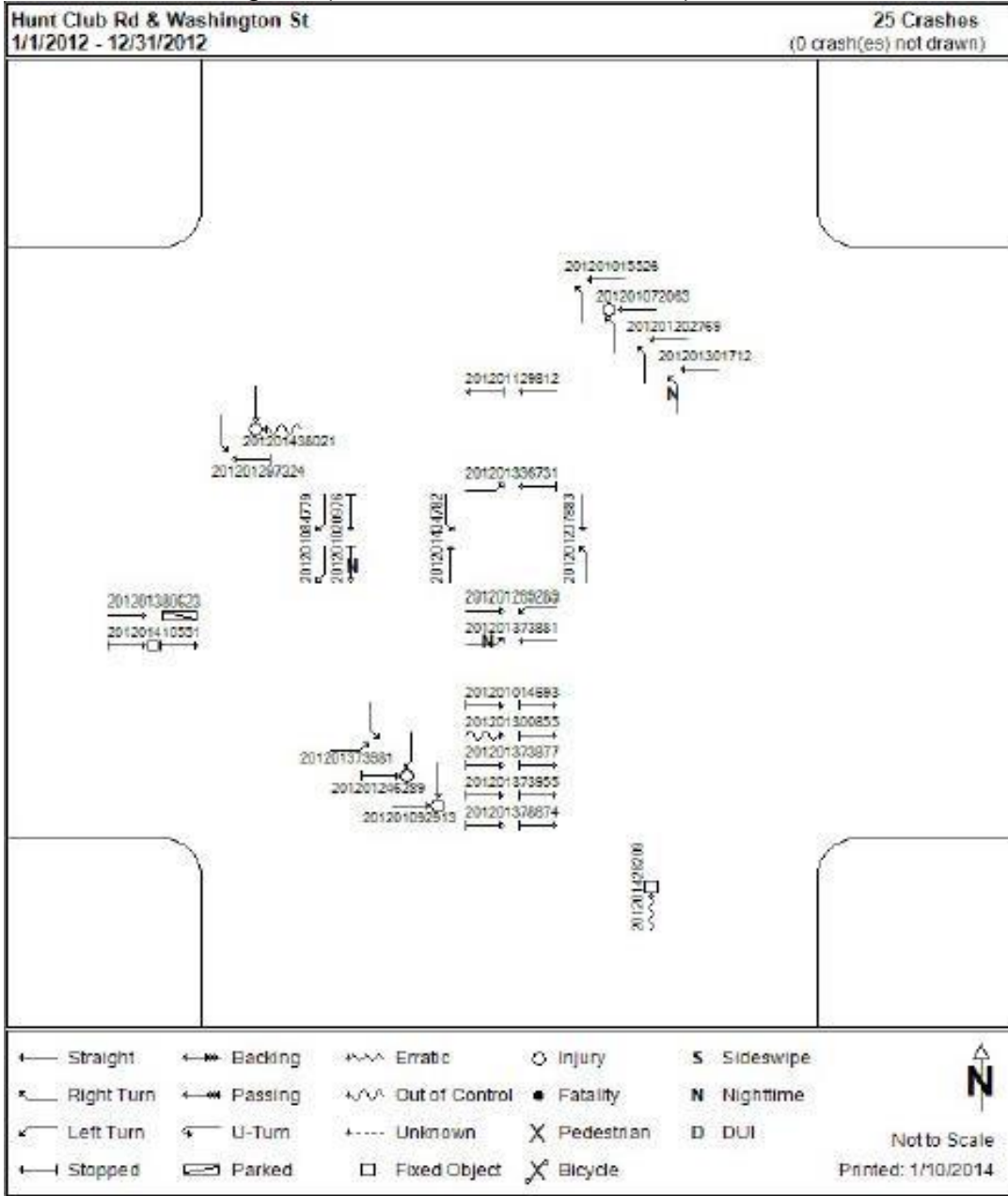
2011 Collision Diagram (Data located on Exhibit #1)



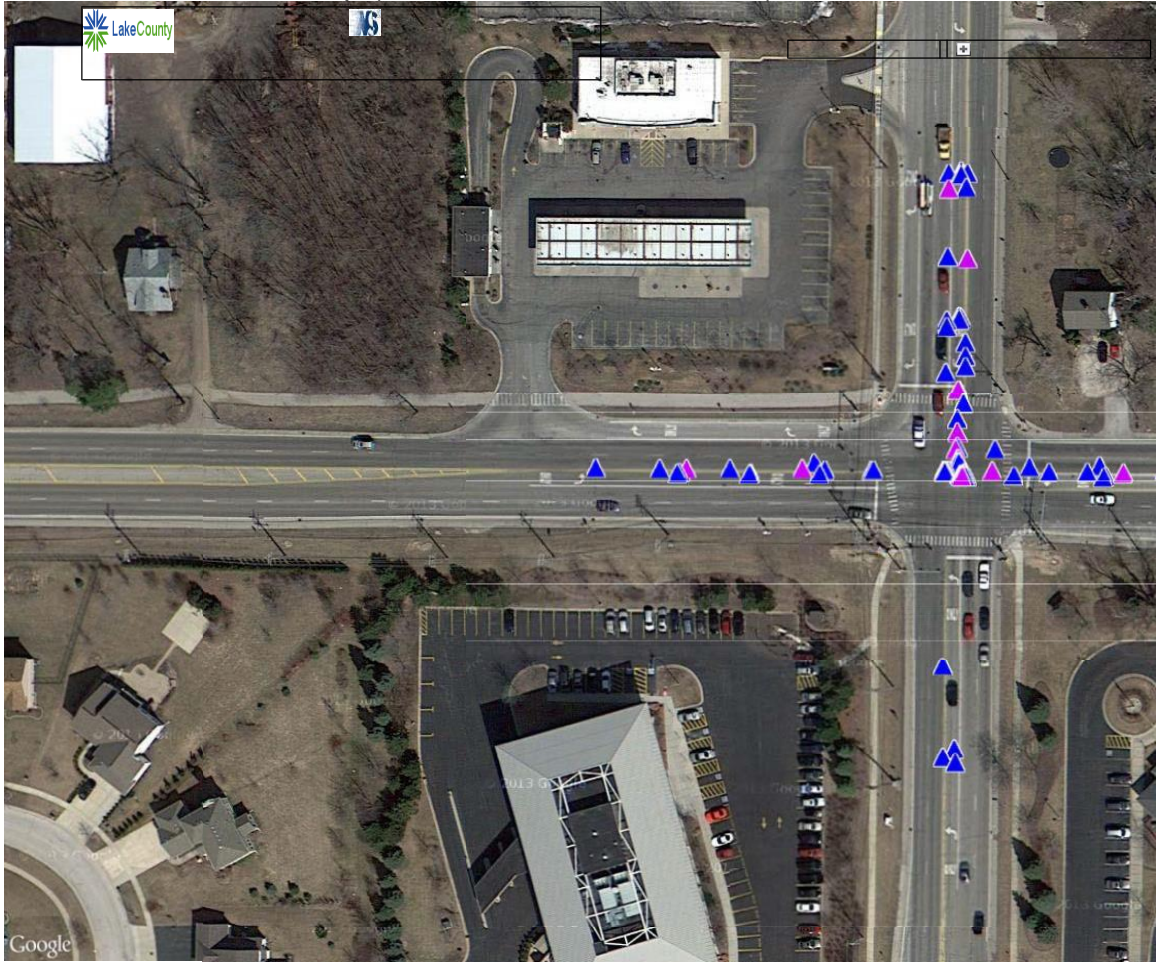
2012 Traffic Crash Map (Data located on Exhibit #1)



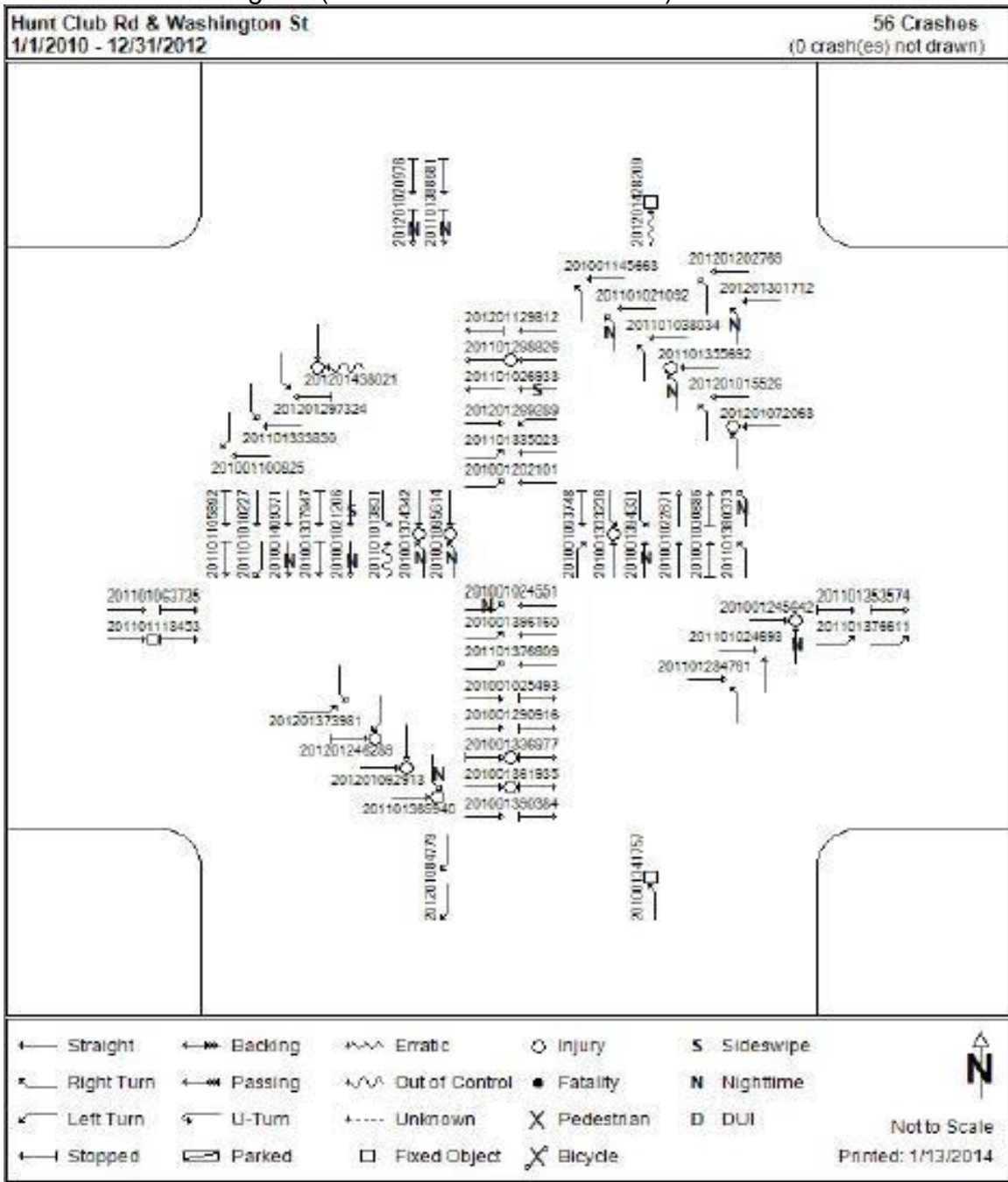
2012 Collision Diagram (Data located on Exhibit #1)



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



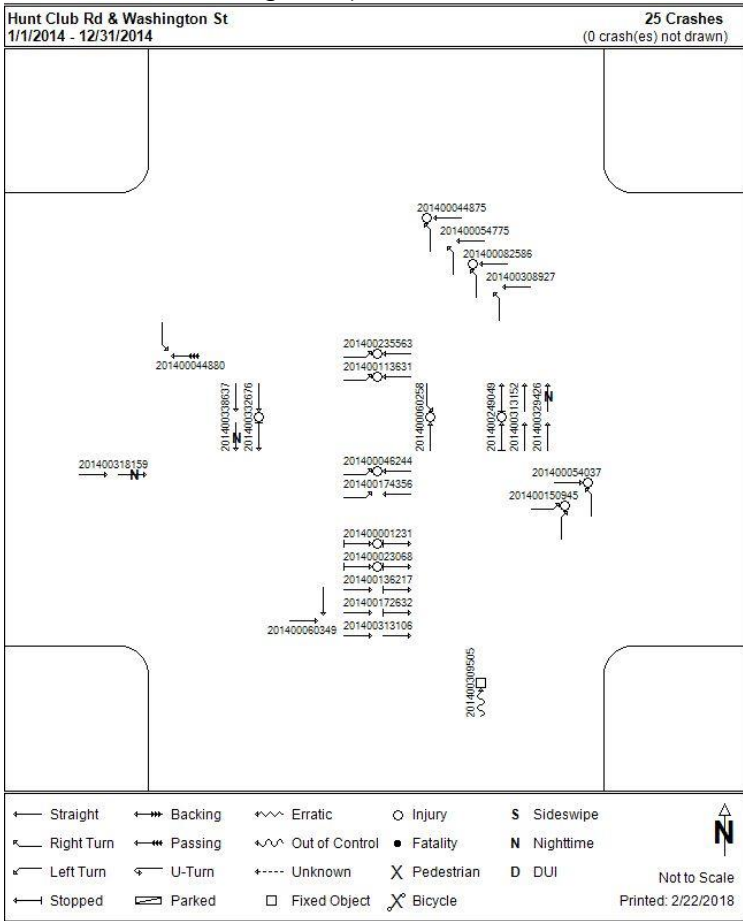
3 Year Collision Diagram (Data Located on Exhibit #1)



2014 Traffic Crash Map (Data Located on Exhibit #2)



2014 Collision Diagram (Data located on Exhibit #2)

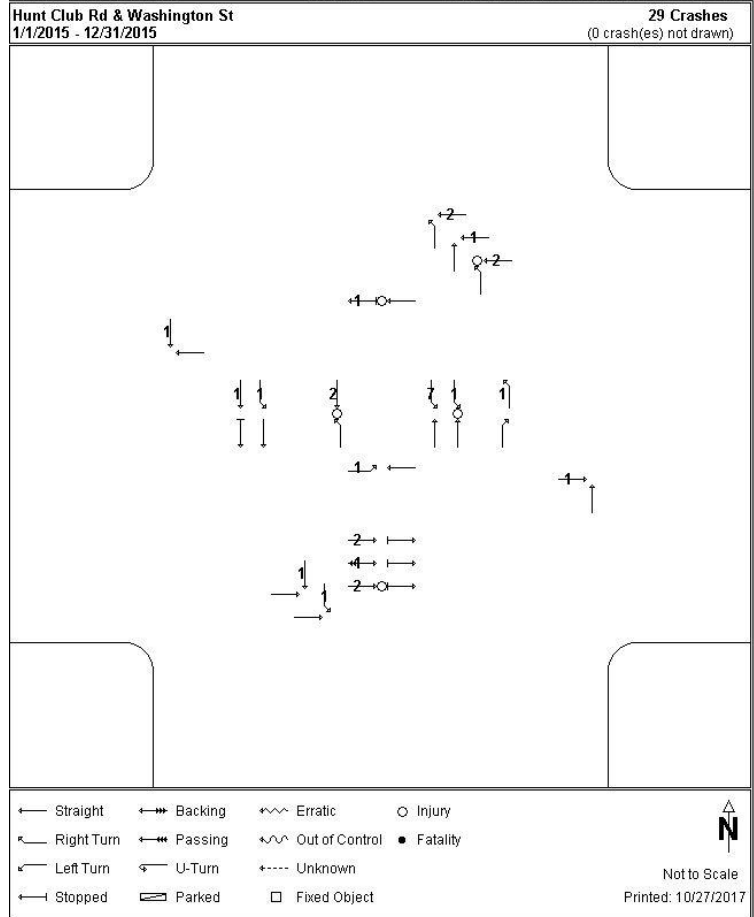


2015 Traffic Crash Map (Data Located on Exhibit #2)



2015 Collision Diagram (Data located on Exhibit #2)

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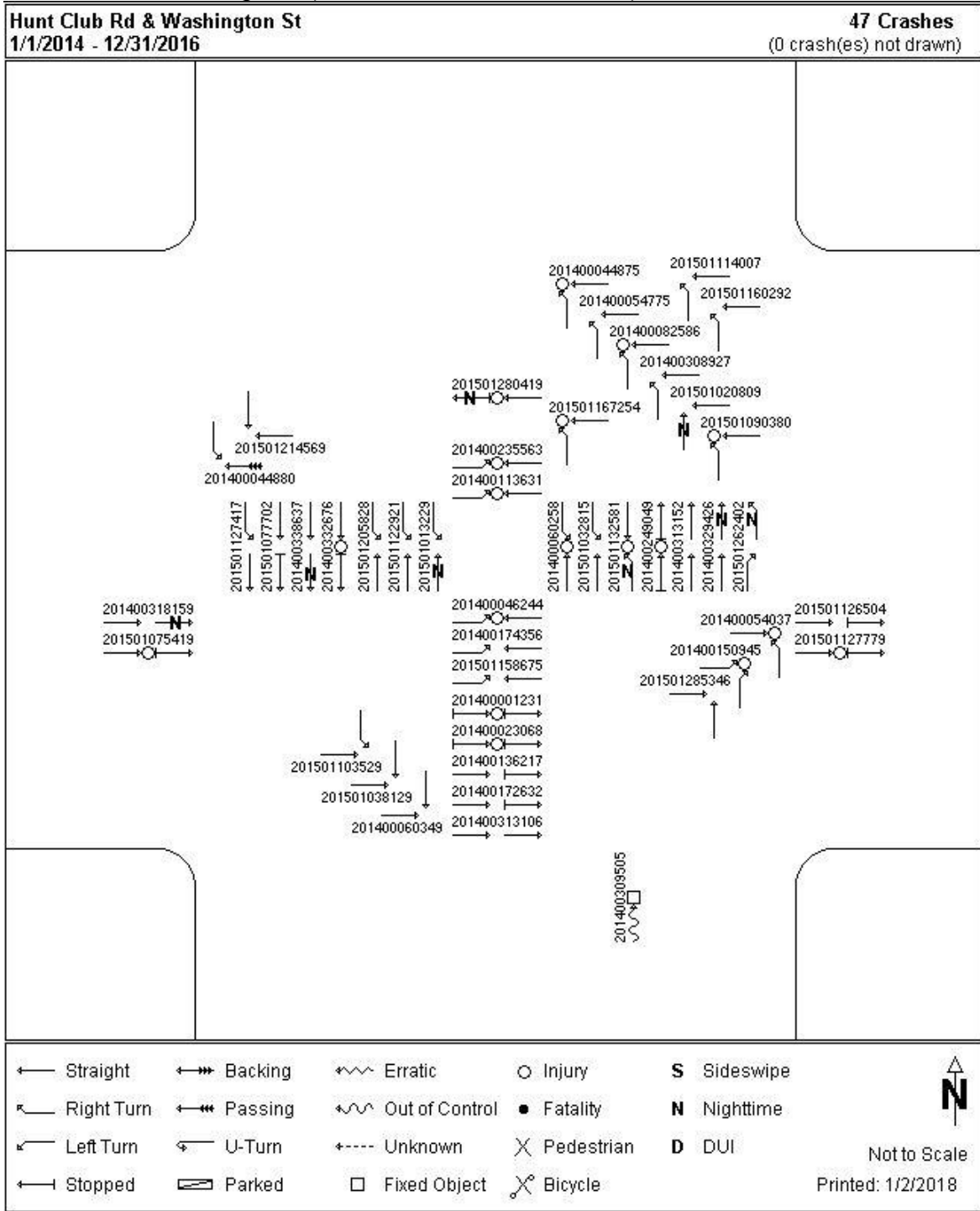


2016 Traffic Crash Map (Data Located on Exhibit #2)



2016 Collision Diagram not available through the LCDOT portal

3 Year Collision Diagram (Data located on Exhibit #2)



Note*** 2016 Collision data not available

3 Year Traffic Crash Map (Data Located on Exhibit #2)

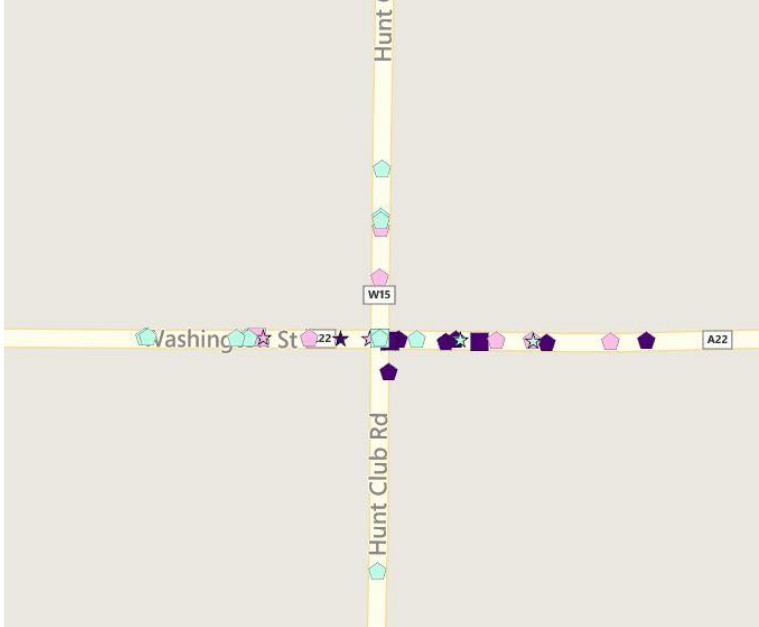
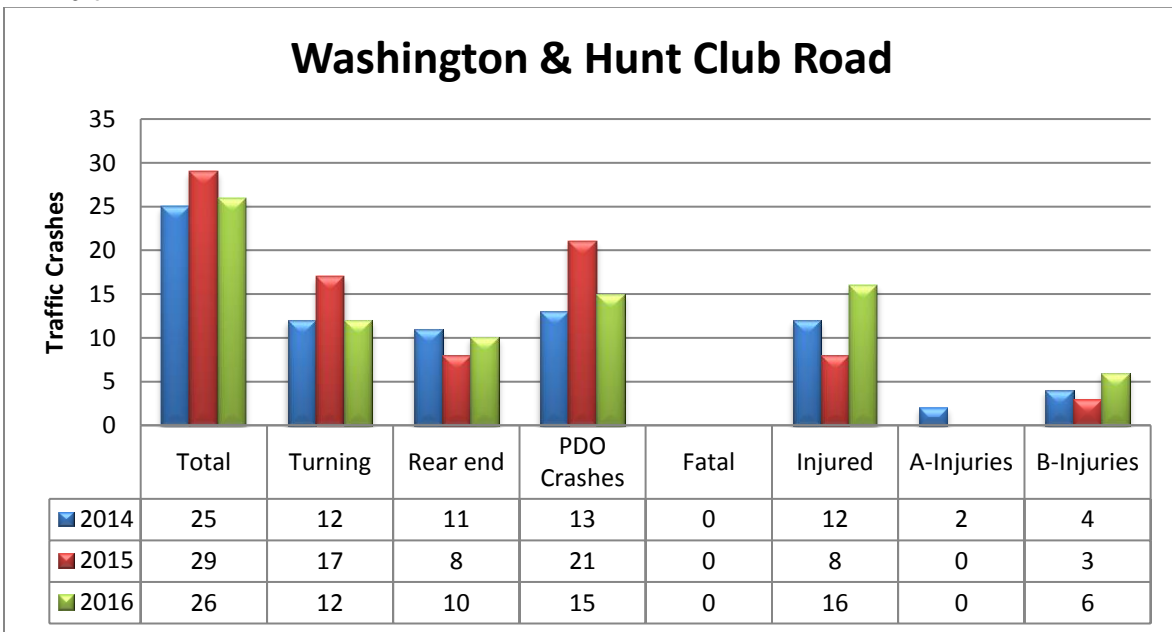


Exhibit #2



Note*** 2016 crash data is provisional

Crash Data Analysis

The 3 year traffic crash data average (Exhibit #1) shows the 3 year crash data average (26.6) for this period is the same as the 3 year post RLR system installation.

Signal Timings

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 Division 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 45,167 vehicles per day. This is an increase of 2,367 vehicles per day. The average daily traffic counts for each approach are supplied by the Illinois Department of Transportation at <https://www.gettingaroundillinois.com/gai.htm?mt=aadt>. The traffic counts below reflect the 3-years prior and the 3- year 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

3-Year Post Camera Installation (August 2016)

Washington Street westbound – 22,000 Washington Street eastbound – 21,000
Hunt Club Road northbound – 21,400 Hunt Club Road southbound – 13,200

Recommendations

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

There are two recommendations to improve the intersection: First, protect the left turn lanes for east and westbound traffic. Turning crashes appear to be consistent and by protecting the left turns would further reduce the potential for turning crashes. Next, is to grant the RLR Camera System permit for the westbound Washington Street approach at Hunt Club Road once the overhead cabling work is completed.

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 1,186 administrative hearings related to photo enforcement citations issued system-wide. Of those hearings, 846 were found to be liable including those who failed to appear.

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 approach from January 2014 through December 31, 2016 was 2,697.

The total fine money collected was \$215,471. When you subtract the lease payments, bank and various fees for the system during the same time period it totaled approximately \$158,400.

The net revenue to the village during this period was \$57,071.