VILLAGE-WIDE TRAFFIC STUDY

for
River Forest, IL
Cook County



Prepared by:



Prepared for:



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INTRODUCTION

The purpose of this Village-wide traffic study was to form a comprehensive outlook on traffic patterns and traffic safety within the Village and to identify areas for further study or recommendations based on engineering expertise. The study was centered around data acquired using volume & speed counts, crash analysis, survey feedback, and locations flagged by the Village (Two-Block Spans, Washington Blvd Corridor Study). In addition to this analysis, Thomas Engineering Group (TEG) developed a Traffic Calming Toolbox (Appendix A). A capacity analysis model was developed using Synchro traffic modeling software and is provided to the Village. All counted intersections are included within this model.

Locations selected for further individual review were identified through coordination with the Village and based on the results of initial data analysis. The selected locations were: Two-Block Spans, Washington Blvd Corridor Study, and Thatcher Ave Speed Study. Each analysis had different levels of review based on the data available and the proposed scope of the study. TEG performed a representative speed study at a two-block span location and made recommendations based off the findings within the single corridor reviewed. A similar level of analysis was utilized for the Thatcher Ave Speed Study where a small representative corridor was analyzed. The Washington Blvd Corridor had an in-depth corridor study including the creation of exhibits showing proposed improvements and alternatives. Due to the wide scope of this study, many locations reviewed were identified for review in smaller more focused studies.

COMMONLY USED TERMS

Throughout this report common terminology may be used without explanation. Definitions to these terms can be found within this section to help give context to the analysis.

General

Roadway Functional Classification: The way roads are categorized by the Illinois Department of Transportation (IDOT). TEG used road classifications throughout this document to discuss the general size and character of roads being studied. Please see Functional class exhibit within Appendix H.01: Functional Class Exhibit for a full breakdown of road classifications within the Village.

<u>Interstate</u>: Roads connected with long distance travel in mind. Interstates are designated by the Secretary of Transportation. (*none within study area*)

<u>Freeway/Expressway</u>: roads in this classification have directional travel lanes that are usually separated by some type of physical barrier, and their access and egress points are limited to on- and off-ramp locations. these roadways are designed and constructed to maximize their mobility function, and abutting land uses are not directly served by them. (none within study area)

Other Principal Arterial: These roadways serve major centers of metropolitan areas, provide a high degree of mobility and can also provide mobility through rural areas. Unlike their access-controlled counterparts, abutting land uses can be served directly. (North Ave & Harlem Ave)





<u>Minor Arterial</u>: These roads provide service for trips of moderate length, serve geographic areas that are smaller than their higher Arterial counterparts and offer connectivity to the higher Arterial system. In an urban context, they interconnect and augment the higher Arterial system, provide intra-community continuity and may carry local bus routes. (Lake St & Madison St)

<u>Collector</u>: Collectors serve a critical role in the roadway network by gathering traffic from Local Roads and funneling them to the Arterial network.

<u>Major Collector</u>: Generally, longer in length with limited driveway connectivity compared to minor collectors. Could have more travel lanes. (All 'primary' Village roads such as Thatcher Ave, Division St, and Washington Blvd)

<u>Minor Collector</u>: Generally, only two lanes of traffic and smaller than major collectors. (none within study area)

<u>Local Road or Street</u>: Roads not intended for long-distance travel. Local roads tend to have direct access to the abutting land.

<u>NE Quadrant</u>: The area of the Village previously studied by others and excluded from this study. Defined as the area bounded by North Ave to the north, Lathrop Ave to the west, Harlem Ave to the east, and Greenfield St to the south.

<u>Study Road Type</u>: This study utilized a combination of IDOT Road Classification and road characteristics to categorize all roads withing the Village into three types:

Arterial Road: Roads within the Village posted as 30 mph. North Ave and Harlem Ave

<u>Primary Road</u>: All roads within the Village that are classified as Collector or Minor Arterial. In addition, Augusta St is also included in this classification although it is classified as a Local Road.

<u>Local Road</u>: Roads within the Village classified by IDOT as Local Roads. These routes are generally low volume with minimal roadway features. Often no center striping and few businesses along the road.

Study Intersection Type: This study utilized traffic control type to categorize all intersections withing the Village into three types:

Signalized Intersection: Any intersection controlled by a traffic signal.

<u>All-Way Stop Intersection</u>: Intersections where all legs of traffic are expected to stop and yield right-of-way to traffic arriving at the intersection first. All legs have a stop sign with no direction having priority.

<u>Minor-Stop Intersection</u>: An intersection where the minor-leg is stopped using a stop sign. At these intersections, the major route always has priority while the minor route must stop for oncoming traffic.

<u>Signal Warrant</u>: Criteria or guidelines used by traffic engineers and transportation authorities to determine whether the installation of a traffic signal at a particular intersection is justified or





warranted. Installing traffic signals at intersections without meeting specific warrants can lead to inefficient traffic flow, increased congestion, and potential safety hazards. There are nine signal warrants, and meeting one or more of these warrants is required before a traffic signal can be installed. Meeting a warrant does not necessitate the installation of a new signal.

- Warrant 1, Eight-Hour Vehicular Volume
- Warrant 2, Four-Hour Vehicular Volume
- Warrant 3, Peak Hour
- Warrant 4, Pedestrian Volume
- Warrant 5, School Crossing
- Warrant 6, Coordinated Signal System
- Warrant 7, Crash Experience
- Warrant 8, Roadway Network
- Warrant 9, Intersection Near a Grade Crossing

<u>All-Way Stop Warrant</u>: Criteria or guidelines used by traffic engineers and transportation authorities to determine whether the installation of a multi-way stop sign at an intersection is justified or warranted. These warrants help ensure that stop signs are placed at intersections where they are truly necessary for safety and traffic control. The primary goal is to prevent unnecessary stops, reduce driver confusion, and improve traffic flow. Similar to signal warrants, meeting a warrant does not necessitate the installation of a new all-way stop control intersection.

<u>Level of Traffic Stress (LTS)</u>: an approach that quantifies the amount of discomfort that people feel when they bicycle close to traffic.

LTS 1: Bike routes suitable for children

LTS 2: Bike routes suitable for most adults

LTS 3: Bike routes suitable for "enthusiastic and confident" cyclists

LTS 4: Bike routes suitable for "strong and fearless" cyclists

Crash Terms

<u>Injury Type: The highest level injury caused as a result of a crash.</u>

K-injury: A fatal crash is a traffic crash involving a motor vehicle in which at least one person dies within 30 days of the crash.

A-injury: Any injury, other than a fatal injury, which prevents the injured person from walking, driving, or normally continuing the activities he/she was capable of performing before the injury occurred. This includes severe lacerations, broken/distorted limbs, skull injuries, chest injuries, abdominal injuries





B-injury: Any injury, other than a fatal or incapacitating injury, which is evident to observers at the scene of the crash. This includes lumps on the head, abrasions, bruises, minor lacerations.

C-injury: Any injury reported or claimed which is not listed above. This includes momentary unconsciousness, claims of injuries not evident, limping, complaints of pain, nausea, hysteria.

Property Damage (PD): A crash with no physical injury to the involved parties but may result in vehicular damage or damage to nearby property.

Crash Type:

<u>Rear End</u>: Any collision involving two vehicles where the rear of one vehicle comes into the contact with the front of another vehicle. This type of crash is most common at stop locations.

<u>Angle</u>: Crash at an intersection (or driveway) involving two vehicles that were on separate perpendicular (or angled) routes, commonly referred to as a "T-Bone". Either vehicle may be proceeding straight or left at the intersection.

<u>Sideswipe Same Direction</u>: Collisions involving two <u>drivers</u> heading in the same direction where one or both drivers leave their lane and impact the side of another vehicle with the side of their own vehicle. Often these crashes happen in similar situations to those that result in rear end crashes. In some cases, a driver avoids a rear end crash and in the process, causes a <u>sideswipe</u> same <u>direction</u> crash.

<u>Sideswipe Opposite Direction</u>: A crash between drivers heading in opposing directions. Sideswipe opposite direction crashes is a result of a lane departure and these crashes have the potential to result in a head on crash.

<u>Turning Left</u>: A type of crash resulting when two vehicles enter the intersection from opposite directions, with one of the vehicles turning left and the other proceeding straight.

<u>Turning Right</u>: Right turning crashes are a type of perpendicular crash where one driver is entering a roadway by turning right where they are struck from the side/rear prior to completing the turn.

<u>Fixed Object</u>: A single vehicle collision involving a road user and an immoveable object. Parked cars are not considered fixed objects since they can be moved.

<u>Overturned</u>: A single vehicle collision (often roadway departure) resulting in a driver's vehicle to flip over.

<u>Head On</u>: A crash type resulting from one or both drivers leaving their lane and crashing into the front end of the other driver. Generally resulting in severe injuries due to the opposing directions and combined speeds of both drivers involved.

<u>Pedestrian</u>: Any crash involving a pedestrian and a vehicle. High potential for severe injuries due to the exposed nature of pedestrians using roadways.





Other Object: A collision involving a moveable object. Oftentimes these crashes are between road users and parked cars. Additionally, crashes can involve road debris or any other non-living object that may cause an obstruction in the road. For the purposes of this study unspecified other-objects will be considered parked cars.

Animal: Any collision between a vehicle and an animal.

<u>Pedalcyclist</u>: Crashes involving a cyclist and a vehicle. Similar to pedestrian crashes cyclists are exposed and unprotected when in the road leading to a high potential for severe crashes.

Other Non-Collision: Incidents along the road involving a vehicle and not resulting in a collision i.e. driving off-road and rolling a vehicle.

<u>Correctable Crash</u>: Any crash type that could be prevented by the installation of a stop sign or signal.

Capacity

<u>Level of Service (LOS)</u>: The average amount of delay experienced by a driver as they navigate an intersection. Measured in seconds.

<u>LOS A</u>: Free flow traffic conditions - users are practically unaffected by the presence of other drivers. Signalized: Under 10 seconds of delay. Unsignalized: Under 10 seconds of delay.

<u>LOS B</u>: Steady traffic conditions - presence of other vehicles begins to effect driver behavior. Signalized: 10-20 seconds of delay. Unsignalized: 10-15 seconds of delay.

<u>LOS C</u>: Steady but limited traffic conditions - choice of speed is limited by traffic and maneuvering requires vigilance. Signalized: 15-25 seconds of delay. Unsignalized: 20-35 seconds of delay.

LOS D: Steady traffic at high density - reduced speeds and maneuverability. Drivers may wait through more than one signal cycle at signalized locations. Signalized: 35-55 seconds of delay. Unsignalized: 25-35 seconds of delay.

<u>LOS E</u>: Traffic at saturation - low but uniform speed and reduced maneuverability. Signalized: 55-80 seconds of delay. Unsignalized: 35-50 seconds of delay.

<u>LOS F</u>: Congestion - unstable speed with the formation of waiting lines at several points. Cycles of stop and departure with no apparent pattern. Signalized: More than 80 seconds of delay. Unsignalized: More than 50 seconds of delay.

<u>Saturation Flow Rate</u>: The maximum number of cars that can utilize a lane within one hour. Typically assumed to be 1,900 under ideal conditions.

<u>Average Daily Traffic (ADT)</u>: A key metric used in transportation planning and traffic engineering to describe the average number of vehicles that pass a specific point on a road or highway over a 24-hour period. Defined as a standard weekdays traffic volume (Tuesday-Thursday).





Speed

<u>85th Percentile Speed</u>: The speed at which 85% of drivers use the road. Drivers traveling above the 85th percentile speed are considered to be exceeding the safe and reasonable speed for road and traffic conditions. Oftentimes speed limits are set based on 85th percentile. In speed studies, an 85th percentile speed significantly over the posted speed limit is indicative that there is a speed issue.







VILLAGE SURVEY ANALYSIS

To gain a better understanding of the priorities and preferences of Village residents, Thomas Engineering Group (TEG) created a survey with a broad range of questions related to Traffic and Safety in the Village. The goal of the survey was to better guide TEG's approach to Village improvements and to help identify locations where there is a perception of unsafe conditions that may not currently result in elevated crashes or poor level of service (LOS). The survey had a total of 31 questions and not all respondents were given all the questions. Not all questions/responses will be directly utilized in this study as some were included for potential future use or indirectly utilized to gain a better understanding of resident preferences.. The questions can be divided into several categories:

- General Respondent Information: Initial questions to locate respondents within the Village and gain an understanding of how respondents use the roads.
 - Questions 1 & 2
- Local and Village-wide speed survey: Questions to gauge respondents' feelings about speeds on their local roads as well as primary roads in the Village.
 - o Questions 3 & 4
- Local stop survey: Questions about respondent impression of stop sign usage along their roads. Large numbers of drivers not obeying stop signs indicate potential operational concerns.
 - o Questions 5 & 6 (open ended)
- Cut-through traffic impressions: These questions were to gauge respondent impression of drivers using residential Village roads specifically to avoid traffic on larger non-residential streets. This was something noted as a concern by the Village prior to the start of the study.
 - Questions 7 & 8 (open ended)
- Road features and operation survey: Questions asking respondent opinions on road improvements, signing in the Village, sight conditions, and lane configurations. These questions helped to gain a deeper insight into respondent preferences and impressions of areas TEG flagged as potential areas of concern.
 - o Questions 9-12, 25-27
- Washington Blvd survey: These questions were only answered by road users who answered that they regularly used Washington Blvd or lived on or near the street. All responses were incorporated into the Washington Blvd Corridor Study.
 - Questions 13-21
- Bike survey: Questions about cyclists' impression of roadways in the Village. This gave TEG a better idea of if a resident would be comfortable starting to use a bike as a local mode of transportation or if it was seen as dangerous.
 - o Questions 22-24





- NE Quadrant opinions: Questions allowing respondents to give opinions on the NE Quadrant improvements previously performed by the Village including an open-ended response section. Response data was conveyed to the Village, but not analyzed within this study due to that area of the Village being excluded from this study.
 - o Questions 28-30
- Open response: An open-ended response for respondents to give opinions not addressed within the survey.
 - o Question 31

A total of 1,032 residents responded to the survey. This accounted for nearly 10% of the Village population and shows a high level of community investment from Village residents. This is encouraging for future education and outreach plans seeing that so many residents took the survey and often gave detailed openended responses when given the opportunity.

Below is a brief summary of several questions response data to highlight TEG's findings that may not be detailed elsewhere in the report. A complete summary of all response data can be found in Appendix B.01: Survey Response Graphs and Data.

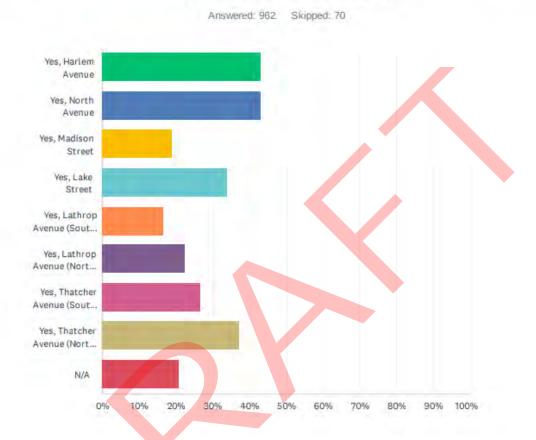






SPEEDS ON MAJOR ROADWAYS

Q4 Do you feel speed is an issue on any of the major roadways within the Village? (Select all that apply)



TEG wanted to see which major roads in the Village were most known for speeding. The two largest arterials in the Village, North Ave and Harlem Ave were expected to get a large number of responses due to their characteristics. Additionally, the northern half of Thatcher Ave and Lake St both had elevated response rates. This data along with individual responses helped TEG to select Thatcher Ave as a location for individual review.





TRAFFIC CALMING OPTIONS

Q9 What (if any) traffic calming measures would you like to see used more within the Village? Select all that apply.



Figure 1. Responses: Wat if any traffic calming measures would you like to see used more within the Village?

TEG wanted to gauge the popularity of traffic calming implements that are being considered throughout the Village. It was reassuring that less than 10% of respondents selected "None of the above" and many respondents gave additional feedback in the open-ended response area. From the data, it is apparent that most respondents would like to see more forms of traffic calming used within the Village. TEG agrees and would recommend using a variety of traffic calming measures in order to achieve the best effect along the improved route.

It was noted that more residents wanted to see speed humps than raised intersections even though both countermeasures achieve a similar effect. TEG believes this could be due to a lack of knowledge about raised intersections are implemented that could be addressed using outreach programs. TEG found in many of the open responses, respondents would mention not wanting curb extensions because of the effect they have on cyclists. While this can be true, it is possible to design curb extensions with bike lane pass-throughs or other design variations that incorporate bike lanes. Knowing this is a concern TEG will consider bike facilities in any areas where curb extensions are being proposed.





TEMPORARY ONE-WAY LOCATIONS

Q10 Several Village roads near schools are marked as one-way roads during school hours. Do you feel there is confusion around when two-way traffic is allowed on these roads?

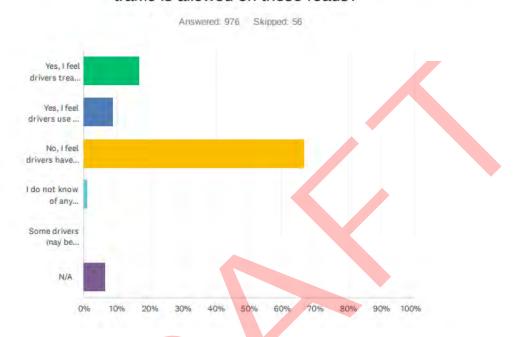


Figure 2. Responses: Do you feel there is confusion around when two-way traffic is allowed on these roads?

Q11 At temporary one-way locations do you feel signage could be improved to make it more clear when the roads are operating as one-ways

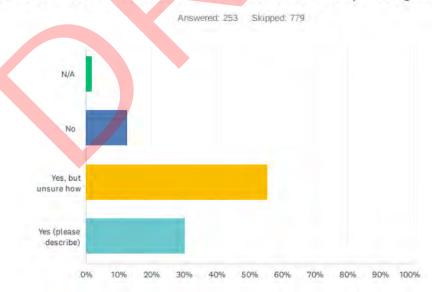


Figure 3. Responses: At temporary one-way locations do you feel signage could be improved to make it more clear when the roads are operating as one-ways?





TEG noted that overwhelmingly respondents in question 10 believed residents were accustomed to the temporary one-way locations. In the next question, residents who did feel the temporary one-ways were confusing were asked if signage could be improved. Most of these respondents said signage could be improved, and within the open response section many respondents suggested larger signs or blocking the roads. TEG agrees that signing could be improved at these locations, and suggests that the one-way restriction be changed from 'on school days' which is ambiguous for those not aware of school schedules to 'all weekdays'. This would remove ambiguity from the location and makes the locations safer for kids in summer programs who may be used to one-way traffic in the area.







THATCHER TURN OPINIONS

Q27 Thatcher Avenue north of Chicago Avenue has an imbalanced lane configuration with two southbound lanes and one northbound lane. Due to the unique lane configuration, the curving road, and speed issues reported in the past, the Village would like to get an idea of how safe drivers feel turning onto Thatcher Avenue from the side roads. Please rate your level of comfort turning onto Thatcher Avenue in the section between North Avenue and Chicago Avenue?

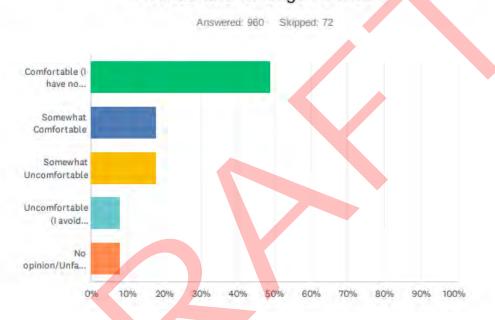


Figure 4. Responses: Please rate yo<mark>ur level of</mark> comfort turning onto Thatcher Ave in the section between North Ave and Chicago Ave?

It was surprising that most drivers were comfortable turning onto Thatcher Ave. While studying the location for the individual study, TEG found significant speeding that we believed would result in driver discomfort entering Thatcher Ave from the side streets. Seeing this is not the case supports the hypothesis that drivers have gotten used to the speeding along Thatcher.

Despite drivers being comfortable turning onto Thatcher Ave, TEG found that there were elevated rates of injuries when crashes did occur. More study may be necessary to understand diver behaviors in this area.

RESULTS

TEG created multiple exhibits using survey data that will be seen elsewhere within this report. Survey responses were kept in mind prior to making recommendations. Open ended responses were reviewed and considered in final recommendations but due to the wide variety of answers and varying amounts of detail/information given TEG decided to not review those responses here. The volume of respondents was far exceeding the expected response rate for a community of this size. While this was beneficial to get as many opinions as possible it made concise analysis of open-ended responses impossible.





Capacity Analysis

Thomas Engineering Group (TEG) was tasked with creating a traffic model of the Village including all existing traffic counts and any traffic counts performed as part of the Village-wide Traffic Study. The traffic model allows the Village to simulate new lane configurations or intersection layouts prior to implementation in the Village to get an idea how changes will impact the system. The advantage of a complete Village-wide traffic model over individual intersection modeling is the ability to see how intersections interact with each other.

The model was created using Synchro 11 Traffic modeling software. The traffic model is set up as an overlay on an aerial of the Village showing all primary roads and any other roads with recent traffic counts. Currently there are 35 counted locations and an additional 24 uncounted intersections within the model. The system is set up in a way that the Village can continue to add to and maintain the model to eventually have a functional simulation of all roads within the Village and how they interact during peak hours. This helps the Village identify traffic issues and bottlenecks to implement more effective countermeasures. This also allows the Village to avoid making changes that will push traffic towards routes operating near capacity. TEG modeled a new signalized intersection within the Crash Analysis and modeled lane changes within the Washington Blvd Corridor Study and Thatcher Ave Speed Study. Results are discussed within those sections of this report.

The model allows TEG to assess the level of service (LOS) at all counted intersections to assure drivers are not waiting too long to pass through an intersection during peak hours. A failing LOS is any intersection with a LOS below D. All intersections with failing LOS within the study area are shown below:

AM Peak Hour:

Lathrop Ave @ Division St: LOS E

PM Peak Hour:

- None

It was noted that all but one location with a failing LOS was in the NE Quadrant of the Village which is excluded from this Village-Wide Traffic Study. TEG modeled the area using traffic data collected as part of the Northeast Neighborhood Traffic Study (2022). These intersections that are not within TEG's study area are not included in this discussion due to changing conditions in the Northeast Quadrant.

The intersection between Lathrop Ave and Division St was identified within TEG's crash analysis as a top 10% crash location. TEG performed a signal warrant and Warrant Five and Seven were met. Meeting a signal warrant does not require that the Village install a new signalized intersection at this location, but TEG would strongly recommend the Village consider new signal installation based on crashes and surrounding land use with nearby school facilities. A more detailed review of this intersection and corresponding recommendations can be found in the Crash Analysis section of this report.

In the PM peak hour conditions, the intersection between Lathrop Ave and Division St has a LOS of D, which is nearly failing. TEG modeled the intersection using the existing lane configuration as a signalized intersection and found LOS improved to a B (See Appendix C.03: Alternate Volumes & Level of Service – AM and See Appendix C.04: Alternate Volumes & Level of Service - PM).





TEG concluded the analysis of the counted locations determining that most roads in the Village are operating smoothly at existing traffic volumes. There were several locations where individual movements were failing. Generally, failing individual movements were seen at minor leg stop locations or locations with high numbers of left turns, but in these cases the overall intersection was still operating properly.

A full breakdown of all analyzed intersections can be found in Appendix C.01: Volumes & Level of Service – AM and Appendix C.02: Volumes & Level of Service – PM.







CRASH ANALYSIS

Thomas Engineering Group (TEG) was tasked with compiling and analyzing the crash data for every segment and intersection within the Village of River Forest (excluding the NE quadrant where a study has already been conducted). Crash data was originally collected for the years 2016-2020 but as TEG was processing the initial data the 2021 crash year became available. Since the 2016 data was already processed, TEG decided to include the 2021 data and complete the crash analysis using six years as opposed to the standard five. The additional year should only improve the overall analysis, especially since 2020 crash year was skewed by the COVID-19 Pandemic. Crash data during this time is still applicable but crash patterns may be different from pre/post-pandemic crash patterns.

TEG used our proprietary in-house crash processing program to organize crashes based on segment/intersection. Crashes were then compiled and analyzed based on crash type, crash year, injury type, and any on-road conditions such as wet pavement of nighttime crashes. This allows us to observe crash patterns from year to year and cross reference Google Earth imagery to verify the years when changes were made. Sometimes, simple changes like a new sign will result in a high crash rate intersection having a significant reduction in total crashes after the improvement was placed. Spotting these changes is important to prevent recommending unnecessary further improvements to a road that has already implemented countermeasures to address a crash problem. At all intersections, TEG provided a crash diagram showing the direction and orientation of vehicles involved in crashes.

Crashes were analyzed based on raw crash data provided by IDOT. Individual crash reports were not analyzed due to lack of available reports from the state. When analyzing an intersection, TEG looked for recurring crashes or crash patterns. TEG takes any crashes that appear to have a common cause and uses factors like the time of day, driver direction, and drivers stated intention (going straight, turning left, etc.) to link the crashes together and find a common solution. Crash analysis is the first stage in taking locations that may have existing issues and finding the best path forward to identify and eventually address the cause of the recurring crashes.

After crashes were processed each location was given a weighted score based on the number of crashes and the severity of injuries. We utilized a common industry practice of assigning 1, 2, 5, 10 and 25 points, to Property Damage Only, C-injury, B-injury, A-injury and Fatal crashes, respectively. The top 10% of all intersections and segments received a full crash analysis, while the remaining locations only received the initial screening and crash score. This equated to nine segment locations and 12 intersection locations for a total of 21 locations The threshold score for intersections was 27 and for segments was five. Crash summaries and crash diagrams (for intersections) for these top 10% locations are provided in Appendix D.01: Top 10% - Segment Crashes & Appendix D.02: Top 10% - Intersection Crashes.

Just because a location met the minimum threshold for detailed analysis does not indicate any changes will be needed or that there are any crash patterns that need addressing. Elevated crash rates or injury rates are required to meet the threshold for analysis, but they do not inherently indicate a persistent crash pattern.





SEGMENT CRASH ANALYSIS

Segments were divided into 3 peer groups: Local, Primary, and Arterial. Arterial roads consist of the segments on Harlem Ave and North Ave. These segments were not included in the analysis due to the routes being owned and maintained by the state which limits improvement options for the Village. Additionally, the speed limit of 30 mph on both roads gave them a different character and faster operating speed than any other road in the Village. Primary and Local roads were identified in the initial phases of the project. A more comprehensive explanation can be found in the Commonly Used Terms section. The peer groups were used to prevent any one segment type from becoming too prevalent in the top 10% locations. When reviewing, we wanted to look at the top 10% of both the Local and Primary segments to gain a better understanding of all Village roads. It can clearly be seen in the table below that Local segments had much lower crash scores compared to the Primary segments.

Route	From	То	# Crashes	PG	Score	PG Rank
Madison St	Forest	Park	9	Primary	29	1
Madison St	Franklin	Ashland	18	Primary	25	2
Thatcher Ave	Augusta	Division	6	Primary	20	3
Division St	Monroe	Bonnie Brae	3	Primary	15	4
Forest Ave	Madison	Vine	1	Local	10	1
Oak Ave	Forest	Park	2	Local	7	2
Edgewood Pl	Lake	Thatcher	1	Local	5	3
Clinton Pl	Quick	Oak	1	Local	5	3
Ashland Ave	Lake	Oak	1	Local	5	3

Table 1. Top 10% segment crash locations.

Individual segment analyses are listed below:

Madison St: Forest Ave to Park Ave: 9 Crashes 1 A-injury, 2 B-injuries, 3 C-injuries

4 Rear End: 2 C-injury

2 Turning Right: 1 C-injury

1 Fixed Object: 1 A-injury

1 Turning Left: 1 B-injury

1 Pedalcyclist: 1 B-injury

This segment of Madison St contains one lane per direction and a center two way left turn lane. Within the segment on the south side of Madison there is an entrance to Concordia Cemetery and Van Buren St intersection. East of the entrances and Van Buren St, there is an at grade train crossing with gates for cars but not pedestrians. Nearby land use is primarily multi-family housing north of Madison St and south of Madison is primarily businesses. On-street parking is not provided in the segment. The areas where parking would be provided currently have diagonal striping and act as an eight foot paved shoulder. The eastern terminus at Park Ave has existing curb extensions.





The segment has multiple points where a driver may stop either for a train or to turn into one of the southern driveways. It is likely the four rear end crashes were a result of drivers stopping to turn or to wait for a train and the driver behind them not reacting quickly enough resulting in a crash.

Two-thirds of all crashes involved an eastbound driver (five crashes exclusively involving eastbound drivers and two including northbound drivers). The remaining two crashes involved either only northbound drivers or northbound and southbound drivers. There were no crashes involving westbound drivers within the segment.

The high rate of injuries in this segment suggests drivers may be colliding at high speeds. Most crashes occurred at the railroad crossing or at Van Buren St (including the pedalcyclist crash). Based on TEG field visits, it was observed Van Buren St traffic has difficulty seeing eastbound traffic while stopped at the stop sign. It is possible that eastbound traffic is either moving too fast for drivers on Van Buren to safely find gaps on Madison St or high vehicle volume is causing drivers to attempt to fit into small gaps in traffic. Since there are only nine total crashes through the segment (one to two crashes per year), it is difficult to establish a definitive pattern. At this tune TEG would not recommend taking any action in this segment.

Madison St: From Franklin St to Ashland Ave: 17 Crashes 1 B-injury, 2 C-injuries

5 Angle: 1 B-injury

4 Turning Right

3 Other Object

2 Turning left: 1 C-injury

2 Sideswipe Same Direction

1 Pedestrian: 1 C-injury

This segment of Madison St is along a business lined corridor and serves as a transition point from the more residential area to the west to a business district in the east. The road runs east and west with one lane per direction and a signalized intersection in the center of the segment. There are several parking lots with driveways entering the road, multiple auxiliary turn lanes, street parking, and curb extensions throughout the corridor. It is a high-volume segment with lots of opportunity for drivers to enter or exit Madison St. South of Madison St (outside the Village) Jackson Blvd is located in the center of the segment and is a signalized intersection. This segment had the most crashes in the Village but had the second highest score due to lower crash severity.

Despite the lack of severe injuries, the segment has seen high rates of angle crashes and crashes involving drivers turning right onto Madison St. It was noted that angle crashes were primarily between northbound and eastbound drivers where the northbound driver was turning left; four of the five angle crashes follow this pattern. These crashes may be occurring away from the signalized intersection involving drivers turning from commercial driveways. Due to the constrained conditions of the corridor with buildings set between 6-15' back from the road, sightlines for drivers sitting at driveways may be compromised. Increasing sightlines without major construction on the buildings may be difficult or impossible. High volumes along Madison St exacerbate the problem as drivers waiting to turn have fewer and shorter gaps between vehicles.





The large number of driveways coupled with poor sight conditions due to buildings too close to the road is an existing condition the Village cannot easily change. Improving visibility of oncoming traffic at the driveways as much as is possible with the nearby buildings or restricting left turns onto Madison St may help to reduce the number of angle crashes within this segment. It seems that crashes peaked in 2018 with eight out of the total 17 crashes occurring in that year. TEG did not see evidence of roadway changes in historical imagery, but it is possible changes downstream impacted traffic along this segment. Since angle crashes primarily occurred between drivers on the south leg (outside the Village), there are limits to what can be done outside of informing Forest Park (responsible municipality) of the situation. At this time TEG recommends no further action along this segment.

Thatcher Ave: From Augusta St to Division St: 6 Crashes 1 A-injury, 1 B-injury, 1 C-injury,

3 Rear End: 1 B-injury

2 Fixed Object: 1 A-injury

1 Other Object: 1 C-injury

This segment of Thatcher Ave was analyzed on its own as part of a speed study in the area. An in depth analysis of this location and its bounding intersections' crashes can be found in the Thatcher Ave Speed Study section of this report.

Division St: From William St to Bonnie Brae: 3 Crashes 3 B-injuries

1 Rear End: 1 B-injury

1 Other Object: 1 B-injury

1 Sideswipe Same Direction: 1 B-injury

This segment of Division St is a two-way street with striped bike markings for shared lane usage (aka 'sharrow') and parking on both sides. The road has center striping and striped parking lanes. Concordia University and Fenwick High School have facilities south and north of Division St respectively. Grace Lutheran school is located at the east end of the segment on Bonnie Brae. Division St is a collector with an average daily traffic (ADT) of 6,500 and ends at Thatcher Ave to the west. Division St also provides access to Dominican University near the intersection with Thatcher Ave. The large number of schools and school facilities (especially high schools and universities where students may have personal vehicles they need to park) will result in high traffic volumes and high parking utilization during specific parts of the day.

Division St has seen three total crashes in the six years of crash data studied suggesting that there are no recurring crash patterns. All three crashes resulting in B-injuries were surprising, considering the speed limit is reasonably low at 25 mph and the types of crashes were not the more dangerous head on or perpendicular crash types (Angle). With the knowledge that this segment of Division St has a considerable number of facilities for kids/young adults who are of driving age, it is possible that more prevalent speeding through the corridor resulted in more severe crashes than would otherwise have occurred. Since crash frequency is relatively low, there is no reason to make any changes or commit to further study. If crash rates along any part of Division St begin to spike, TEG recommends a speed study as a first recourse to see if speed conditions are resulting in more severe crashes or higher crash rates in general.





Forest Ave: From Madison St to Vine St: 1 Crashes 1 A-injury

1 Turning left: 1 A-injury

This segment of Forest Ave is primarily residential with single-family housing on the west side of the road and multi-family units along the east side of the road. There is a business in the southwest portion of the segment and the public works building is in the northeast corner of the segment across from Vine St. The road accommodates one lane of traffic per direction. Parking is allowed on the west side of the road but is not striped. Based on existing conditions in the segment TEG did not spot any apparent deficiencies. The one A-injury crash appears to have happened near the public works building.

While the A-injury is considered serious, it was an isolated instance and does not warrant any changes to the segment.

Oak Ave: From Forest Ave to Park Ave: 2 Crashes 1 B-injury, 1 C-injury

2 Fixed Object: 1 B-injury, 1 C-injury

This section of Oak Ave is a residential road designated as a bike route. The segment is lined with residential driveways, trees, and utility poles in the easement. Only four residences line this segment, but driveways/alleyways appear to give additional access to garages for residents on Forest Ave and Park Ave without frontage on Oak Ave. Directly in the center of the segment there is a rail bridge crossing over the road with 12'-2" of clearance.

Both fixed object crashes occurred at night. It is impossible to determine what was hit due to so many trees and other objects lining the segment. The railroad bridge supports are too close to the traveled way, but it is unlikely that reconstruction of the supports would be economically feasible with the infrequency of crashes along the segment. Shielding the bridge supports with guardrail would result in a fixed object (guardrail end terminal) even closer to the road and extending beyond the bridge supports existing footprint. Additionally, installing a guardrail will need to extend into the traveled way to properly protect the bridge supports located directly behind the back of curb. Based on the two existing fixed object crashes TEG cannot verify what object was struck as mentioned above. Without this verification or more than two fixed object crashes in a 6 year period, TEG recommends no action is taken at this time.

Edgewood PI: From Lake St to Thatcher Ave: 1 Crash 1 B-injury

1 Fixed Object: 1 B-injury

Clinton Pl: From Quick St to Oak Ave: 1 Crash 1 B-injury

1 Fixed Object: 1 B-injury

Ashland Ave: From Lake St to Oak Ave: 1 Crash 1 B-injury

1 Other Object: 1 B-injury

The final three 10% locations all had a single B-injury crash giving them a score of five. These locations will be discussed together due to similar crash and roadway characteristics between all three. It is impossible to establish a crash pattern with a single crash so no recommendations will be made. The fact that these three locations were within the top 10% of all local roads suggests that overall, the Village's local segments are not experiencing high crash rates.





The segments were located along two-way roads with no pavement markings and parking allowed on both sides. Land usage is primarily residential along Ashland Ave and Clinton Ave. Along Edgewood PI the east side of the road is residential, and the west side is a forest preserve. There were trees and other various fixed objects along all three roads that could pose a hazard as a fixed object.

INTERSECTION CRASH ANALYSIS

The Village's intersections had far more crashes to analyze than the segments. This was expected primarily due to intersections having a lot more conflict points between drivers who are either stopping, turning, or continuing straight at every intersection. Since intersections behave very differently depending on what traffic control is used, TEG broke intersections into four peer groups that were scored using the same severity weighted scoring but ranked separately just like the segment locations. The four peer groups were: All Way Stop (AWS), Minor Stop – 3 leg, Minor Stop – 4 leg, and Signalized. The reason minor leg stop had three leg intersections separated from four leg was because the four leg intersections had an additional stopped leg where drivers are attempting to turn onto the uncontrolled route. This meant a four-leg intersection would have more potential conflict points than the three-leg version. Other intersection types had uniformity of traffic control type on all legs, so the addition or lack of an intersection leg was not considered as important in the scoring. The table below shows the top 10% locations separated by peer group. While all-way stop and signalized intersections generally had higher scores there is more variability between peer groups than what was observed with the segment locations.

On residential roads it is common for local drivers to feel comfortable and not drive as defensively or as alert as they would normally be. As a result, unexpected events may surprise drivers – an intersection that normally has no waiting cross-traffic having a driver entering from the minor road or a road that cyclists don't normally use suddenly having a cyclist taking the lane. These common occurrences may result in crashes simply due to drivers on the main road not expecting conditions different from what they see on most days.

Street 1	Street 2	# Crashes	PG	Score	PG Rank
Thatcher Ave	Washington Blvd	28	AWS	56	1
Ashland Ave	Lake St	26	Minor Stop - 4 Leg	54	1
Thatcher Ave	Chicago Ave	24	Signalized	50	1
Chicago Ave	William St	11	AWS	46	2
Lathrop Ave	Div <mark>isi</mark> on St	19	AWS	40	3
Washington Blvd	Ashland Ave	21	Minor Stop - 4 Leg	38	2
Thatcher Ave	Greenfield St	8	Minor Stop - 3 Leg	34	1
Thatcher Ave	Division St	18	Minor Stop - 3 Leg	32	2
Hawthorne Ave	Keystone Ave	7	Minor Stop - 3 Leg	31	3
Washington Blvd	Gale Ave	14	Minor Stop - 4 Leg	29	3
Madison St	Lathrop Ave	20	Minor Stop - 3 Leg	29	4
Lake St	Keystone Ave	13	Minor Stop - 4 Leg	27	4
Chicago Ave	Jackson Ave	13	Minor Stop - 4 Leg	27	4

Table 2. Top 10% intersection crash locations.





Individual intersection analyses are listed below:

Thatcher Ave @ Washington Blvd: 28 Crashes 1 A-injury, 4 B-injuries, 3 C-injuries

17 Angle: 1 A-injury, 2 B-injuries, 1 C-injury

4 Sideswipe Same Direction

3 Rear End: 1 B-injury, 1 C-injury

2 Pedalcyclist: 1 B-injury, 1 C-injury

1 Fixed Object

1 Head On

The intersection between Washington Blvd and Thatcher Ave was analyzed as part of the Washington Blvd Corridor Study. For an in-depth analysis of all intersections and segments along Washington Blvd please refer to 'Crash Analysis' portion of the Washington Blvd Corridor Study section of this report.

Ashland Ave @ Lake St: 26 Crashes 1 A-injury, 4 B-injuries, 3 C-injuries

15 Angle: 1 A-injury, 3 B-injuries, 1 C-injury

6 Rear End: 2 C-injuries

3 Other Object: 1 B-injury

2 Sideswipe Same Direction

The intersection between Ashland Ave and Lake St is a minor stop intersection where north-south (Ashland Ave) traffic is stop controlled. The existing roadway has crosswalks on all four legs and centerline striping on Lake St. The east leg has an in-street pedestrian crossing sign telling drivers to stop for pedestrians in the crosswalk. Lake St has curb extensions on the east and west legs of the intersection. South of Lake St, the land usage is primarily mixed use with rental units on the upper floors. North of Lake St it is primarily residential usage with Saint Luke School on the northeast corner. Street parking is permitted on all legs but is restricted in front of the school and business entrances.

The north leg of the intersection is restricted to one-way traffic northbound on school days from 7:00AM-4:30PM. Since the leg is one-way to the north it does not impact any turning movements at the intersection other than eliminating southbound traffic from the north leg during those time periods.

The intersection has elevated angle crash rates (15) with four injury crashes in the six-year study period. This number of angle crashes along a low-speed residential road generally indicates an underlying issue at the intersection. Since there were no apparent geometric deficiencies, TEG started by analyzing whether the temporary one-way was impacting crashes in the area.

Based on field visits TEG was skeptical that drivers followed the one-way designation during the day. This was supported by feedback received in the Village-wide survey. To determine if this was the case TEG looked at all crashes involving southbound vehicles on the north leg and compared the time and date of the crashes to see if they occurred on a school day during the one-way restriction. It was found that in six out of eight instances with a southbound driver it was during the temporary one-way times. TEG felt that enforcing 'school days' (Monday through Friday from early-August to mid-June) was too ambiguous for





drivers without children in school and does not specify if summer programs count as school days. One of the six crashes occurred during temporary one-way times in mid-summer. TEG was uncertain if two-way traffic was allowed during these time periods but felt that the signs were too ambiguous for drivers not familiar with the Village. Even if residents are informed about the exact dates one-way enforcement is applicable it is still potentially confusing to an outsider trying to use Village roads.

Drivers using the north leg to go south during one-way operation times could be disorienting for traffic on Lake St who are not expecting a southbound car to pull out from the intersection. This is supported by the fact that five of the eight southbound crashes were angle crashes including one A-injury and two B-injuries. It seems that while some drivers are following the temporary one-way rules, there are other drivers who either disregard or are unaware that the road is meant to operate as a one-way during school hours. To improve conditions at this intersection TEG would recommend some physical barrier at the entrance to the segment (the intersection of Ashland Ave and Oak Ave) to make it obvious to southbound drivers that continuing straight during these time periods is not allowed. The sign or cones would not need to block northbound drivers from continuing forward but should adequately block the lane southbound drivers would normally use. This barrier should only be in place during school hours (7:00AM-4:30PM), so it is apparent when one-way traffic is in effect. In addition to these changes TEG would recommend changing the temporary one-way dates to be effective on weekdays year-round instead of only on school days. This prevents confusion from outsiders or residents without schoolchildren who are not aware of academic calendars or if one-way restrictions are implemented in the summer months for summer programs. TEG would also recommend enlarging sign panels that display the one-way hours per feedback received as part of the Village-wide survey.

While unexpected southbound drivers may explain some of the angle crashes at the intersection there were nine angle crashes remaining that were all involving drivers headed north from the south leg. Seeing that seven of the nine angle crashes were between drivers heading north being hit by a westbound driver it became clear that westbound traffic was behaving differently from eastbound traffic. Based on traffic volumes collected at the intersection to the east (Lathrop Ave at Lake St) it appears traffic volumes are evenly split both east and west with slightly more drivers headed eastbound during both peak hour time periods. It is possible westbound drivers are speeding more often coming from the more commercial area east of Lathrop Ave, but this is speculation. TEG field engineers noticed that during peak hours eastbound traffic waiting at the signal on Lathrop Ave would periodically back up to the intersection with Ashland Ave and in these cases northbound drivers would weave through standing traffic to go straight or complete their left turn. This greatly limits the visibility of oncoming traffic for the northbound vehicles which may result in angle crashes. It is unclear if these conditions persist throughout the day, but in review it was noted seven of the 15 total angle crashes were during rush hour times. Without more data or an apparent cause for the elevated number of angle crashes (especially between northbound and westbound drivers) TEG does not feel comfortable recommending countermeasures at this time. However, we believe speed data and volume data would give a fuller picture of how the intersection operates and help to enact more effective countermeasures.

Since this intersection is one of the highest scoring crash locations in the Village, TEG recommends further study is conducted to determine the appropriate countermeasures that can be recommended. Knowing driver speeds, as well as vehicle volumes at the intersection – including how many drivers illegally drive south on the north leg during school hours – is vital information since the existing intersection has no





apparent geometric deficiencies. Depending on the findings, either northbound or westbound traffic may need to be modified. For example, high northbound volumes trying to cross lake street during peak hour times for school pickup/drop-off may justify an all-way stop or reconsideration of how school pickup and drop-off operates. In contrast if drivers are excessively speeding westbound from the intersection with Lathrop Ave, then countermeasures may need to be focused towards traffic on Lake St.

The sideswipe same direction, rear end, and fixed object crashes are at low enough rates that TEG does not believe there are any recurring problems. These crashes occurred along Lake St and with only one to two non-angle crashes per year did not present as a pattern.

Thatcher Ave @ Chicago Ave: 24 Crashes 6 B-injuries, 2 C-injuries

10 Rear End: 2 B-injuries, 2 C-injuries

6 Angle: 2 B-injuries

4 Turning Left: 2 B-injuries

2 Fixed Object

1 Pedalcyclist

1 Animal

The intersection between Thatcher Ave and Chicago Ave is a signalized intersection with protected/permissive left turns on Thatcher and unprotected left turns on Chicago Ave. All four legs are striped with one lane per direction and a dedicated left turn lane. Sidewalks and ADA pads are provided on all corners except the northwest corner. The south and east legs have striped crosswalks and corresponding pedestrian signal heads and push buttons. The west leg of the intersection has two westbound receiving lanes even though there is only one westbound through lane east of the intersection. North of the intersection Thatcher Ave has two southbound lanes where the inner lane turns into a dedicated left turn lane at the intersection with minimal warning.

Truck traffic is not permitted to continue east along Chicago Ave and bicycle pavement markings (sharrow) are striped on the east leg in both directions. On-street parking is allowed on the east leg of the intersection only. Land-use is primarily residential and forest preserve. There is a trailside museum southwest of the intersection with a driveway opening onto Thatcher Ave.

Seeing the intersection had six angle crashes with two B-injuries suggested that drivers were running red lights. Since one direction of traffic should always be stopped; to cause an angle crash one of the drivers would have to continue forward while they had a red light. To determine if any one direction was more likely to run the light, TEG looked at the directions of drivers involved in angle crashes and found that five of the six crashes involved a southbound driver. It was noted that southbound traffic is almost 400 vehicles higher when looking at the combined southbound peak hour through movement compared to the combined northbound peak hour through movement. While this may not directly contribute to running red lights, the combination of having more southbound drivers trying to switch into or out of the inner southbound lane/left turn lane at the intersection may create small delays that incentivize drivers to cross the intersection during expiring yellow lights or the start of the red signal phase.





North of this intersection TEG conducted a speed study that found the 85th percentile speed of drivers on Thatcher Ave was 41 mph. Based on this TEG would recommend installing an intersection warning sign for both Thatcher Ave approaches and considering a raised intersection at this location. It would effectively calm southbound traffic on Thatcher Ave, while also addressing drivers who may be speeding eastbound into the Village on Chicago Ave. A raised intersection at this location would be more efficient than placement at a three-legged intersection.

Rear end crashes were the most prevalent crash type at the intersection which is expected at signalized intersections. Looking at the distribution of rear end crashes through the years, there were one to three rear end crashes per year which appeared to be isolated instances occurring in all directions with no apparent directional bias. There were four left turning crashes at the intersection with an even split between north-south and east-west vehicle directions. Since there is no directional bias and there have not been any more left turning crashes since 2018, TEG does not believe there is a recurring pattern of left turn crashes at the intersection.

The remaining crashes (fixed object, animal, and pedalcyclist) were in too few numbers to establish a pattern. The pedalcyclist crash occurred at night, but without further crash details the exact road conditions cannot be determined. Since there have not been any more cyclist crashes since 2017, TEG does not believe the intersection is hazardous for cyclists to navigate.

Chicago Ave @ William St: 11 Crashes 1 A-injury, 6 B-injuries, 2 C-injuries

3 Rear End: 1 B-injury, 1 C-injury

2 Pedalcyclist: 2 B-injury

2 Fixed Object: 2 B-injuries

2 Angle: 1 B-injury

1 Turning Left: 1 A-injury

1 Pedestrian: 1 C-injury

The intersection between Chicago Ave and William St is an all way stop intersection located within a residential section of River Forest. All stop signs are double sided for increased visibility. Chicago Ave is a major collector and William St is a local road. At the intersection there are crosswalks provided on all four legs and parking is permitted along both routes. Along Chicago Ave center striping is provided with additional parking striping and bicycle pavement markings (sharrow). Nearby land use at the intersection is exclusively residential. Based on a recent traffic count, it was observed that Chicago Ave had an ADT of nearly 9,000 and William St had an ADT of roughly 1,000 vehicles. This is a major volume differential between the two roads. Currently, all-way stop control is not warranted per IDOT criteria. Traffic on the minor leg is not sufficient to install a stop sign along Chicago Ave. Installing stop signs in areas where they are not warranted may result in drivers not respecting the traffic control and may cause higher crash rates than not having a stop sign.

No individual crash type occurred with enough frequency to indicate a pattern. The most common crash type, rear end crashes, occurred once every two years which is not frequent enough to establish a pattern. The primary issue at the intersection is that nine of the 11 total crashes resulted in an injury. Having a high severity across all crash types including rear end as well as three pedestrian or cyclist crashes suggests





drivers are driving at high speeds which increases the likelihood a crash will result in severe injury. All four legs coming to a stop should result in any crashes that do occur at the intersection being at lower speeds and less likely to result in an injury, but if it is always the case that there is never or very seldom cross traffic on William St drivers may begin to come to a rolling stop and then accelerate forward unsafely to get back up to speed. All crashes involved drivers along the east-west road with no obvious directional split. Only the two angle crashes included drivers from William St (1 SB vs EB and 1 NB vs WB in each case the far lane).

It is apparent there is a crash problem at the intersection, But the reason for the crash problem is not apparent. Based on the injuries and high number of pedestrian conflicts TEG would suggest gathering speed data on the east and west approaches to the intersection. As an interim (and potentially on-going) solution, TEG suggests providing targeted enforcement in the area. Since the majority of crashes exclusively involve drivers on Chicago Ave, it would suggest that the problem is with how traffic on Chicago Ave interact with the intersection (not obeying stop signs). Once additional data is gathered TEG would recommend reevaluating the traffic control. From a traffic engineering standpoint, the Village may wish to consider removing the AWS control. However, the Village should consider potential safety and liability implications of "lessening" the traffic control. If traffic control is removed the Village should consider installing traffic calming measures per criteria found in the Traffic Calming Toolbox developed as part of this project.

Lathrop Ave @ Division St: 19 Crashes 5 B-injuries, 1 C-injury

16 Angle: 4 B-injuries, 1 C-injury

3 Rear End: 1 B-injuries

This intersection is currently an all-way stop between two major collector streets. Both roads have one lane per direction without auxiliary turn lanes. The current ADT is 6,500 vehicles for Division St and 4,800 vehicles on Lathrop Ave. The existing conditions include striped crosswalks on all four legs, striped centerlines, and double backed stop signs. The stop signs all currently have flashers installed on them to bring even more attention to the stop location. Both roads have painted bike markings (sharrow) and onstreet parking permitted on all legs with parking restrictions on the north leg in front of the school. Adjacent land usage is primarily residential, along with Trinity High School on the northeast corner of the intersection. There are no apparent visibility issues on any of the legs of the intersection.

Based on the excessive number of angle crashes and high rate of injuries, the first step TEG took was to run a signal warrant and all-way stop warrant. These warrants are defined by the Federal Highway Administration (FHWA) and at least one warrant must be met prior to installing new traffic control. Warrants being met does not necessarily require the installation of a signalized intersection, but it gives engineers the opportunity to recommend a new signal. At this intersection, Warrant Five and Seven were met. Warrant Five (School Crossing) was met based on the number of school children crossing in the area. Warrant Seven (Crash Experience) required five 'correctable' crashes in one year and minimum volumes being met for eight hours of the day. In the existing conditions, the minimum crash numbers were met based on the number of correctable crashes in 2017 and 2018, in which there were 5 correctable crashes in each year. The volume component of the warrant required a total of 8 hours where the major road had a volume over 400 vehicles and the minor road had a volume of 120 vehicles. This was met for seven of





the eight required hours. It was noted that two additional hours were within 10% of the required volumes. Based on our engineering judgement, we recommend that Warrant Seven be considered as met.

It was apparent that the intersection had a breakdown in operation seeing that 16 of the 19 total crashes were a single crash type – specifically one that should not be occurring at an AWS intersection. For an angle crash to occur at an all way stop one or both drivers need to disregard the stop sign or perform a 'rolling stop' A rolling stop is dangerous because slowing down makes it appear the driver is complying with the stop sign and immediately accelerating back up to speed does not give oncoming drivers on the cross-street time to react to the lack of a complete stop. Looking at the crash details there is no apparent directional split between intersection legs.

TEG recommends installing a traffic signal at this location – it is apparent the intersection has been identified in the past for crash issues since sometime in 2019 flashers were installed on all four signs. Since that time angle crashes appear to have dropped off (two angle crashes since 2019), but this was in 2020 and 2021 when the pandemic was significantly altering driver behaviors. In 2019 (the year flashing signs were installed) there were 6 angle crashes with 2 B-injuries. Based on this, TEG believes in future years the number of angle crashes will likely return to the numbers seen in 2019 as traffic patterns return to normal.

If the all-way stop is to remain, TEG would recommend targeted police enforcement to address the issue. TEG does not have speed data along Division St or Lathrop Ave, but it is likely drivers on one or both roads are speeding in the approach segments. TEG recommends conducting a speed analysis to determine if more traffic calming is applicable. If drivers are speeding in the segments, it is unlikely a single stop sign (or series of stops) will influence their speed through the corridor. There are three other all way stop locations along the corridor and in all three cases the minor route traffic volumes are substantially below Division St volumes. Drivers may be used to not seeing any cross traffic at other stop signs not realizing that Lathrop Ave and Division St have similar volumes resulting in a much higher chance that there will already be a driver waiting as another approaches. Traffic calming should be implemented throughout the corridors and not just at the intersection.

At this intersection TEG recommends installing a new traffic signal and performing a speed study to verify whether additional traffic calming is justified.

Washington Blvd @ Ashland Ave: 21 Crashes 4 B-injuries, 1 C-injury

13 Angle: 3 B-injuries, 1 C-injury

4 Rear End: 1 B-injury

2 Other Object

1 Fixed Object

1 Turning Left

The intersection between Washington Blvd and Ashland Ave was analyzed as part of the Washington Blvd Corridor Study. For an in-depth analysis of all intersections and segments along Washington Blvd please refer to 'Crash Analysis' portion of the Washington Blvd Corridor Study section of this report.





Thatcher Ave @ Greenfield St: 8 Crashes 1 Fatal, 2 C-injuries

4 Rear End: 2 C-injuries

2 Fixed Object: 1 Fatal

1 Turning Left

1 Angle

The intersection between Thatcher Ave and Greenfield St is a three-leg intersection with minor leg stop control for east-west traffic (Greenfield St). At the intersection, Thatcher Ave has two southbound lanes and one northbound lane. On-street parking is allowed along the east side of Thatcher Ave and there is restricted parking both sides of Greenfield St (no parking 8:00AM – 5:00PM Monday through Friday). There is a striped crosswalk on the east leg crossing Greenfield St and center striping provided along Thatcher Ave. Land use west of Thatcher Ave is Forest Preserve owned land and east of Thatcher Ave is primarily residential with Dominican University southeast of the intersection. Curvature along Thatcher Ave may make it difficult for a waiting driver on Greenfield St to see oncoming traffic.

The reason this location had a high score is due to the fixed object crash resulting in a fatal injury. It is unclear what was hit due to a variety of fixed objects being present in the area. As there was only one other fixed object crash in the study period, TEG does not believe there are any unprotected fixed objects in need of shielding causing a pattern of fixed object crashes.

All other crashes seem to be isolated events and do not present as a pattern that can be addressed. Therefore, TEG does not recommend any improvements at this time.

Thatcher Ave @ Division St: 18 Crashes 1 A-injury, 1 B-injury, 1 C-injury

4 Fixed Object

4 Turning Left

3 Rear End: 1 C-injury

3 Other Object

1 Head On: 1 A-injury

1 Angle: 1 B-injury

1 Turning Right

1 Other Non-Collision

The intersection between Thatcher Ave and Division St was analyzed on its own as part of a speed study in the area. An in-depth analysis of this location along with the segment and intersection to the south can be found in the Thatcher Ave Speed Study section of this report.





Hawthorne Ave @ Keystone Ave: 7 Crashes 1 Fatal

2 Fixed Object: 1 Fatal

2 Other Object

1 Rear End

1 Sideswipe Same Direction

1 Sideswipe Opposite Direction

The intersection between Hawthorne Ave and Keystone Ave is a complex offset intersection consisting of a minor stop along Keystone Ave south of Hawthorne Ave at the east intersection and a three-leg all way stop west intersection where Keystone Ave continues to the north. On-street parking is permitted on the south leg of Keystone Ave and the north side of Hawthorne Ave. Parking along Hawthorne Ave is striped and is paid parking for the Metra line. The north leg of Keystone Ave leads under a rail bridge with a Metra station located on top of the bridge to the west. Stop signs are placed on each side of the bridge and parking is restricted in the underpass. The east intersection has a crosswalk striped across the south leg. The western intersection has two crosswalks striped crossing Hawthorne Ave on the east and west legs.

Despite the complexity of the intersection there is a relatively low number of crashes. Out of the seven crashes, only three involve two vehicles with the rest being either fixed objects or other objects (parked cars). The singular fatal crash is the driving factor bringing this location into the top 10%. Upon reviewing news sources around the time of the crash TEG discovered the concrete bridge embankment is what was struck, and the driver was coming from a local bar at 2AM. Since there were only two fixed object crashes in the area TEG does not feel this constitutes a pattern. The concrete bridge structure is not realistic to move but the Village may want to consider shielding the structure if there are further fixed object injuries at the intersection in the future.

Washington Blvd @ Gale Ave: 14 Crashes 3 B-injuries, 3 C-injuries

11 Angle: 2 B-injuries, 2 C-injuries

1 Rear End: 1 B-injury

1 Pedalcyclist: 1 C-injury

1 Animal

The intersection between Washington Blvd and Gale Ave was analyzed as part of the Washington Blvd Corridor Study. For an in-depth analysis of all intersections and segments along Washington Blvd please refer to 'Crash Analysis' portion of the Washington Blvd Corridor Study section of this report.





Madison St @ Lathrop Ave: 20 Crashes 2 B-injuries, 1 C-injuries

7 Rear End

5 Sideswipe Same Direction

3 Other Object

2 Angle: 1 B-injury, 1 C-injury

2 Fixed Object: 1 B-injury

1 Turning Left

The intersection between Madison St and Lathrop Ave is a unique three-leg minor stop intersection where the north leg of Lathrop Ave is the stopped leg. One complicating factor is the presence of a signal-controlled intersection at Madison St and Des Plaines Ave, located approximately 100 feet to the east. This close distance can lead to visibility challenges for drivers on the minor leg. Additionally, it can make it difficult for drivers to find a safe gap in traffic. Cars turning westbound from Des Plaines Ave reach the Lathrop Ave intersection almost immediately, giving drivers at the stop sign limited time to accurately judge the gap and react to approaching vehicles.

On-street parking is allowed on the south side of Madison St. Near the intersection along Lathrop Ave parking is restricted, due to the nearby business entrances. The land use at the intersection is entirely commercial with residences further north. A crosswalk is provided on the north leg and bike facilities are striped on Lathrop Ave (sharrow). Along Madison St, centerline striping is provided. A dedicated left turn lane is striped along Madison St from Thatcher Ave to Des Plaines Ave.

Two intersections in such close proximity may have resulted in crashes at the intersection between Madison St and Des Plaines Ave being attributed to the studied intersection. This would help to explain the seven rear end crashes and five sideswipe same direction crashes (crashes commonplace at signalized intersections). Nine of the 12 total same-direction crashes involved drivers on Madison St heading eastbound and were likely associated with the signalized intersection. In five of those crashes the listed traffic control was the signalized intersection at Des Plaines Ave. Due to the way crashes are reported the remaining four crashes may be associated with intersection traffic but may not be listed as occurring at the traffic signal.

The three other object crashes at the intersection are unclear as to what was being hit. Seeing that there were no injuries associated with the crashes and since they occurred on average less than once per year TEG did not feel they presented a recurring problem at the intersection. In most cases an 'other object' is listed when a driver hits a parked car. Due to the close proximity of two parking lots on the east and west corner of Lathrop Ave to the studied intersection TEG theorizes crashes occurring within the lots were picked up within the crash data and attributed to the intersection. The crash data locations that we are able to review are based on how they are plotted in IDOT's GIS system, and there is a margin of error in how accurately the crashes plot. This would help explain the elevated other object collisions in the area compared to other similar intersections. The two angle crashes both resulted in injuries but seeing that there were only two over the course of the six years studied suggested the crashes were isolated occurrences. Due to a number of small, fixed objects near the traveled way TEG is uncertain what was struck in the fixed object crashes. The cramped nature of the corridor limits the ability to move fixed





objects away from the road, and since there were only two fixed object crashes over the six years studied, TEG does not recommend any countermeasures to address this crash type. The remaining left turning crash was an isolated incident and did not justify any countermeasures.

Lake St @ Keystone Ave: 13 Crashes 3 B-injuries, 2 C-injuries

6 Rear End: 1 B-injury, 2 C-injuries

4 Angle: 1 B-injury

1 Turning Left: 1 B-injury

1 Turning Right

1 Other Object

The intersection between Keystone Ave and Lake St is a minor stop-controlled intersection where Keystone Ave is the stopped route. The intersection has striped crosswalks on all four legs and centerline striping along Lake St. Lake St has curb extensions and pedestrian crossing signs equipped with rapid flashing rectangular beacons at the intersection. On-street parking is allowed on all legs but is restricted to three-hour parking on weekdays 6AM-2PM. Keystone Park is located on both the east and west side of the south leg of the intersection. North of the intersection, land use is primarily residential with the Mosaic Montessori Academy on the northwest corner of the intersection. Based on the land use around this intersection, it is expected that there is a large number of pedestrians using the intersection to get to or from the park.

The primary type of crash and injuries at the intersection are rear end crashes. TEG assumed most of these crashes would be on the stopped leg (north-south) but after looking at the directional breakdown it was seen that rear end crashes exclusively happened on Lake St (east-west). This was unexpected because generally rear end crashes are prevalent in areas where cars either stop or slow down. Based on the existing conditions it is likely that drivers get in rear end accidents while stopping for pedestrians in the crosswalks or when preparing to turn left/right from Lake St when the driver behind them is not expecting to stop. Since this crash happened infrequently, on average once per year, countermeasures are not appropriate at this time.

The four angle crashes do not appear to have any obvious directional split. Looking at the years and dates TEG noted that three angle crashes were in 2018 with one in 2019. The three 2018 angle crashes occurred within a three-month period. This may be a result of on-street conditions in that time period (possibly a result of construction that may not show up in historic imagery). It is uncertain if this is the case, but the lack of more recent angle crashes suggests that there is not currently an issue with angle crashes at the intersection. The remaining three crashes are all different types and do not show any recurring pattern in the area.





Chicago Ave @ Jackson Ave: 13 Crashes 3 B-injuries, 2 C-injuries

8 Angle: 2 B-injuries, 2 C-injuries

1 Pedestrian: 1 B-injury

1 Rear End

1 Other Object

1 Fixed Object

1 Turning Left

The intersection between Chicago Ave and Jackson Ave is a minor stop intersection where Jackson Ave is the stopped route. The intersection has continental striped crosswalks on all four legs and along Chicago Ave centerline striping, shared bike markings (sharrow), and striped parking lanes are provided. There is a pavement legend for westbound traffic west of the intersection that says "SCHOOL XING". Parking is permitted on all four legs, but the south leg has permit parking on the west side of the road that is in effect school days 7:30AM-4:00PM and parking on the east side is restricted to three-hour parking during school days near Roosevelt Middle School. Parking lanes on Chicago Ave have landscaped curb extensions provided on both legs. Adjacent land usage is primarily residential with Centennial Park on the southwest corner of the intersection. South of Centennial Park is Roosevelt Middle School. Both facilities serve as a major draw for pedestrians to the area.

The south leg of the intersection is a temporary one-way southbound street during school days from 7:30AM-4:00PM. This should not impact turn movements at the intersection other than removing northbound traffic from the intersection for most of the day. All other legs can continue to operate as they normally would. Knowing that the similar temporary one-way at Ashland Ave and Lake St had issues with drivers improperly using the temporary one-way resulting in large numbers of angle crashes TEG checked the time, day and directions of drivers involved in angle crashes. Upon review there was no directional bias between drivers heading north or south and getting into an angle crash (three drivers headed north, five drivers headed south). If anything, southbound drivers were more at risk of an angle crash than northbound drivers. Of the three northbound crashes two were during temporary one-way times. This suggests that while some drivers are not obeying the one-way times, they are not the primary cause of elevated angle crash rates at the intersection. Despite northbound drivers not being the primary cause of elevated angle crashes at this location the Village should consider the same improvements recommended along other temporary one-way locations to prevent further northbound drivers getting into crashes during the one-way restriction in the future.

Since angle crashes had no clear directional bias TEG began to consider operational characteristics that would impact drivers in all directions. It seems drivers on the minor legs may have compromised sightlines due to large trees in the parkway and on-street parking potentially blocking the view of oncoming traffic. While sight distance may have an effect, TEG feels it is likely that driver speed or high traffic volumes combined with limited sight distance along Chicago Ave result in driver difficulty finding large enough gaps to turn or cross the intersection. The elevated injury rate suggests that drivers are traveling at a high rate of speed at the intersection. TEG would suggest verifying speed issues before using the traffic calming toolbox to guide countermeasure selection. If drivers are speeding along Chicago Ave the intersection





becomes less safe for all drivers. Addressing potential speeding will help reduce the number and severity of injuries for all crash types. A gap study can also be conducted at the same time to establish whether speed or lack of gaps to turn into is the primary issue. If lack of gaps along Chicago Ave is the issue, TEG recommends restricting turn movements allowed from the minor legs.

The remaining crashes do not present as a recurring pattern and two of the five remaining crashes are between drivers and fixed objects/parked cars. The single pedestrian crash which resulted in an injury was between a driver heading westbound and a pedestrian. The lack of further pedestrian crashes suggests the area is generally safe for the pedestrians going to or from the school and park. TEG does suggest upgrading the crosswalk striping from the continental to a more appropriate high-visibility ladder style school crossing for the legs most used by students.

CONCLUSION

Below, two tables have been assembled with overall recommendations from TEG. In many cases additional study is the recommendation as is beyond the scope of this study. TEG views crash problems as a symptom of a dysfunctional intersection/segment. To make appropriate recommendations the dysfunctional aspect of the location needs to be identified through a combination of field observation and more data acquisition.

TEG hypothesized speed issues may be the primary factor resulting in crashes along streets that had high rates of injuries, or that sight distance issues might be the cause of elevated angle crash rates. While these hypotheses may be proven correct with more data it is important to verify the root cause of the issues before attempting to correct the problem. i.e. installing traffic calming will not help reduce crashes in an area where sight distance is the primary factor resulting in crashes.

Basing project locations off areas with existing crashes is a reactive approach to network improvements. After the Village addresses existing locations with crash problems, TEG recommends incorporating a proactive approach. The next step is identifying similar locations across the Village to perform system-wide improvements. Due to the semi-random nature of crashes some locations did not have enough crashes to be brought to TEG's attention. This does not mean there are no existing issues — crashes are just one symptom of a dysfunctional road, and a lack of crashes may be indicative of lower driver volumes rather than a safe and functional intersection.

Please refer to the tables on the following page as a comprehensive list of all recommendations made within this crash analysis.





Primary Route	From	То	Recommendation(s)	
Madison St	Forest Ave	Park Ave	None	
Madison St	Franklin Ave	Ashland Ave	None – most crashes are on the non-	
			Village leg.	
Thatcher Ave	Augusta St	Division St	Refer to Thatcher Ave Speed Study for recommendations.	
Division St	Monroe Ave	Bonnie Brae	Speed Study	
Forest Ave	Madison St	Vine St	None	
Oak Ave	Forest Ave	Park Ave	None	
Edgewood Pl	Lake St	Thatcher Ave	None	
Clinton Pl	Quick Ave	Oak Ave	None	
Ashland Ave	Lake St	Oak Ave	None	

Table 3. Top 10% Segment Recommendations

Street 1	Street 2	Recommendation(s)		
The fall and A	Marking DIV	Refer to Washington Blvd Corridor Study for		
Thatcher Ave	Washington Blvd	recommendations.		
Ashland Ave	Lake St	Speed & Volume Study		
Thatcher Ave	Chicago Ave	Raised intersection – Recommendation is due to the results of the Thatcher Ave speed study.		
Chicago Ave	William St	Speed Study		
Lathrop Ave	Divisi <mark>on</mark> St	Speed study – To verify speed issues Signalization – Recommendation is based on the intersection meeting a signal warrant.		
Washington Blvd	Ashland Ave	Refer to Washington Blvd Corridor Study for recommendations.		
Thatcher Ave	Greenfield St	None		
Thatcher Ave	Division St	Refer to Thatcher Ave Speed Study for recommendations.		
Hawthorne Ave	Keystone Ave	None		
Washington Blvd	Gale Ave	Refer to Washington Blvd Corridor Study for recommendations.		
Madison St	Lathrop Ave	None		
Lake St	Keystone Ave	None		
Chicago Ave	Jackson Ave	Speed Study Upgrade crosswalk striping for crossings associated with the school.		

Table 4. Top 10% Intersection Recommendations





INDIVIDUAL STUDIES

As part of the Village-wide study conducted for River Forest, Thomas Engineering Group (TEG) performed more detailed studies for several smaller focus areas. These locations were determined based on problem areas identified by the Village and the results of TEG data acquisition and Village survey input. The overall study includes analysis of the top 10% of all crash locations, capacity analysis at all counted locations along with a working model of the AM and PM peak hour traffic conditions, and a breakdown of survey responses. These locations were along the Two-block uncontrolled spans, the Washington Blvd corridor, and the Thatcher Ave corridor.

Individual reports may reference the overall study or refer to the same data previously seen in other parts of the study.







TWO-BLOCK SPAN ANALYSIS

Introduction

TEG was tasked with determining if any of the uncontrolled stretches of road spanning two blocks were enabling drivers to speed along the routes due to the lack of traffic control. There were also complaints by residents that drivers were using these streets with less traffic control in an attempt to avoid heavy traffic on the main routes.

Traffic naturally begins to use smaller residential streets as backups occur on the mainline routes. As long as volumes are reasonable, and drivers are not engaging in unsafe behavior it is generally accepted that some percentage of drivers will change routes using residential roads. There is a limit to how many of these additional vehicles can be tolerated and at times changes may need to be made along the affected roads to make them less appealing to a driver looking to avoid traffic on the main route.

This report will analyze whether existing two-block spans are experiencing reduced safety, elevated volumes, or high speeds along corridors with uncontrolled two-block spans. The representative corridor used for analysis is Ashland Ave from Madison St to Washington Blvd. In the center of Madison St and Washington Blvd the minor stop intersection with Vine St results in the uncontrolled two-block span.

Selection

TEG began the selection process by identifying all uncontrolled two-block spans in the Village. An analysis of survey data was performed using address/block information that residents provided in their survey response to create a basic heatmap of where residents had the most perceived issues with driver speeding. The survey identified specific perceived issues where drivers use small residential roads to speed between Madison Ave and Washington Blvd. During the Washington Blvd Corridor Study, TEG identified several two-block spans south of Washington Blvd and decided to focus the study at these southern locations to make efficient use of the limited volume count locations available. The southern two-block span locations were at Vine St along Gale Ave, Keystone Ave, Forest Ave, Park Ave, and Ashland Ave (denoted in the table below). In all cases, the north-south movement was the uncontrolled direction. Since Washington Blvd has an ADT that is roughly half that of Madison St (5,700 vs. 12,200) it can be theorized that traffic backs up along Madison St at the signalized intersection at 1st Ave (for westbound traffic) or at Des Plaines Ave (for eastbound traffic) and, as a result, drivers turn northbound to get to Washington Blvd before continuing east/west to their destination.





Speed	Thatcher	Gale	Keystone	Forest	Park	Franklin	Ashland	Lathrop
Complaints	Avenue	Avenue	Avenue	Avenue	Avenue	Avenue	Avenue	Avenue
North Avenue	1	0	0	0	1	0	0	0
Le Moyne Parkway	0	0	0	1	5	4	6	1
Greenfield Street	2	0	2	6	9	3	0	4
Berkshire Street	0	0	0	0	2	2	2	9
Division Street	0	0	0	1	0	1	9	2
Thomas Street	4	0	4	3	1	2	0	1
Augusta Street	8	0	4	4	6	7	1	3
Iowa Street	10	0	4	4	6	1	2	4
Chicago Avenue	1	0	7	6	3	2	5	1
Oak Avenue	1	0	4	2	2	3	8	2
Quick Avenue	9	0	1	5	3	4	4	3
Holly Court	0	0	0	0	0	0	0	0
Lake Street	12	0	4	3	3	6	4	7
Central Avenue	0	0	0	0	1	2	4	4
Hawthorne Avenue	0	0	0	0	0	0	0	0
Linden Street	3	6	5	5	1	9	5	4
Washington Boulevard	5	1	2	1	7	2	4	17
Vine Street	2	3	8	4	10	11	9	1
Madison Street	4	7	7	2	8	14	5	3

Table 1. Heat map showing speed complaints based on nearest intersection. Numbers represent the number of survey responses to question 3 of the survey: "Do you feel speed is an issue on the street you live on?"

Based on the number of speed complaints, the selection was narrowed down to three locations — Vine St at Keystone Ave, Vine St at Park Ave, and Vine St at Ashland Ave. Once we incorporated crash data and realized Keystone Ave had two crashes in the corridor, Park Ave had only one crash, and Ashland Ave had four crashes within the corridor. It became apparent that the uncontrolled section of Ashland Ave would be the best candidate for study. Out of all the segments initially considered, Ashland Ave had the highest crash rate.





Based on survey and crash data we determined that the study should be conducted along Ashland Ave between Madison Ave and Washington Blvd. As such, data collection (speed and volume) was planned at the uncontrolled intersection of Vine St at Ashland Ave.

Analysis

As long as, speed, safety, and level of service (LOS) were retained in the existing conditions, TEG did not feel any countermeasures were necessary. Some amount of cut-through traffic is expected under normal operating conditions and is not possible to quantify without following drivers through the Village to determine their destinations. Keeping this in mind TEG did not see volumes that would cause deficiencies along the corridor, and we assume cut-through drivers are not causing capacity-related issues.

Volume

TEG collected speed and volume information over a 24-hour period on all four legs of the intersection of Ashland Ave and Vine St. Volume information was compiled and used to run a multi-way stop warrant to determine if new traffic control was required based on volumes alone. The warrant was not met (See Appendix E.03: All-Way Stop Warrant), which means that a 4-way stop is not recommended. Average Daily Traffic (ADT) on Ashland Ave is 1,200 vehicles with an even directional split. Slightly more drivers were heading north than south (52%), but after breaking the volumes down by hour it was noted southbound traffic volumes were higher in 12 out of the 24 hours analyzed. The primary difference was that northbound traffic volumes were slightly higher around rush hour times. If cut through was an issue, it would likely be in the northbound direction resulting in a greater directional split in drivers diverting northbound from Madison St to Washington Blvd, the data collected does not support this hypothesis.

It was viewed as possible that drivers are cutting-through in the southbound direction as well, making the volumes more even in both directions, however, this was seen as unlikely and dismissed after repeated field visits around rush hour revealed that Madison St was heavily congested in both directions while delays along Washington Blvd were far more minimal.

TEG noted that the hourly volumes were well within the range of what a residential road is capable of handling without negative impacts to level of service (LOS).

Crash History

The next step was to analyze crash data in the area to determine if drivers were behaving recklessly or in any way that could compromise resident safety over the course of the 6 years of data reviewed (2016-2021). TEG found that there was one crash in the segment from Madison St to Vine St, four crashes at the intersection of Ashland Ave and Vine St, and no crashes between Vine St and Washington Blvd. The termini intersections had their crashes analyzed as well (21 at Ashland Ave/Washington Blvd and 8 at Ashland Ave/Madison St) but analysis was limited to focus primarily on crashes involving Ashland Ave.

Ashland Ave: From Madison St to Vine St: 1 Crash

1 Sideswipe, Same Direction Crash

This single crash along Ashland Ave does not indicate any unsafe conditions. The incident occurred in 2018 and did not result in any injuries. A sideswipe, same direction crash indicates that a driver was either passing a moving vehicle or going around a stopped vehicle prior to the collision. Currently, there is no reason to believe that this segment of the corridor is unsafe for residents or drivers.





There were four total crashes in the Ashland Ave corridor with one C-injury over the six years studied.

Ashland Ave @ Vine St: 4 Crashes 1 C-injury

3 Angle: 1 C-injury

1 Other Object

The primary crash type being angle is indicative that drivers on Ashland Ave may be approaching at a higher rate of speed than the waiting drivers are expecting. With only three total angle crashes over the 6 years studied, TEG believes that there is not a crash problem caused by chronic speeding. The crash frequency is low enough that modifications are not warranted as the majority of drivers will not experience this issue.

Ashland Ave @ Washington Blvd: 21 Crashes: 4 B-injuries, 1 C-injury

13 Angle: 3 B-injuries, 1 C-injury

4 Rear End: 1 B-injury

2 Other Object

1 Fixed Object

1 Turning Left

Out of 21 total crashes 10 of them involved cars on the south leg of the intersection. Of those 10 crashes nine of them are angle crashes with three B-injuries. The tenth crash on the south leg of the intersection was a rear end due to a driver backing up. Based on the high rate of angle crashes and injuries associated with them there appears to be an issue with drivers turning onto or crossing Washington Blvd from Ashland Ave. Additionally, the existing crashes seem to be more related to the intersection conditions than drivers speeding. As a result, this intersection is being addressed as part of the Washington Blvd Corridor Study and a more detailed review can be found in that section of this report.

Ashland Ave @ Madison St: 8 Crashes: 1 C-injury

2 Other Object

2 Rear End

1 Angle: 1 C-injury

1 Sideswipe Opposite Direction

1 Sideswipe Same Direction

1 Turning Right

Of the eight crashes only three involved drivers on Ashland Ave:

- A right turning crash where a driver was struck while turning right onto Madison St
- An angle crash which involved a driver who was struck turning left onto eastbound Madison St
- An other object crash that appears to have been a parked car based on review





These three crashes are isolated events and do not indicate recurring issues involving the intersection with Ashland Ave.

Speed

TEG gathered speed data in the northbound and southbound directions on Ashland Ave at Vine St. Data was analyzed in using multiple methods to fully understand the area; the first method is finding an overall 85th percentile for both directions, the second method is taking the 85th percentile speed for each hour and comparing those values to the speed limit, and the third method is looking at individual speeds to see if outliers are impacting the analysis. When conducting a speed study or traffic analysis, the 85th percentile speed is often used as a measure of central tendency for the speed distribution of vehicles on a particular road segment or highway. The 85th percentile speed represents the speed at or below which 85% of drivers are traveling. TEG found that the overall 85th percentile was 22 mph for northbound drivers and 25 mph for southbound drivers along Ashland Ave. This indicates that most drivers using Ashland Ave are traveling at or below the posted speed limit. Northbound drivers, who are assumed to include the cut-through movement on this route are traveling below the speed limit in most cases.

Speeds and volumes were taken in the east-west direction as well but are not analyzed here due to those drivers slowing/stopping at the intersection before continuing.







Starting hour	NB Ashland 85th	SB Ashland 85th
Wednesday, June 7, 2023 12:00AM	19	18
Wednesday, June 7, 2023 1:00AM	19	23
Wednesday, June 7, 2023 2:00AM	18	0
Wednesday, June 7, 2023 3:00AM	24	23
Wednesday, June 7, 2023 4:00AM	0	0
Wednesday, June 7, 2023 5:00AM	19	0
Wednesday, June 7, 2023 6:00AM	19	26
Wednesday, June 7, 2023 7:00AM	25	24
Wednesday, June 7, 2023 8:00AM	19	23
Wednesday, June 7, 2023 9:00AM	21	24
Wednesday, June 7, 2023 10:00AM	20	25
Wednesday, June 7, 2023 11:00AM	22	21
Tuesday, June 6, 2023 12:00PM	22	31
Tuesday, June 6, 2023 1:00PM	26	28
Tuesday, June 6, 2023 2:00PM	20	24
Tuesday, June 6, 2023 3:00PM	20	32
Tuesday, June 6, 2023 4:00PM	26	24
Tuesday, June 6, 2023 5:00PM	27	23
Tuesday, June 6, 2023 6:00PM	22	23
Tuesday, June 6, 2023 7:00PM	21	28
Tuesday, June 6, 2023 8:00PM	21	22
Tuesday, June 6, 2023 9:00PM	22	24
Tuesday, June 6, 2023 10:00PM	19	29
Tuesday, June 6, 2023 11:00PM	19	22

Table 2. Northbound and Southbound 85th percentile speeds from 6/6 to 6/7

Looking at an hourly breakdown of 85th percentile speeds for northbound drivers showed that speeds surpassed the posted speed limit in three of the 24 hours recorded. In each case, the 85th percentile was 1-2 mph over the posted speed limit. Vehicles headed southbound on Ashland Ave were found to be speeding more often and had a higher 85th percentile compared to the northbound vehicles during same time periods.

Six hours show 85th percentile speeds in the southbound direction greater than the speed limit and half of those hours had an 85th percentile speed at 4 mph or more over the speed limit. This was unexpected based on the hypothesis that cut-through traffic would primarily be coming from Madison St. It is possible that road conditions have caused more drivers to go south on Ashland to avoid traffic on other north-south routes. It is also possible that elevated speeds are coming primarily from residents within the Village instead of non-residents cutting-through.

Southbound traffic seems to have the highest 85th percentile values between the lunch rush hour and the evening rush hour. Traffic during rush hour may force drivers to drive more slowly on average during those time periods. Since southbound speeding seems to primarily occur during the off-peak hours, it is less likely that these drivers are cutting through on their way out of the Village, but rather locals completing trips in and around the Village. The highest 85th percentile speed was 32 mph at 3 PM; 7 mph over the posted limit.

The final part of TEG's speed review was determining how large of an impact outliers had on the 85th percentile speeds. Since most of the hourly 85th percentile speeds were only a few miles per hour over the posted speed limit, TEG decided to check the individual speeds recorded by the counters for any outliers. In





this case outliers were deemed to be any drivers going 40 mph or more (15 mph over the posted limit). For southbound traffic only 4% of all drivers, or 22 total, recorded speeds over 40 mph. Northbound traffic had 16 outliers or 2% of the total volume with recorded speeds over 40 mph. Outliers may cause the 85th percentile to jump up several mph for the hours in which they occurred, but will have minimal impact to the overall speed study. For both northbound and southbound drivers, outliers are infrequent and unlikely to have skewed the results of the overall 85th percentile in any significant manner.

Recommendations

TEG used the Traffic Calming Toolbox developed as part of this project to score the corridor on Ashland Ave between Madison Ave and Washington Blvd. Scoring was conducted as detailed in the Traffic Calming Toolbox explanation – in this case scoring utilized both segments north and south of Vine St including the intersections between Ashland Ave and Madison St and Washington Blvd. The segment had a total score of 34 points which was enough to put the location in level 1 of the improvement tiers. Please refer to Appendix E.04: Traffic Calming Toolbox Scoring Sheets. Based on the findings at the intersection, TEG believes that minimal action would be sufficient in addressing the minor speed problems present along the route.

	Primary Issue Addressed					
Available Traffic Calming Measures	Speed	Volume	Pedestrian Safety			
Level 1 - No Traffic Flow Changes (25-40 points)						
Targeted Speed Enforcement	X					
Speed Radar Trailer	Х					
Speed Feedback Sign	X					
Centerline/Edgeline Markings	X					
Updated Signage	Х		Х			
Speed Limit Signage	Y					
Flashing Stop Signs			Х			
Pavement Legend	Х		Х			
High Visibility Crosswalks			Х			
Education/Community Outreach	Х		Х			

Table 3. Level 1 improvement types

Looking at the available improvement types gives guidance for the Village. TEG generally suggests making as few changes as possible to resolve the issue while impacting other road users as little as possible. In this location with moderate speeding during select time periods and low crash rates there is no apparent need to make changes to operation or geometry. For any future improvements, TEG recommends taking a stepped approach where incremental action is taken while the area continues to be monitored. The existing conditions do not appear to be dangerous to residents so a 'wait and see approach' is advisable to prevent causing new problems by installing overly restrictive countermeasures.

Pedestrian safety is always a top priority, however since there are no pedestrian crash issues through the corridor, TEG is recommending improvements to primarily target speeding issues. Beginning with targeted





speed enforcement and a speed radar trailer or Speed Feedback Sign is the first step to see if that resolves the existing outlier speeders. Since most speeding is focused around late afternoon to early rush hour, the Police Department can choose the best times for selective enforcement. If the speed issues persist, TEG would suggest installing updated signing and pavement markings. Looking at the speed breakdown of all drivers throughout the full day, 90% of northbound drivers are at or under the speed limit and 74% of southbound drivers are at or under the speed limit. Northbound drivers are more than 5 mph over the speed limit in 4% of the recorded speeds, and in southbound traffic 9% of drivers are more than 5 mph over the speed limit. While the outlier drivers who were speeding did not significantly change the 85th percentile eliminating these few high-speed drivers using selective enforcement will help improve safety through the corridor and will address the minor amount of speeding that is existing.

Since this location was analyzed as a representative intersection it can be assumed that other nearby twoblock span locations will have similar conditions. Once again due to the relatively small number of drivers speeding, it seems that those outliers need to be curtailed to bring speeds along the road back in line.

TEG suggests beginning with targeted enforcement at nearby two-block span locations of either Keystone Ave or Gale Ave, to determine if those roads experience the same or different traffic patterns.

If these nearby two-block spans are found to have similar speed/traffic patterns, we recommend the Police Department and Village staff assess the state of the other roads with two-block spans and whether they follow a similar pattern to Ashland Ave.

The traffic calming toolbox should be used for any future changes along these routes to ensure the Village does not create an overly-restrictive road system that causes drivers not to respect roadway signs due to the overabundance. It is unlikely that an all-way stop warrant will be met on any of the other two-block span locations, but if it is seen that they have significantly higher volumes than Ashland Ave and Vine Ave, TEG would recommend running a stop sign warrant prior to any changes.

From a resident perspective, it is possible that the few drivers excessively speeding give the impression that all drivers are moderately speeding or that the road is unsafe because of the unpredictability. By addressing the drivers speeding along the corridor through enforcement, the overall feel of the road should hopefully return to what residents expect.





WASHINGTON BLVD CORRIDOR STUDY

Introduction

The Village has had many complaints of speeding along the corridor of Washington Blvd and considering a past study's findings that parking was severely underutilized throughout Washington Blvd the Village Traffic and Safety Commission wanted to consider either a road diet or installing other traffic calming measures to mitigate speeding.

Initially TEG assessed existing conditions throughout the corridor. TEG began by collecting traffic volumes on the road at Thatcher Ave, Franklin Ave, and Lathrop Ave to understand how the road operates at peak hour times. TEG then gathered all crash data along the intersections and segments and analyzed it to determine patterns throughout the corridor and to locate segments/intersections that pose a hazard to driver safety. Lastly resident survey data was incorporated into the decision-making process with more emphasis being placed on responses from those living along and/or near the road. These three components were combined to develop overall recommendations for the corridor along with specific recommendations for intersections as TEG deemed necessary.

Existing Conditions Assessment

Washington Blvd is a 2-lane bidirectional Major Collector in the Village of River Forest. The ADT as of 2022 is 5,700 vehicles and the speed limit is 25mph. Speed limit signs are posted for both directions periodically through the corridor including a driver feedback sign for eastbound drivers. There is striped on-street parking provided on both sides of the road throughout the corridor. Washington Blvd is designated as a bike path within the Village. Bike facilities along Washington Blvd include on-street pavement markings for shared lane usage but no dedicated bike lane. In total there are two signalized intersections, two all-way stop intersections, and four minor leg stop intersections where Washington Blvd is the non-stopping route.

The typical cross section of Washington Blvd is two 12' lanes with 8' of parking on either side. The total width of the road is 40'. The road narrows to 36' at a railroad overpass located between Park and Forest Ave with 12'-7" of overhead clearance. The speed along all crossroads is 25 mph.

Notable off-road features include lighting throughout the corridor and sidewalks along both sides of the road with periodic crosswalks at intersections. There are two parks (Washington Square Park and Washington Commons Park) near Forest Ave north and south of Washington Blvd. East of Park Ave there is a third park south of Washington Blvd (Washington Triangle Park). The corridor is primarily residential with no businesses in the area. The road is designated as a bike route per the Village's bike plan and painted bike symbols have been placed throughout the corridor to make drivers aware cyclists may be using the road.

Currently, the Washington Blvd bridge is about to be reconstructed with a two-lane cross section and dedicated bike lanes on either side. — Regardless of the bridge cross section Washington Blvd should have a standardized cross section that ties into the proposed bridge cross section cleanly and does not result in drivers/cyclists/pedestrians crossing into or out of the Village to find their lane/path abruptly ends with no recourse. Any lane addition or subtraction should be done using standard taper lengths and should be signed in advance. As noted above the existing condition at the bridge is a four-lane cross section with no transition to the two-lane cross section used along Washington Blvd in the Village. TEG summarized any notable features we discovered through analyzing each intersection in the corridor:





Washington Blvd @ Thatcher Ave

- All way stop intersection
- The west leg of the intersection is a 4-lane cross section with no transition to the 2-lane cross section on the east leg.
- Ladder style crosswalk on east leg

This is the second highest volume intersection along Washington Blvd and is the highest unsignalized volume. Recent traffic counts at the intersection show lower ADT volumes than what is listed on IDOT's IRoads System. Thatcher Ave was shown to have an ADT over 4,500 from TEG's recent traffic counts vs. an ADT of approximately 11,000 in 2022 IDOT counts. We believe the IRoads count was conducted closer to the intersection between Thatcher Ave and North Ave where volumes are much higher. Washington Blvd ADT matched what IDOT had in their system (5,300 in TEG count and 5,700 on IRoads). The intersection was analyzed with Thatcher Ave as the minor leg.

Washington Blvd @ Gale Ave

- Minor leg stop intersection (North/South legs stop)
- Both northbound and southbound traffic have compromised sightlines of the far lane of traffic due to trees and vegetation
- Ladder style crosswalks on north and south legs

This is a standard minor stop intersection with Washington Blvd as the non-stopping route. There are no apparent geometric issues with the intersection. It appears driver sightlines on the north and south leg may be compromised seeing traffic approaching from the right (far lane). Sidewalk with ADA compliant pads are present on all four corners but there is no corresponding crosswalk leading across Washington Blvd on the east and west legs. Without any crosswalk drivers may not be expecting pedestrians crossing at this location.

Washington Blvd @ Keystone Ave

- All way stop intersection
- Stop sign warning sign on eastbound approach
- Keystone Ave may have slightly compromised visibility of oncoming traffic due to trees near the intersection
- Eastbound and westbound stop signs have spinning reflective markers
- Continental crosswalks on all four legs

Keystone Ave is a standard all way stop intersection. Any sightline issues should be mitigated by the stop warning sign or spinning reflective markers. TEG did not feel stop signs were difficult to see on any of the approaches and saw no reason for operational issues due to geometry or sightlines. All cars at the intersection should be coming to a complete stop and once at the intersection it is not difficult to see drivers on the other three legs regardless of approach direction.





Washington Blvd @ Forest Ave

- 3-leg minor stop intersection (South leg stop
- Ladder style crosswalk on south and east leg with pedestrian crossing sign in each direction for east leg
- Parks are located north and south of the intersection

Forest Ave is a standard 3-leg minor leg stop intersection where drivers on the south leg stop. Due to the proximity of the parks the pedestrian crossing with additional warning signs will help keep drivers aware of pedestrians at this location. The south leg appears to have adequate sightlines in both directions. Trees in the eastbound parkway may block some visibility of oncoming traffic, but in use TEG felt visibility was adequate to safely complete a turn at posted speeds.

Washington Blvd @ Park Ave

- Minor stop intersection (North/South legs stop)
- Park located in the southeast corner of the intersection
- Continental crosswalks on all four legs

Park Ave is a standard minor leg stop intersection where north and south traffic stops. There is a small park in the southeast corner of the intersection. Within the past few years there was a radar speed sign installed behind the crosswalk for eastbound traffic. There is an existing pedestrian crossing warning sign just east of the intersection. This sign appears to apply to the crosswalk at Franklin Ave. TEG felt the sign was unclear as to which crosswalk was being referred to — TEG recommends the Village confirm with their signing and striping plan to relocate this sign as needed.

Washington Blvd @ Franklin Ave

- 5-leg Signalized intersection (Park Dr is fifth leg; One-way southwest)
- Continental crosswalks on all 5 legs

Franklin Ave is a 5-leg signalized intersection. The fifth leg heads southwest and is one-way away from the intersection. It is unclear if the signal was warranted due to traffic volumes, elevated crashes, or as a form of traffic calming. The signal has been in place since at least 2010 based on review of historic imagery. The sidewalk is set back over 40' from the road southeast of the intersection due to the layout of the fifth leg. The south leg of the intersection does not appear to have any sight distance issues, but cars are stopped over 40' away from the east-west route. The unique geometry of this intersection may result in a higher risk for crashes involving drivers on the south leg.

Washington Blvd @ Ashland Ave

- Minor Stop intersection (North/South legs stop)
- Ladder style crosswalks on south, east, and west leg with pedestrian crossing warning signs for west leg
- Drivers on Ashland Ave must wait further away from the intersection than is standard

Ashland Ave is a minor leg stop where north and south traffic stops. Due to sidewalks north and south of Washington Blvd being offset ~25' drivers on the north and south leg need to stop over 25' from the intersection. This coupled with trees in the area reducing the visibility of oncoming traffic on Washington





Blvd. The sidewalks being offset so far back also reduces the visibility of pedestrians for drivers on Washington Blvd. The intersection is located directly between two signalized intersections and drivers may not be expecting the minor intersection with Ashland Ave.

Washington Blvd @ Lathrop Ave

- Signalized intersection
- Lathrop's ADT is 5,800 (Compared to IDOT's counted 7,700)
- Shared bike line markings on north and south legs
- Ladder style crosswalk on the west leg and standard crosswalks on the other three legs.
- East leg is not under Village jurisdiction

Lathrop Ave is a signalized intersection and is the highest volume intersection in the corridor. The east leg of the intersection is not in Village jurisdiction so all improvements will be targeted at the Village legs. There are crosswalks on all four legs, TEG noted the crosswalks were not consistent; there was one ladder style on the west leg and standard transverse striping on the other three legs. There are no apparent sight distance issues at the intersection. The parking lane striping on the west leg of the intersection may appear to be a second lane to drivers unfamiliar with the area. This is supported by the "No Driving in Parking Lane" sign. Narrowing the west leg may help mitigate these issues.

Volume & Speed Study Assessment

Volumes were gathered for the peak hour times of three intersections throughout the corridor. The intersections were chosen to get a good representation of where drivers enter and exit the road. The three intersections chosen were the two primary intersections (Thatcher Ave and Lathrop Ave) and the third counted intersection was Franklin Ave at Washington Blvd which was chosen due to the signalization and five leg geometry. Please refer to Appendix C.01: Volumes & Level of Service for volume data – AM and Appendix C.02: Volumes & Level of Service for volume data – PM.

Based on an analysis of the Volumes during both AM and PM peak hour TEG came to several conclusions:

- Traffic volumes are highest at the corridor termini at Thatcher Ave and Lathrop Ave
- There is an imbalance between EB and WB traffic volumes with eastbound traffic being greater in both the AM and PM peak hours.
- For drivers traveling east or west there are a limited number of bridge crossings over the Des Plaines River making Washington Blvd appealing to drivers looking to avoid busier streets like North Ave or Madison Ave.
 - backups on Madison Ave (as TEG field engineers observed during both peak hours) is likely causing traffic to spill over to Washington Blvd since it is the next closest road with a river crossing.

Speed data was taken at the midway point of the corridor near the railroad overpass. This location was deliberately analyzed away from stopping intersections to ensure that the speed of drivers in the corridor was not impacted by traffic stopping/slowing to turn onto intersections. In traffic engineering the 85th percentile is expected to be the speed limit of a road. Seeing 85th percentile speeds significantly above the





speed limit could indicate that road conditions do not reflect the posted speed limit. The average 85th percentile speed along Washington Blvd across all time periods was 38 mph. This was 13 mph above the posted speed limit. Based on these speeds TEG would recommend making changes to either geometry or operating conditions to force drivers to travel at safer speeds. At the AM and PM peak hour times the 85th percentile speed was 15 mph above the posted limit. This indicates that even during the peak periods traffic conditions do not slow drivers down. The high speeds coupled with higher volumes at the peak hour make the road much more dangerous for pedestrians, bicyclists and cross-street vehicular traffic. See Appendix F.01: Speed Data for a full breakdown of driver speeds.

85th percentile speeds 15 mph over the posted limit indicate a severe disparity between driver perception of the road and Village perception. We recommend taking steps to mitigate speeding along this route by installing some form of traffic calming.

Crash Analysis

Crashes through the corridor were analyzed over a six-year period from 2016-2021. Due to the higher speeds along the route, there is a higher chance of severe injury in the case a crash does happen. A lack of crashes does not necessarily signify a safe corridor and due to the parks located between Forest Ave and Park Ave (where speed data was gathered) there is a high likelihood for pedestrian interaction with a vehicle at a crosswalk or a mid-block crossing.

Segment Crashes

There was a single fixed object crash on Washington Blvd in the analysis period. It was a fixed object crash on the segment between Forest Ave and Park Ave and did not have any injuries. There were no reported crashes in any of the other segments.

Intersection Crashes

There were 101 total crashes at intersections along Washington Blvd including 1 A-injury, 19 B-injuries, and 10 C-injuries.

Intersections included in this analysis are as follows: Thatcher Ave, Gale Ave, Keystone Ave, Forest Ave, Park Ave, Franklin Ave, Ashland Ave, and Lathrop Ave

Overall Crash Breakdown (All Intersections):

56 Angle: 1 A-injury, 10 B-injuries, 4 C-injuries

20 Rear End: 6 B-injuries, 3 C-injuries

7 Other Object: 2 B-injuries

7 Sideswipe Same Direction

4 Fixed Object: 1 C-injury

3 Pedalcyclist: 1 B-injury, 2 C-injuries

2 Turning Left

1 Head On

1 Animal





Angle crashes are by far the most prominent crash type at the intersections and have a high rate of injury. This is typically seen in cases where drivers misjudge oncoming traffic speed or make risky decisions due to a lack of a gap in traffic.

The intersections between Washington Blvd and Forest Ave, Park Ave, and Franklin Ave had very low crash rates at 2, 3, and 7 crashes, respectively. At Forest Ave and Park Ave no conclusions or patterns could be gathered based on such small numbers of crashes. TEG noted that at both locations there was an injury crash (1 B-injury and 1 C-injury). At Franklin Ave there were 7 crashes including one C-injury and 3 B-injuries. Four of the seven crashes involved either rear end or sideswipe same direction crashes and accounted for two B-injuries and one C-injury. The remaining 3 crashes are all different types and not indicative of a pattern. It is unclear why these intersections have such low crash rates compared to other intersections in the corridor. Perhaps it is due to lower volumes using all three streets, but despite the lack of crashes in this area, it remains true that drivers are exceeding the appropriate speed limits in this corridor. In the event of any crashes occurring, there is a significantly greater chance of severe injuries. This is observed that 50% out of 12 total crashes at the three intersections resulted in an injury.

The remaining five intersections will be analyzed in greater detail due to their higher crash volumes to determine if there are any patterns. Crash patterns are indicative of an underlying problem, either geometric or operational, that can be addressed through new safety measures or changing how the intersection operates.

Thatcher Ave Total: 28 Crashes 1 A-injury, 4 B-injuries, 3 C-injuries

17 Angle: 1 A-injury, 2 B-injuries, 1 C-injury

3 Rear End: 1 B-injury, 1 C-injury

4 Sideswipe Same Direction

2 Pedalcyclist: 1 B-injury, 1 C-injuries

1 Fixed Object

1 Head On

Thatcher Ave at Washington Blvd had by far the most crashes at 28 as well as the most frequent and severe injuries. Due to high volumes and all-way stop control the intersection may have issues handling the daily traffic volumes at peak hours. Delays along the intersection may result in impatient drivers not properly stopping at the intersection. Similar intersections along Thatcher Ave at Lake St and Chicago Ave are both signalized rather than all-way stop.

The non-angle crashes align with typical intersection related crashes primarily consisting of sideswipe same direction and rear end crashes (7). The number of angle crashes is atypical for an all way stop intersection. For an angle crash to occur typically one driver needs to not obey the stop sign. There may be cases where two stopped vehicles both move forward at the same time, but drivers can typically avoid these collisions and the four injuries caused by angle crashes suggests drivers were colliding at a higher rate of speed.

The primary directions of vehicles involved in collisions was between southbound and eastbound drivers (6) and northbound and westbound drivers (8). The collisions appear to primarily be occurring due to





drivers heading eastbound and westbound not stopping or not being seen by drivers headed north and southbound. Based on the existing configuration with drivers on the west leg having two lanes per direction this can be confusing to eastbound approaching drivers not realizing the right lane ends past the intersection. Similarly having two westbound lanes on the west leg encourages drivers to use the parking lane to continue straight onto Washington. Maintaining a consistent cross section up to and past the intersection or providing updated pavement marking/signage would likely help reduce driver confusion and improve safety.

There are Stop Ahead Warning signs on all approaches and there were no sight distance issues observed at the intersection. Since 2019 there has been only one angle crash (*data in 2020 and 2021 were significantly skewed by traffic reductions on all roads during the COVID-19 pandemic*), but a lack of new angle crashes suggests the problem was somewhat resolved with the lower traffic volumes. With traffic returning to pre-pandemic levels, it is possible that there will be a resurgence of angle crashes at this intersection.

A signal warrant was performed for this intersection but not met due to traffic volumes falling below the minimum threshold. This number of angle crashes is uncommon at all way stop intersections and suggests safety measures should be taken. TEG would suggest installing flashers on the Stop Ahead Warning signs to draw further attention to the all-way stop condition. This location is being recommended for a raised intersection due to the number of angle crashes and speed issues in the area.

Gale Ave Total: 14 Crashes 3 B-injuries, 3 C-injuries

11 Angle: 2 B-injuries, 2 C-injuries

1 Rear End: 1 B-injury

1 Pedal cyclist: 1 C-injury

1 Animal

Gale Ave is a minor leg stop intersection where the north and south legs stop. The high rate of angle crashes indicates there is an underlying problem at the intersection. At minor leg stop intersections a high rate of angle crashes is typically caused by drivers moving at a higher rate of speed than the waiting driver expects, drivers feeling pressure to fit in smaller gaps due to high road volumes, and/or sight distance issues for waiting drivers.

Angle crashes accounted for almost 80% of the total crashes at the intersection, which is higher than expected. TEG looked at the directional breakdown of drivers and discovered that drivers from the south and north leg were being struck at similar rates. This indicated that issues at the intersection effected both minor legs equally.

Looking at the intersection from the perspective of a driver on the minor leg, TEG observed that southbound drivers had issues seeing eastbound traffic while sitting at the stop sign and northbound had similar sight distance issues with westbound traffic. Both directions have compromised sightlines due to vegetation blocking visibility. To resolve crash issues TEG recommends removing the vegetation and trees blocking visibility. Other improvements will be implemented at nearby intersections along Washington Blvd that will also improve conditions at this intersection.





Keystone Ave Total: 14 Crashes 2 B-injuries, 1 C-injury

11 Angle: 2 B-injuries3 Rear End: 1 C-injury

Keystone Ave is an all way stop similar to Thatcher Ave, but with far lower north-south volumes (500 ADT along Keystone Ave per IDOTs 2022 data). The high rate of angle crashes at the intersection is unexpected since all drivers should be coming to a complete stop. The two B-injury angle crashes at this location suggest that drivers are colliding at high rates of speed. There is a Stop Ahead Warning sign placed in the eastbound direction with no matching sign for westbound.

The directional breakdown of angle crashes is the same as at both Thatcher Ave and Gale Ave. TEG has not identified any geometric reasons that would be causing elevated angle crashes. It is possible vehicles approaching from east-west may have difficulty seeing drivers waiting on Keystone, but the stop sign is clearly visible in all directions and is not easily overlooked by drivers. It seems likely that the high speeds in the corridor coincide with a large number of drivers 'rolling' stop signs or not obeying them at all.

Based on the low minor street volumes a signal would not be appropriate, but changes should be made to mitigate both the speed and the lack of driver awareness as they approach intersections. TEG would suggest installing a Stop Ahead Warning sign in both directions, possibly with flashers or flashing LED border. TEG also suggests installing a raised intersection to force drivers to slow down. Placement of multiple raised intersections through the corridor may help to avoid a situation where drivers speed after passing the raised intersection.

Ashland Ave Total: 21 Crashes 4 B-injuries, 1 C-injury

13 Angle: 3 B-injuries, 1 C-injury

4 Rear End: 1 B-injury

2 Other Object

1 Fixed Object

1 Turning Left

Ashland Ave is also seeing elevated rates of angle crashes with multiple injuries for a minor leg stop intersection. Northbound vs westbound is the primary direction impacted (8 of the 13 total angle crashes). The location of the intersection between two signalized intersections may surprise drivers on Washington Blvd who are not expecting drivers to be entering in front of them before they reach the signal at Franklin Ave. The combination of the two signalized intersections with a minor stop-controlled intersection in between is made even worse by the location of stop bars for drivers waiting to turn from Ashland Ave. Both stop bars are set 40' back from the edge of the traveled way due to the location of the sidewalk crossing. This forces drivers to cover more distance before executing their turn than is typical at standard minor stop locations. The large offset makes drivers on Ashland Ave less visible to drivers on Washington Blvd and vice versa.

To improve visibility at the intersection, TEG recommends realigning the sidewalk to bring it closer to the intersection. This will reduce the offset of the stop bar and allow drivers a better view of oncoming traffic. Similar to the rest of the intersections, reducing driver speeds along Washington Blvd would likely decrease





angle crashes by giving waiting drivers more time to react to oncoming traffic. This would also reduce the severity of crashes due to drivers moving at lower speeds at the time of collision.

Lathrop Ave Total: 12 Crashes 2 B-injuries

5 Rear End: 1 B-injury

2 Angle: 1 B-injury

2 Other Object

2 Sideswipe Same Direction

1 Turning Left

Lathrop Ave is a signalized intersection and is the end of the Village owned portion of Washington Blvd. Based on the crash breakdown There are no recurring crash patterns or unexpected crash types. The much lower rate of angle crashes is more in line with what a signalized intersection might experience under normal traffic conditions.

Over the six-year period there were an average of two crashes per year and two injuries in the entire analysis period. Although there is not an existing crash problem, TEG still recommends geometric and operational improvements at the intersection in line with other improvements in the corridor.

Crash Recommendations

It is clear that along with several potential geometric issues, the primary factor causing elevated rates of angle crashes throughout the corridor is the high vehicle speeds along Washington Blvd. Speeding increases the potential to have severe crashes even when both drivers are paying attention. The large number of angle crashes at both of the all-way stop intersections clearly indicates that either drivers are rolling stop signs or not stopping at all even though stop signs are extremely visible through the corridor.

Conditions along the road will need to change to reduce the average speed of drivers. TEG suggests implementing countermeasures from our Traffic Calming Toolbox throughout the corridor to address the high rates of speed. In areas lacking sight distance it may be appropriate for the Village to perform a full sight distance assessment and make modifications as needed.

Survey Response Analysis & Evaluation

As part of the Village-wide survey TEG asked specific questions to gauge residents' feelings about Washington Blvd. These questions have been analyzed along with answers to several other survey questions to create a profile of resident opinions based on their proximity and usage of the road. These responses will be considered in any future improvements. TEG recommendations will not solely be determined based on resident preferences, but all opinions will be given weight when deciding on the optimal solutions. To create a safer road, drastic change will need to be made to effectively alter driver behavior.

Introduction

TEG asked seven questions specifically targeted towards the Washington Blvd corridor. The first question was a screening question to determine how often respondents used the road or if they lived on the road. More weight was given to the responses of residents who lived on the road or used the road often. Any





respondent who said they did not use Washington Blvd in the first question was not presented the following six questions. The frequency of roadway use was also incorporated into analysis of the remaining six questions. Analysis begins at question 2 because usage of the roadway is only applicable when paired with the follow-up questions.

Question 2 Analysis

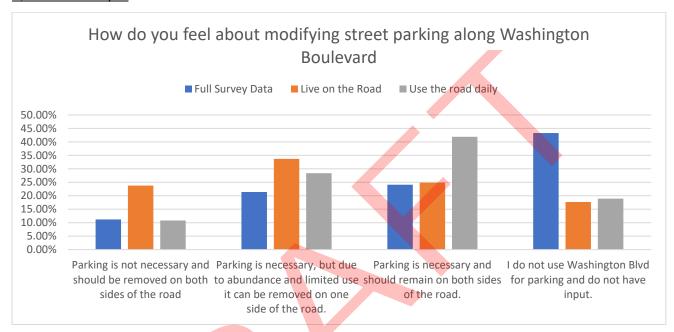


Figure 5. How do you feel about modifying street parking along Washington Boulevard to allow for traffic calming/bike accommodations to be implemented? (Percent Breakdown)

In analyzing data from the second Washington Blvd question, TEG noted that for the overall response data most respondents did not use parking on Washington Blvd and had no input (43%). Of the group who did have input on parking most of those people believe parking is required (45% combined responses that parking is necessary on one or both sides). Of the two groups who say parking is necessary, over half of them feel parking is required on both sides of the road.

The purpose of the question was to follow up from the 2019 parking study that found parking along Washington Blvd was less than 50% utilized from Thatcher Ave to Park Ave, and in some cases was used less than 15%. Unused parking lanes effectively become another lane for drivers trying to bypass traffic backups and creates more danger for cyclists who might want to ride in the open parking lane to avoid taking a full lane of traffic. The surrounding residential streets have less parking overall, but TEG believes the small number of drivers currently parking on Washington Blvd will be able to find nearby spots without issue. When the parking lane is completely empty drivers can illegally use the road as if each direction is a 20' lane which further promotes speeding and unsafe driving.

Looking at the bars representing responses from residents living on Washington Blvd or using it daily it becomes apparent that those residents most effected want to keep at least some parking on Washington Blvd. The figure shows that the percentage of drivers wanting to keep parking is much higher in both cases where drivers regularly use Washington Blvd, but residents who live on Washington Blvd are more open





to removing parking on one or both sides. Knowing this, TEG will try to maintain parking on one side in the recommended alternatives along Washington Blvd. It is likely some parking will be removed to avoid providing an overabundance of parking like in the existing conditions, and to make room for more effective traffic calming improvements.

Question 3 Analysis

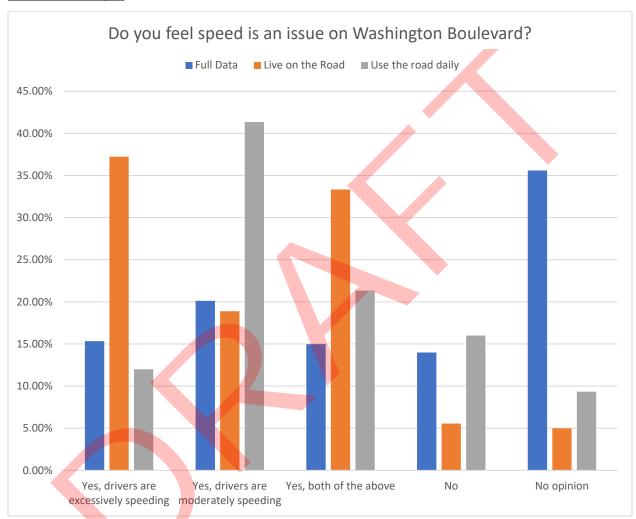


Figure 6. Do you feel speed is an issue on Washington Boulevard? (Percent Breakdown)

When answering this question 50% of respondents (or 75% of those who offered an opinion) felt speed was an issue (moderate and/or excessive) on Washington Blvd. The overwhelming majority of road users feel speeding is an issue or have no opinion on it.

Those residents with more experience with the road feel more strongly that speeding is a significant issue along Washington Blvd. In figure 6 it is apparent that residents using the road daily are more likely to believe drivers are either moderately or excessively speeding compared to the full data set. The residents who live on the road followed a similar trend with the exception that these respondents thought drivers were excessively speeding as opposed to moderately speeding. Residents who live along Washington Blvd





responded "No" or "No opinion" 10% of the time compared to the overall data set where 50% of respondents had no opinion on speeding issues.

It was seen that the 85th percentile speed during the peak hour time periods was 15 mph faster than the posted limit. The survey response data by those familiar with the roadway is supported by the speed data which shows that speeding is prevalent in the area.

Question 4 Analysis



Figure 7. Is traffic regularly not stopping or "rolling" through stop signs an issue on Washington Boulevard? (Percent Breakdown)

When asked about stopping along Washington, 30% of all respondents felt drivers were either not stopping or rolling through stop signs. This is alarming because this perceived behavior might discourage pedestrians and cyclists from using the road or the nearby parks for safety reasons.11% of respondents did not feel lack of stopping was an issue, with over 50% of respondents having no opinion. This is expected because drivers who don't often use the road have less of a chance to observe this driver behavior compared to drivers regularly using Washington Blvd.

Respondents who live on the road are the most likely to observe non-stopping behavior and make note of it, especially if they live in a household with kids. Based on ~70% of these respondents saying traffic is regularly not stopping, it is clear that there is a problem. TEG felt that the fact that daily road users notice non-stopping at a much lower rate than those who live on the road indicates that either daily road users are part of the problem or they simply have less time to observe improper behavior either due to only





briefly using Washington Blvd or using intersections along Washington Blvd where not stopping isn't as common. The high rate of angle crashes at all-way stop intersections on Washington Blvd caused TEG to believe there is a large number of drivers disregarding stop signs.

The open-ended response section allowed drivers to specify which intersections they believed cars didn't stop the most. TEG only included responses data for intersections along Washington Blvd.



Figure 8. Open ended response data in response to the prior question.

The survey results clearly show that residents believe there are issues at both Thatcher Ave and Keystone Ave. Crash data supports this and indicates that more severe traffic calming may need to be considered at these two intersections.

The moderate spike in residents saying drivers were rolling the stop signs on Ashland Ave (14) may be an effect of the setback geometry of the minor legs. Drivers approaching Washington Blvd from Ashland may go past the stop bar while stopping to get a better view of oncoming traffic. Currently drivers are stopped over 40' away from Washington Blvd which is more than double the setback of intersections in the western half of the corridor. Geometric modifications would improve functionality and driver behavior without requiring further traffic calming.





Question 5, 6, 7 Analysis

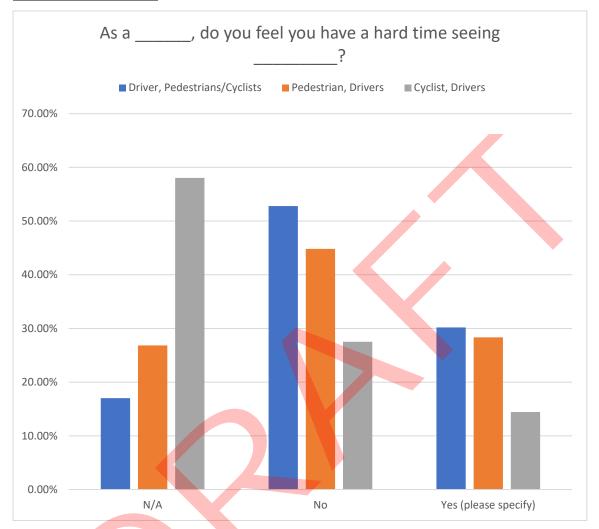


Figure 9. Drivers, Pedestrians, and Cyclists response regarding being seen along Washington Blvd.

The final three questions seek to understand the average experience using Washington Blvd from the perspective of a driver seeing pedestrians and cyclists, a pedestrian seeing oncoming vehicles, and a cyclist seeing oncoming vehicles. All three questions had an open response section to try and narrow down the specific intersections drivers and pedestrians feel most at risk.

In the case of pedestrians and drivers roughly 30% of both groups felt they had a hard time being seen or seeing the other. To get a better idea if pedestrians and drivers have issues on the same streets we looked at the open response data and compared the two questions. Cyclists were not used for this comparison due to the much smaller data set of open ended responses to work with.





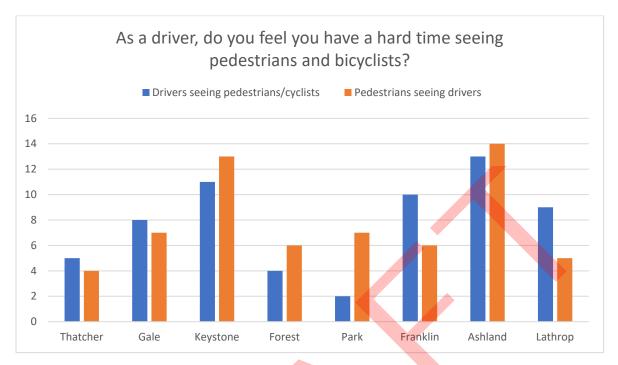


Figure 10. Open ended responses by Drivers and Pedestrians from the previous question.

Based on the side-by-side charts it is clear there is an overlap between pedestrian and driver perception of the areas where sightlines may be compromised. For both open-ended response sections 62 residents left feedback. While the overall distributions may be different the clear pattern is that Keystone and Ashland are perceived as intersections where sight distances are compromised.

At Ashland Ave, this was what we would expect to see based on the extreme setback of the sidewalk from the road. This pattern is more pronounced looking at the drivers responses where both Franklin Ave and Lathrop Ave also had elevated response rates. This was likely due to the odd sidewalk setback continuing at both nearby intersections. From the perspective of pedestrians, the two neighboring signalized intersections may provide a greater sense of safety as they can utilize a marked crosswalk during a pedestrian walk phase. Thus, those roads were not considered as dangerous by pedestrians responding.

The responses claiming Keystone has compromised sightlines were surprising for TEG. Knowing that drivers often roll through the stop at the intersection may explain some of the responses, but TEG did not feel the trees and landscaping around the intersection would impact drivers' ability to spot pedestrians approaching to that extent. This is especially true if a driver came to a complete stop and assessed their surroundings before continuing forward.

The remaining responses were spread across the corridor. The next most mentioned intersection was at Gale Ave with 15 respondents mentioning concerns on Gale between pedestrian and driver responses. This makes sense based on the density of trees and landscaping around the intersection. The fact that drivers on Washington Blvd do not need to stop makes it harder for them to register a pedestrian crossing or waiting to cross amongst the other visual clutter. Currently there is sidewalk crossing Washington Blvd on the east and west legs with no crosswalk to indicate to drivers that pedestrians may be crossing in the area.





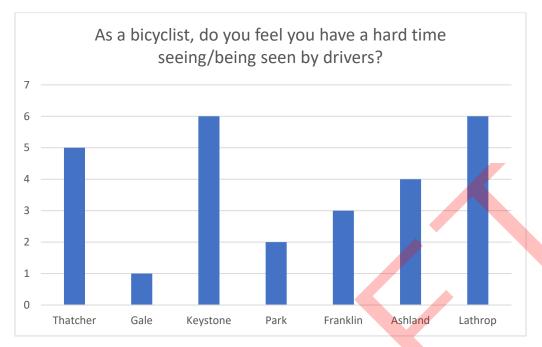


Figure 11. Open ended responses by Cyclists to the previous question.

Cyclists had a much smaller pool of open-ended responses (27) due to less residents regularly cycling on Washington Blvd. Their responses may be from the perspective of a rider entering Washington Blvd from a side street or a rider navigating Washington Blvd. Clearly, the two all-way stop intersections of Thatcher Ave and Keystone Ave are concerning to cyclists. This may correspond with the perception that drivers regularly do not stop at those two intersections. More cyclists felt they couldn't be seen as we head east through the intersections of Park Ave, Franklin Ave, Ashland Ave, and Lathrop Ave. TEG speculates that this is due to the unique geometry in that portion of the corridor and cyclists feeling less safe/seen at signalized intersections generally. Providing protected bike facilities would be the best way to give bicyclists a designated place on the road where drivers can expect cyclists.

In all situations, the majority of residents did not feel they had any issues being seen or seeing oncoming traffic. Breaking data down by how often each respondent uses the road creates a similar distribution as above with the primary difference being a higher percentage of residents feel they are having a hard time being seen the more often they use the road. Summary of data and individual tables can be seen in Appendix B.01: Survey Response Graphs & Data. The primary value in resident responses was to gather which intersections residents feel are most dangerous. This allows us to focus our efforts and suggest changes that will positively impact all road users.

Recommendations/Alternatives

Washington Blvd had all segments scored using the Traffic Calming Toolbox (TCT) designed for the Village as part of this project. Please refer to Appendix F.04: Traffic Calming Toolbox Scoring Sheets for individual scores. Every segment fell into the Level 3 category of improvements, meaning the roadway is eligible for improvements up to Level 3 of the improvement matrix (See below).





	Primary Issue Addressed					
Available Traffic Calming Measures	Speed	Volume	Pedestrian Safety			
Level 1 - No Traffic Flow Changes (25-39 points)						
Targeted Speed Enforcement	X					
Speed Radar Trailer	X					
Speed Feedback Sign	X					
Centerline/Edgeline Markings	X					
Updated Signage (New/Larger/Refreshed)	Х		Х			
Speed Limit Signage	Х					
Flashing Signs	Х		X			
Pavement Legend	X		X			
High Visibility Crosswalks			Х			
Education/Community Outreach	Х		Х			
Level 2 - Some Traffic Flow Changes (40-59 points)						
Sign Turn Restrictions/Turn Movement Restrictions		Х				
On-street Parking Strategies	Х					
Parking Lane Markings	X					
Textured Pavement	X					
Rumble Strip	Х					
Rapid Rectangular Flashing Beacon			Х			
Left-turn Improvements			Х			
Level 3 - Significant Traffic Flow Changes (60-79 points)						
Curb Extensions	X		X			
Mid-Block Chokers	Х		Х			
Center Island Narrowing/Pedestrian Refuge			X			
Stop Signage		X				
Traffic Circle	Х	Х				
Roundabout	Х	Х				
Realigned Intersection	Х	Х				
Speed Hump/Speed Cushion	Х	Х				
Speed Table/Raised intersections	Χ	Х				

Table 5. Traffic Calming Toolbox Levels of Improvement.

Since the corridor is a half mile there are multiple segments with changing characteristics and roadside conditions throughout. Analysis and scoring were done on the segments between each intersection to verify the tier of improvements available at each location. All segments within Washington Blvd had a score of between 65-75 which fell into the tier 3 improvement category.





A typical cross section of the road where parking is removed on one or both sides and protected bike lane(s) are installed would be the preferred option from TEG's perspective. This would allow more room for additional traffic calming features and would make the roadway much more accommodating for bicyclists who are at risk trying to share lanes with cars going 15 mph over the speed limit. At the Washington Blvd bridge there is a road diet project that is reducing the four-lane cross section down to two lanes with a protected bike path. If possible this cross section should be tied into any improvements along Washington Blvd.

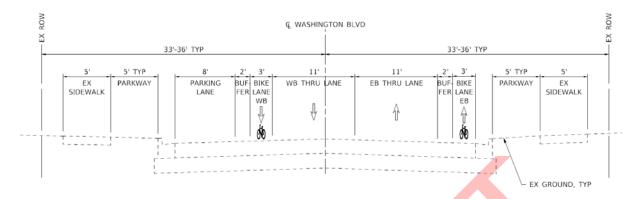
Based on conversations with Village staff, as well as survey responses, TEG understands that removing parking will be unpopular with some residents in the area. TEG plans to focus on maintaining parking along one side of the road while eliminating parking on the opposite side to make room for an on-street bike lane. As mentioned previously, parking along the corridor was at 50% or less utilization in the parking and commuter study previously done by the Village. This indicates that while residents feel parking is necessary there is clearly an overabundance in the corridor that may be negatively impacting the roadway. By consolidating parking to one side of the road TEG would like to repurpose the existing southern parking lane for bike facilities while increasing the utilization of the remaining parking.

Alternative 1 (Preferred)

All recommendations discussed above have been compiled and drafted into a proposed exhibit for Washington Blvd and can be seen in Appendix F.05: Washinton Blvd Exhibits. Within the exhibits TEG used the preferred design and cross section as detailed above. TEG is proposing an alternative roadway cross section throughout the corridor. We have developed two new typical sections, one for the east half and one for the west half with the transition point at Park Ave. The western cross section maintains all parking along the north side of Washington Blvd, narrows the lanes to 11' in each direction, and provides a 3' bike lane with 2' buffer on the north and south side of the street (See figure 12 below). The eastern cross section will keep the current lane configuration from Park Ave to Lathrop Ave, but lanes will be reduced to 11' widths and a two-foot striped median will be installed (See figure 13 below). Throughout the eastern section, cyclists will be provided 8' multi-use paths north and south of Washington Blvd. TEG updated our capacity model to function without right-turn slip lanes at the intersections and found only minor changes in the overall capacity of the road (See Appendix C.03: Alternative Volumes & Level of Service – AM and Appendix C.04: Alternative Volumes & Level of Service – PM).



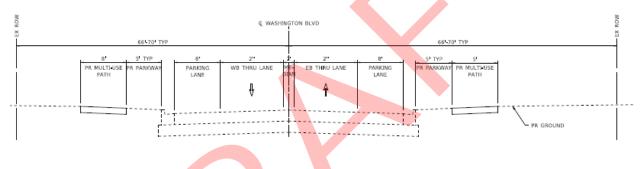




WESTERN ALTERNATIVE 1

THATCHER AVE - PARK AVE (FACING EAST)

Figure 12. Proposed Western Typical Section Washington Blvd.



PARK AVE - LATHROP AVE

Figure 13. Proposed Eastern Typical Section Washington Blvd.

Speeding is considered an issue throughout the entire project; intersection or segment specific concerns and countermeasures are detailed below:

Thatcher Ave Intersection:

- Install Sign Mounted 8" Flashing Beacon on stop warning signs along Thatcher Ave.
- Install a raised intersection.
- Install curb extensions on the northeast corner.
- Provide dotted lines showing cyclists path from the west leg to the east leg to stay within bike lanes.
- Redesign Existing crosswalk to be a raised crosswalk.

The intersection with Thatcher Ave has an elevated angle crash rate unexpected at an all way stop intersection. Speed is likely a contributing factor increasing the severity of all crash types. Residents have stated that drivers often do not stop at the stop signs at this intersection. While TEG did not feel the stop signs on any approach were hard to see it is possible that speeding drivers don't notice the stop warning signs prior to the intersection and also miss the stop signs at the intersection. To combat this 8" flashing





beacons should be placed on the Stop Ahead Warning signs or the signs should be replaced with flashing LED bordered warning signs

TEG also proposes to install a raised intersection. This physical obstacle forces drivers to slow down and creates more awareness at the intersection. Since this intersection is a gateway to the rest of the Village and speeding appears to be common TEG felt aggressive countermeasures were necessary at this location.

The east leg of the intersection should be restriped using the new proposed cross section. This will provide facilities for cyclists that can tie into the new cross section west of Thatcher Ave.

Gale Ave:

- Install curb extensions along the north side of the road.
- Provide dotted lines showing cyclists path from the west leg to the east leg to stay within bike lanes
- Provide striped crosswalks across Washington Blvd.

Gale Ave suffers from the same elevated angle crash rate as Thatcher Ave including one pedalcyclist crash. Since Washington Blvd is not stopping at this intersection TEG theorizes that sight distance issues and speeding are the primary causes of the angle crashes. Residents verified this in survey response data. To increase visibility while decreasing visual clutter at the intersection parking on the south side of the road should be removed in favor of bike lanes. Curb extensions should be provided along the north side of Washington Blvd to bring pedestrians closer to oncoming traffic. Parking is available on Gale Ave and the north side of Washington Blvd for residents who can no longer park on the south side.

Crosswalks are currently striped on the north and south legs at Gale Ave. To create more visibility for the intersection and to connect existing sidewalks, crosswalks should be striped on the east and west legs. Pedestrian warning signs should be installed with the crosswalks for consistency with other parts of the corridor.

Keystone Ave:

- Install a raised intersection.
- Install curb extensions along the north side of the road.
- Provide dotted lines showing cyclists' path from the west leg to the east leg to stay within bike lanes
- Redesign Existing crosswalks to be raised crosswalks.

Keystone Ave saw the same elevated angle crash rate as both Thatcher Ave and Gale Ave. Since this location is an all way stop similar improvements were recommended to those at Thatcher Ave. Sight distance seems to be worse for all legs of the intersection than Thatcher Ave due to large trees and landscaping near the intersection. TEG recommend installing a raised intersection to provide multiple points of traffic calming as a driver moves along Washington Blvd.

TEG recommends removing street parking along the south side of the road to provide bike lanes. Curb extensions should be provided along the north side of Washington Blvd to bring pedestrians closer to oncoming traffic. Signs to not drive in the parking lane are a result of unused parking in the area and evidence that drivers attempt to improperly use the parking lane as a second lane. At the all way stop intersection this can be dangerous if drivers on the other legs are not expecting a second lane of traffic.





This behavior is even more dangerous at Keystone Ave due to the compromised sightlines. Removing parking and adding curb extensions will eliminate the possibility for drivers to incorrectly use the intersection.

Forest Ave:

- Install a curb bump out along the north side of the road.
- Provide dotted lines showing cyclists path from the west leg to the east leg to stay within bike lanes.
- Redesign Existing east crosswalk to be a raised crosswalk.

While this intersection has not seen many crashes, it is the crossing point between two parks. High speed traffic may discourage residents from using the area as it was intended. To slow drivers down while continuing to allow parking along the north side of Washington Blvd, TEG suggests installing a raised crosswalk on the east leg. This will provide greater safety for pedestrians and will force drivers to slow down even though there is no traffic control at this location. Since the parks may have residents visiting by car, parking will remain in the area with the exception that parking on the south side of Washington Blvd which will be removed to install a bike lane.

Due to the number of parks in the area TEG feels prioritizing pedestrian access in this area will benefit the corridor and community.

Park Ave:

- Transition on-street bike lanes to off-street multi-use paths.
- Provide restriped crosswalks using zebra striping to signify any bike crossing locations.
- Fix pedestrian crossing sign location.
 - Move closer to the Franklin Ave crosswalk.
- Install curb extensions on all four corners.

Park Ave has a low crash rate similar to Forest Ave and in this case, TEG recommends transitioning away from the cross section starting at Thatcher Ave to a new cross section that matches the existing conditions with the addition of narrower 11' lanes and a 2' striped median. All four legs should have their crosswalk striping updated to zebra striping. Signing in the area includes a "Stop here for pedestrians" sign for the crosswalk on Franklin Ave. It is unclear that the sign is referring to the crosswalk on Franklin Ave based on how far it is placed from that intersection. TEG suggests relocating the sign consistent with other areas of the Village.

The park in the southeast corner along with the two parks at Forest Ave may attract more pedestrians than other portions of the corridor, so ensuring safe pathways in this area is a priority. Sightlines are adequate up to the intersection in all directions and the lack of crashes even with drivers speeding in the area supports this analysis. TEG suggests maintaining some form of cycling infrastructure through the intersection using a multi-use path along the north and south side of Washington Blvd. The path should be located closer to the existing roadway consistent with sidewalk offsets west of Park Ave.





Franklin Ave:

- Install a raised intersection.
- Remove existing sidewalk and install multi-use path closer to Washington Blvd.
 - o Restripe south crosswalk and move stop bar closer to Washington Blvd.
 - Remove unnecessary sidewalk and existing crossings along north and south side of Washington Blvd.
- Install curb extensions on all four corners.
- Redesign Existing crosswalks to be raised crosswalks.
 - Use zebra striping as applicable.

Franklin Ave is a relatively safe intersection with the main crash type being rear ends. Both drivers and cyclists complained about sight distance issues at Franklin Ave in the resident survey. This may be due to the unique 5-leg intersection geometry and the 40' set back of the sidewalk beginning in the southeast. TEG suggests replacing the sidewalk in the area with a multi-use path setback a maximum of 10' from Washington Blvd. This will ensure pedestrians don't feel disconnected from the street. When drivers can't see pedestrians, they can't make alterations to their driving patterns to account for the possibility a person on foot could come into the road from any angle.

Providing off-street bicycle accommodations will encourage more residents to cycle. It is important to provide facilities considered Level of Traffic Stress 1 (LTS1) by IDOT to allow beginners a safe place to avoid riding in traffic. LTS1 facilities are typically off-road and can comfortably be used by all residents including children, unlike some on-street facilities.

Ashland Ave:

- Remove existing sidewalk and install multi-use path closer to Washington Blvd.
 - Restripe south crosswalk and move stop bar closer to Washington Blvd.
 - Remove unnecessary sidewalk and existing crossings along north and south side of Washington Blvd.
- Install curb extensions on all four corners.
- Provide restriped crosswalks using zebra striping to signify any bike crossing locations.

Ashland Ave saw an extreme number of angle crashes over the analysis period. All groups surveyed agreed that visibility at Ashland Ave is lacking. TEG believes this is primarily due to the large offset of the sidewalks along the north and south side of Washington Blvd that push back the stop bars for drivers waiting to turn onto Washington Blvd.

To correct the problems at this intersection TEG suggests maintaining the on-street cross section and multiuse paths installed beginning at Park Ave. This will relocate the crosswalk closer to Washington Blvd and allow the Village to move the existing stop bar closer to the traveled way. Installing curb extensions on all four corners will make it apparent to drivers on Washington Blvd that there is an intersection at this location.





Lathrop Ave:

- TEG recommend as few changes as possible that will impact the eastern leg
- Install a raised intersection.
- Install curb extensions on the northwest and southwest corners.
- Redesign Existing crosswalks to be raised crosswalks.

The intersection is high volume, and all crash types correspond to what is standard for a signalized intersection. TEG would suggest installing curb extensions to make it clear the road is one-lane per direction as drivers enter the Village. Cyclist considerations should include the termination of the MUP into the existing sidewalk network.

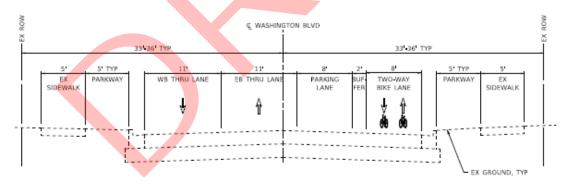
TEG recommends installing a raised intersection at this location as well to slow drivers as they enter the Village. Additionally, multiple raised intersections throughout the corridor are more effective than a single placement. In this case raised intersections at Thatcher Ave and Lathrop Ave will address speeding as drivers enter the Village and the raised intersection at Keystone Ave will help to address speeding within the corridor.

Other Alternative Designs

TEG is proposing alternative cross sections in addition to the preferred alternative. These include both alternative cross-sections that may be implemented throughout the corridor. Below is a listing of these alternative options along with how they fit into the corridor wide improvement.

Western Alternative 2

The Western Alternative 2 proposes two 11' through lanes along the north side of the road, an 8' parking lane, 2' buffer, and an 8' bi-directional bike lane. At Park Ave the cross section would transition to an off-street multi-use path and lanes would shift back to the south. Curb extensions may not be compatible with this cross-section design.



WESTERN ALTERNATIVE 2

THATCHER AVE - PARK AVE
(FACING EAST)

Figure 14. Western Typical Section Alternative 2 Washington Blvd.





Western Alternative 3

The Western Alternative 3 proposes an 8' parking lane along the north side of the road, two 11' through lanes, a 2' buffer, and an 8' bi-directional bike lane. At Park Ave the cross section would transition to an off-street multi-use path. Curb extensions can still be provided at the northern corners using this design.

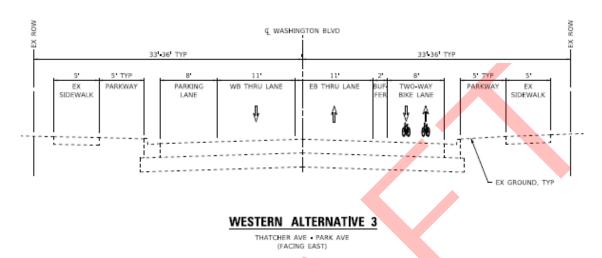


Figure 15. Western Typical Section Alternative 3 Washington Blvd.

Eastern Alternative 2

Eastern Alternative 2 is identical to West Alternative 1. Parking will remain in place along the north side of the road and will be removed from the south side of the road. The cross section provides 8' of parking along the north side of the road, a 2' buffer, a 3' westbound bike lane, two 11' through lanes, a 2' buffer, and 3' eastbound bike lane. Curb extensions will still be provided along the north side of the road and sidewalks will still be realigned at the intersections to be closer to Washington Blvd.

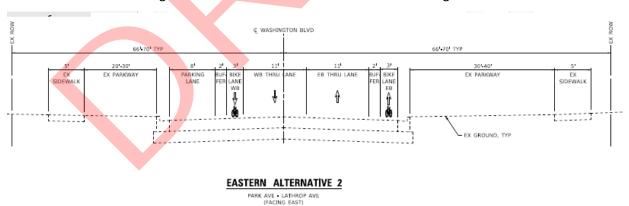


Figure 16. Eastern Typical Section Alternative 2 Washington Blvd.

The intention of providing multiple lane configurations is to allow the Village to select the design they feel is most appropriate in the area. Sample exhibits using alternative cross sections are provided and drafted at sample intersections (Washington Blvd and Gale Ave, Washington Blvd and Ashland Ave) and can be viewed in Appendix F.05: Washinton Blvd Exhibits.





THATCHER AVE SPEED STUDY

Introduction

Thatcher Ave was identified as an area of interest due to its imbalanced lane configuration and observed speeding during initial field assessments. The Village confirmed the location was known to have speed issues, and this was further supported upon reviewing the results of the Village-wide survey. In the corridor from Division St to Chicago Ave, 21 residents complained that drivers were speeding along Thatcher Ave.

TEG's analysis focuses on a single representative section of the corridor including one segment and its two bounding intersections. While it is likely speed conditions will apply to the areas south and north of the studied corridor, a more in-depth study of the full corridor will need to be completed at a different time or as an extension of the findings in this report. TEG is aware that the Village would like to provide bike infrastructure through the corridor in the future. TEG noted this portion of Thatcher Ave has already been identified to receive a bike lane within the Village's Comprehensive Plan approved in 2019. All recommendations will take future bike accommodations into account. Knowing this, TEG will use this study as a starting point to determine existing issues that need to be addressed in conjunction with new bike facilities that make cyclists feel safe on the road.

Existing Conditions Analysis

The existing road is designed with an imbalanced lane configuration with two southbound lanes and one northbound lane. Center striping is provided throughout the corridor with parking lanes striped along the east side of the road. The width of the road is approximately 41' with three 11' lanes and one 8' parking lane. A curb and gutter is provided along both sides of the road with lighting throughout the corridor. The east side of Thatcher is all residential and is lined with driveways, while the west side of the road is Cook County Forest Preserve. There is a railroad track running northwest to southeast crossing Thatcher Ave at the mid-point between Division St and Augusta St. The train crossing is fully equipped with flashing lights and gates for crossing vehicles. There are currently no gates for the sidewalk crossing.

The posted limit on Thatcher Ave is 25 mph and there are multiple speed limit signs posted for north and southbound traffic. This includes a driver feedback sign north and south of the study area for northbound traffic only. The speed limit of both side roads included in this analysis are also 25 mph.

At the termini intersections, Thatcher Ave maintains the same cross section with a break in the center striping to allow southbound traffic to turn left. The second southbound lane along Thatcher Ave allows drivers not turning left to go around the driver waiting to complete their left turn. TEG believes this was the intention of striping two southbound through lanes even though the directional split of traffic volumes along Thatcher Ave are close enough that an imbalanced lane configuration would not normally be considered. In this case TEG does not feel the imbalanced lanes are an issue unless they result in unsafe conditions along the segment or at either intersection.

The northern intersection with Division St is a minor stop-controlled tee-intersection with Thatcher Ave. The north leg of the intersection differs from the standard Thatcher Ave cross-section by restricting parking on the east side of the road using diagonal striping. North of the study terminus the road curves to the northeast. At the intersection, Division St has a two-lane cross section with a striped bike lane running along the outside of the travel lane north and south of the road. Parking is striped along the north side of





the road. Sidewalk is provided along the east side of Thatcher Ave from the south with a standard crosswalk striped across Division St. Sidewalk continues east along the north side of Division St, but does not continue along Thatcher Ave. There are two universities and a high school sports facility located along Division St and may serve as a trip destination for many drivers turning onto Division St.

There is potential for a high pedestrian demand in the corridor due to access for the Des Plaines River Trail requiring a theoretical cyclist to navigate the intersection between North Ave and Thatcher Ave before reaching the trail. Currently, there is no way for a cyclist to avoid this intersection without leaving River Forest and taking an indirect route to reach the trail. This indirect route is unnecessary assuming a cyclist could safely travel on Thatcher Ave. In the existing conditions with potential speeding along Thatcher Ave and no protected bike lane, most casual cyclists will feel unsafe sharing a lane with vehicles. This is the case along all roads with no striped/protected bike lanes, but especially when the route being entered is high volume (see next section) and along a curve where cyclists may be hard to see like Thatcher Ave. Making the corridor along Thatcher Ave from Chicago Ave to North Ave more cyclist friendly will promote multi-modality and address a lapse in the cycling network. TEG noted the potential for connectivity between the Des Plaines River Trail and the Illinois Prairie Path by installing bike lanes along Thatcher Ave and Madison Ave, but that goes beyond the scope of this study.

It is unclear if sight distances are acceptable for drivers waiting to turn from Division St. The curve north of the intersection does impair vision, but it appears minor. At a design speed of 25 mph the required intersection sight distance is 280'. It appears the existing sight distance on Division St is between 300'-400' looking north which is over the minimum. Speeding southbound drivers on Thatcher Ave may result in an insufficient sight distance based on the real-world speeds.

The southern intersection between Thatcher Ave and Augusta St is also a minor stop-controlled tee-intersection entering Thatcher Ave from the east side. Thatcher Ave maintains its standard cross-section north and south of the intersection. Augusta St is a two-lane two-way street with 12' lanes, center striping, and no on-street parking permitted. Sidewalk runs along the north and south side of Augusta St and along the east side of Thatcher Ave. There is a ladder-style crosswalk striped across Augusta St. Based on roadway features Augusta St appears to be lower volume than Division St (see next section), this may be due to the presence of multiple universities along Division St drawing traffic. Drivers on southbound Thatcher Ave cannot turn left onto Augusta St due to a sign restricting the movement.

The intersection between Thatcher Ave and Augusta St does not appear to have any geometric deficiencies in the existing condition. The left turn restriction at the intersection seemed unnecessary for capacity reasons, but it may have been implemented to improve safety. TEG sees no reason to restrict left turns at Augusta St in the existing condition. If a southbound driver was taking time to make a left turn the drivers behind them would have the option to go around using the outside southbound lane. From a safety standpoint there is clear vision of oncoming traffic for a driver waiting to turn left. It is unclear why the left turn restriction was initially put in place, but TEG recommends reconsidering how necessary this turn restriction is prior to implementing any countermeasures in the area.

Volume Analysis

Knowing the volumes along all studied routes and how they interact with each other is important to understanding the operation of the corridor and focusing on potential deficiencies. Based on traffic volume counts performed in December 2022, TEG found that average daily traffic (ADT) is roughly 10,000 vehicles





along Thatcher Ave, 5,200 vehicles along Division St, and 1,500 vehicles along Augusta St. Thatcher Ave has the highest north-south ADT in the Village other than Harlem Ave. Division St represents a moderately busy collector street and Augusta St functions as a residential road. This corridor gives a good sample of intersection volumes along Thatcher Ave to determine how the road interacts with small and large side-streets.

Along Thatcher Ave the primary concern is whether existing capacity during the peak hours is adequate to process the number of vehicles travelling through the corridor and entering from both intersections. Under free flow conditions approximately 1,900 vehicles can be processed per hour per lane. Based on peak hour volumes along Thatcher Ave, the roadway would be more than adequate for the existing peak hour volumes along Thatcher Ave of approximately 1,200 total vehicles including both directions of traffic. This is reflected in the Village-wide Synchro Traffic analysis in which Thatcher has an LOS of A or better at each intersection.

Based on these values the road should not experience traffic due to reaching capacity. Any traffic delays will be a result of drivers stopping at intersections to turn or to obey traffic control. Since the road is operating under capacity in both directions there is no reason to believe a secondary southbound lane would be required except. TEG's recommendation would be to install an auxiliary lane at the intersections instead of providing a second southbound lane for the extent of the corridor. In between the intersections, this center lane could either be a striped median or a two-way left turn lane to provide driveway access.

Currently the Level of Service (LOS) on Division St is an E which is failing, but both the northbound and southbound lanes on Thatcher Ave have a LOS of A. This means minimal delays for drivers turning off Thatcher Ave and long delays for drivers waiting to turn off Division St. This may encourage drivers on Division St to find other routes out of the Village that avoid the intersection between Division St and Thatcher Ave to avoid delays. More vehicles entered Division St than exited throughout the day and at both the AM and PM peak hour times. The imbalance is roughly 400 more vehicles per day entering than exiting and may be evidence of drivers attempting to avoid the delays while exiting using Division St.

The opposite pattern was observed at the intersection between Thatcher Ave and Augusta St where approximately 50% more drivers (300) exited Augusta St than drivers who turned from Thatcher Ave. The pattern is consistent throughout the day. TEG noted that most drivers at the intersection (~70%) turn right to go north on Thatcher Ave. Using the same roads the return trip would involve a left turn back onto Augusta St which is illegal at the intersection. This makes a return trip reversing the route originally taken impossible for 70% of drivers who are turning right off Augusta St. This may help to explain why so many drivers turned left at Division St. In a way this causes Division St and Augusta St to operate as a couplet where drivers turning right to leave Augusta St end up returning by turning left onto Division St to avoid the turn restriction at Augusta St. The result of this configuration is more traffic exiting Augusta St onto Thatcher Ave and more traffic reentering the Village by taking Thatcher Ave south and turning left onto Division St.

The LOS on Augusta St at the intersection is a C which is acceptable. Total traffic at the intersection is significantly less than at Division St and TEG expects that most drivers at Augusta St will wait in a short queue before turning onto Thatcher Ave. Knowing that traffic during the peak hour periods is roughly ~120 westbound vehicles it is unlikely that drivers experience pressure to turn quickly while waiting at the





intersection with Thatcher Ave. In most cases drivers waiting at the intersection will be in a queue of at most one to three vehicles.

Speed Analysis

TEG conducted a speed study along the segment of Thatcher Ave between Division St and Augusta St over a 24-hour period to determine the presence and extent of any existing speed issue in the area. When analyzing speed data, it is commonplace to look at the 85th percentile speeds as a representative sample of the speed that most drivers feel comfortable traveling at through the corridor. Typically, the speed limit and the 85th percentile speed are within a few miles per hour of each other. Along Thatcher Ave this is not the case. The 85th percentile speed was 41 mph – along a road posted with a speed limit of 25 mph. This is a significant speed differential that may result in drivers on Thatcher Ave feeling unsafe when attempting to follow the speed limit (other drivers honking or riding too closely).

Looking closer at the 85th percentile speeds broken down by lane TEG noticed that northbound drivers 85th percentile was 38 mph, the southbound inside lane 85th percentile was 42 mph, and the southbound outside lane 85th percentile was 44 mph. This could be indicative that the unbalanced lane configuration makes southbound drivers feel they can drive faster without feeling unsafe. This is expected because southbound drivers on the outside leg can speed without worrying about other drivers stopping to turn left. This explains the higher 85th percentile speed in the outside lane compared to the inside. Other factors for northbound traffic such as striped parking lanes making the lane appear narrower and multiple entering driveways likely work as a minor form of traffic calming reducing speeds for northbound traffic.

Compiling the 85th percentile for all lanes and breaking the data down by hour revealed that drivers were traveling anywhere between 9-21 mph over the speed limit in any given hour without exception. This is clearly a roadway with severe speed issues.

TEG noted that the Village does not currently have a road with a speed posted above 25 mph to cross the Village north-south other than Harlem Ave (30 mph). This may leave drivers looking for an efficient route to traverse north-south across the Village without going to the opposite end of the Village to use Harlem Ave. In its current state Thatcher Ave fills this niche operating as a perimeter road allowing drivers to use a route with minimal stops to get north-south efficiently. While filling its role as a perimeter road there are some design aspects of Thatcher Ave that may mislead drivers into thinking the road has a speed limit between 35-40 mph. These features include:

- Multiple southbound lanes
 - o More than one lane per direction is not typical on low-speed roads.
- Road width
 - O Similar to having multiple lanes per direction having a wide road-way signals to drivers it is a more major street and typically has higher speeds.
- Turning restrictions
 - Generally low-speed residential roads do not restrict turns onto other residential roads like at the intersection with Augusta St.
- Lack of pedestrian and cycling facilities
 - While there is a sidewalk along the east side of Thatcher Ave it is not continuous up to North Ave and there is no matching sidewalk along the west side of the road.
 - o There are currently no bike facilities along Thatcher Ave.





• This might give drivers the impression that pedestrians/cyclists are not expected along the road.

These issues become worse if drivers are not paying attention to the posted limits or miss seeing a sign. Due to the severity of speeding, TEG feels that changes to the entire corridor may be warranted to correct the issue. These changes would include:

- reducing southbound traffic to one through-lane as a form of natural traffic calming
- Installing the bike lane along Thatcher Ave as described in the 2019 Comprehensive Plan
- Periodic raised intersections
 - This improvement would be most beneficial at entrances to the Village to address traffic along Thatcher Ave and drivers entering the Village from the west with the same improvement.

These improvements should effectively change the character of the road, which should in effect reduce driver speed. Due to the severity of the existing speed issue more countermeasures may be required in the future, but the current recommendations will change so much about the operation of the road that a reevaluation will be required before suggesting additional future countermeasures.

Crash Analysis

TEG analyzed crash data within the Village over a six-year period from 2016-2021 for Thatcher Ave from Division St to Augusta St

Higher speed crashes tend to result in more severe injuries, so addressing the speed will be key for improving safety in the corridor. Within the study area there has been two A-injuries and one cyclist crash. The studied segment has the highest crash rate along Thatcher Ave while the two studied intersection are the 4th and 6th highest scoring intersections along Thatcher Ave. TEG believes this is a good representative area for study including a segment, an all-way stop, and a minor leg stop.

Thatcher @ Division St: 18 Crashes 1 A-injury, 1 B-injury, 1 C-injury

4 Fixed Object

4 Turning Left: 1 B-injury

3 Rear End: 1 C-injury

3 Other Object

1 Head On: 1 A-injury

1 Angle

1 Turning Right

This intersection has seen several severe injuries and has had three crashes per year on average. No individual crash type stood out as a recurring crash pattern. Seeing a moderate crash rate coupled with a high injury rate where no one crash type stands out is more common at locations with existing speed issues. Since drivers are using the road at faster speeds than what was designed for, this has a significant impact on the curves, sight distances, and stopping distances. There is a higher likelihood of error or a driver losing control resulting in a variety of crash types with more injuries. This explanation makes sense





for the eight lane departure crashes (fixed object, other object, and head on) and accounts for the A-injury crash. Decreasing speeds along the road makes it less likely that drivers will lose control of their vehicle resulting in fewer lane departure crashes. The four crashes involving southbound left turning drivers and the two angle/turning right crashes are also less likely when oncoming traffic is slower. Slower oncoming vehicles gives waiting drivers more time to judge their turn. If a driver expects oncoming traffic to be moving at 25 mph this could also result in crashes when oncoming traffic is traveling over 60% faster than expected through the corridor.

Two of the three rear end crashes occurred between southbound drivers. In theory, if southbound traffic on Thatcher Ave was reduced to one lane of traffic the number of rear end crashes between drivers slowing down to turn right and drivers going straight would likely increase. TEG's goal at the intersection and through the corridor is safety. A reduction in perpendicular crashes and crash severity would provide significant safety improvements even if there was a moderate increase in the comparatively much less dangerous rear end crash type.

The lack of angle crashes suggests that sight distance is adequate at the intersection or drivers have adapted their driving to avoid turning southbound from Division St. This may explain why 70% of drivers on Division St turn right – it is unclear if the directional split is due to more drivers needing to go north to North Ave or if drivers who would want to turn southbound have changed their route to avoid turning left across Thatcher Ave.

Thatcher Ave @ Augusta St: 5 Crashes 2 B-injuries

2 Rear End

2 Angle: 1 B-injury

1 Pedalcyclist: 1 B-injury

While there is only about one crash per year at this intersection, there has been a high rate of injuries with 40% of the crashes that did occur resulting in B-injuries. Since this intersection has considerably lower volume than Division St it is expected that crash rates would also be lower. Despite this, seeing two angle crashes and a cyclist crash indicates the intersection may not be operating safely.

Due to only five total crashes occurring at the intersection, it is hard to establish a crash pattern. At this point, TEG feels that lower speeds in the corridor would have resulted in fewer injuries and may have resulted in several of the crashes not occurring at all. If traffic calming along the road is effective, TEG expects crash and injury rates to go down naturally at the intersection. The location should be reevaluated in the future to verify this is the case. Less than one crash per year would not generally warrant crash specific countermeasures. Unless one crash type becomes dominant, injuries remain common, or crash rates go up, TEG does not believe any crash specific countermeasures should be implemented at this intersection.





Thatcher Ave: From Division St to Augusta St: 6 Crash 1 A-injury, 1 B-injury, 1 C-injury

2 Fixed Object:1 A-injury

3 Rear End: 1 B-injury

1 Other Object: 1 C-injury

The six crashes did not exhibit any patterns but did display a high rate of injuries, similar to the intersections. 50% of all crashes resulted in injuries with the most severe injury being an A-injury fixed object crash. Three of the six crashes involved a driver hitting a non-moving object due to lane departure. Generally, these types of crashes are exacerbated by higher speeds. The same can be said for the three northbound rear end crashes. TEG assumes these are vehicles stopping for a train or drivers turning into driveways since no other stop points are present. In these situations, both drivers going the speed limit would give the rear driver enough time to react to the lead driver braking.

Recommendations/Conclusion

There are severe speed issues throughout the study area; and it is likely these speed conditions extend beyond the studied location. Verification of these issues would need to be part of a more focused corridor study. The crash patterns in the area are also indicative of speeding. An 85th percentile speed of 41 mph on a 25 mph speed demonstrates a serious discrepancy between posted limit and the speed most drivers travel along the road at. To bring speeds in line with the existing speed limit, TEG believes changes would need to be made throughout the corridor not just the study area.

TEG noted that the road had the character of a higher speed road than the 25 mph posted speed. When this is the case and when the 85th percentile of drivers is significantly above the posted speed limit, it is important to consider if a speed limit adjustment is appropriate. Without studying the full corridor TEG would not make a specific recommendation for a new limit, but adjusting the limit up by even five miles per hour gives drivers the ability to go fast compared to other Village roads without going 40 mph in a residential area. Regardless of speed limit changes. TEG would recommend some traffic calming to bring speeds in line with what is safe for the roadway. TEG would strongly advise considering the Village's future goals for the Thatcher Ave corridor before making any changes. Since drivers have been driving 40 mph though the area for a while and are used to these speeds; reducing the speed in the corridor may have unintended consequences for the rest of the road network.

If the Village would like to follow through with traffic calming along the road TEG would advise using a variety of countermeasures and spacing countermeasures out through the corridor. Since this study found speed issues in the segment between Division St and Augusta St, these speed issues cannot necessarily be applied to the entire corridor without further study. These recommendations are given under the assumption that speed continues to be an issue south of the study area to Chicago Ave where the dual southbound lanes end. Similarly, TEG assumes speeds remain consistent to North Ave, since no major changes in roadway cross-section are present north of the Division St intersection. Past these intersections the road cross section changes and it is unclear if speeding would continue.





TEG recommends making the following changes to the corridor bounded by the signalized intersections of North Ave and Chicago Ave:

- Consider removing the second southbound lane or repurposing the lane for southbound left turns into driveways.
 - This lane is not needed for capacity reasons and if an auxiliary lane is necessary at an intersection it should not also be used as a through-lane (See Appendix C.03: Alternative Volumes & Level of Service AM and Appendix C.04: Alternative Volumes & Level of Service PM).
 - Having dual southbound lanes gives the impression the road is higher speed than what is posted.
 - o If maintaining the secondary lane it should be changed from a through lane to a shared left turn lane for residents turning left into driveways along Thatcher Ave.
- Install bike facilities along the road
 - o Following the 2019 Comprehensive Plan, TEG suggests providing bike facilities to promote connectivity to the Des Plaines River Trail to the north.
 - The existing condition with drivers traveling 40 mph is unsafe for a cyclist to try and share the lane.
- Install raised intersection(s) at the Chicago Ave (signalized) intersection and The Division St (minor-stop) intersection.
 - Since the road is posted 25 mph the slowdowns caused by raised intersections would be minimal (the raised intersection can be designed based on a desired speed).
 - Since it is a physical installation, drivers risk damaging their vehicle if they continue to speed at the current rates.
 - Evenly spacing the raised intersections helps to prevent drivers from immediately speeding up after passing the countermeasure.
 - Raised intersection planned at Division St benefits cyclists entering Thatcher Ave from the bike lane.
 - Raised intersection planned at Chicago Ave slows drivers on Thatcher Ave and drivers heading eastbound into the Village.

From a geometric and operational standpoint, the existing issues seem to be caused by the severe speeding in the corridor. TEG feels that resolving speed issues would mitigate the high rate of injury for crashes in the corridor. Slowing traffic down will have impacts to the road network and TEG believes a more in-depth corridor study would be beneficial to help ensure changes along the corridor do not result in unforeseen consequences for other nearby roads.





APPENDIX A: TRAFFIC CALMING TOOLBOX

- 01. Traffic Calming Toolbox Memo
- 02. Scoring Matrix
- 03. Matrix of Improvements
- 04. Cost Matrix
- 05. Summary of Improvements w/ Pictures





Traffic Calming Toolbox Memo







TRAFFIC CALMING TOOLBOX

"The primary purpose of traffic calming is to support the livability and vitality of residential and commercial areas through improvements in non-motorist safety, mobility, and comfort. These objectives are typically achieved by reducing vehicle speeds or volumes on a single street or a street network. Traffic calming measures consist of horizontal, vertical, lane narrowing, roadside, and other features that use self-enforcing physical or psycho-perception means to produce desired effects."

- Federal Highway Administration definition of traffic calming

Introduction

Having a standardized roadway system is imperative to the safety of residents and drivers alike. Predictability on a road increases safety and decreases variability when traveling to different parts of the Village. The goal of this traffic calming toolbox and scoring sheet is to assist the Village in identifying locations for further study, choose from a list of appropriate countermeasures, and maintain consistency of traffic improvements throughout the Village.

The process will begin with either an internal initiation by the Traffic and Safety Commission identifying a location with potential traffic problems, or a resident petition being presented to the Traffic and Safety Commission. From there the scoring document will be used to evaluate the location and determine what improvement categories apply. The improvement type used will be left to the discretion of the Traffic and Safety Commission in conjunction with resident and Village Staff input. In addition to the "Improvement Matrix" which lists the improvement types that may be considered, this document also includes a "Cost Matrix" to further inform the reader of potential cost implications and to identify ideal locations for each improvement type.

The improvement types are taken from the Federal Highway Administration's (FHWA) recommendations for traffic calming along with Thomas Engineering's own experience completing traffic studies around the state. The scoring sheet and matrix are meant to serve as guidelines for the Village. All improvements should rely on site specific criteria to determine the optimal countermeasures at each location. The relevant application of each improvement will ultimately be up to the Traffic and Safety Commission and Village Board.

Scoring Criteria

The Scoring Matrix will be the first step after identifying a location for potential traffic calming. The location will be analyzed based on recent crash history, vehicle speed (using speed study), average daily traffic, and nearby pedestrian traffic generators (school, library, park, church, or public transit). Additional points will be awarded for locations identified as a bike route per the Village Bicycle Plan implemented in 2019 and/or if the interest in the location was created through a resident petition.

The maximum score a location can get will be 100 points with a minimum threshold of 25 points to proceed with review and potential improvements. Points from this section will be used to determine what level of improvements can be used in the Improvement Matrix.





Scoring Process

The scoring process will utilize two intersections and one connecting segment for each scoring category. This means, for example, the crash score will utilize the total crashes at both intersections and the joining segment. While there are some intersection-specific traffic calming measures TEG assumes most studies will be based along a specific road which will then have a suitable segment chosen for study.

For full corridor studies including multiple segments along a road each segment + its two termini intersection will be used to score all segments through a corridor. In the end each segment & intersection combo will have a final score and corresponding level of improvement. In testing scores through a corridor were generally similar, but in the case of segments falling into different improvement levels TEG recommends using engineering judgement to choose the level of improvement most appropriate for the corridor.

Improvement Matrix

After scoring a location the Traffic and Safety Commission should look at the Improvement Matrix to determine what "Level" of improvements should be considered. Using the score from the Scoring Matrix, the Levels are as follows:

Level 1 = 25-39 points – Locations that may have speed and safety concerns not apparent without further review; minimal impact to traffic.

Level 2 = 40-59 points – Locations with minor speed and safety problems; no new physical barriers or traffic control.

Level 3 = 60-79 points – Locations with moderate speed and safety problems; physical barriers or new traffic control may be justified.

Level 4 = 80-100 points — Locations with major speed and safety problems; roadway may be in need of substantial improvements to correct traffic conditions on the road.

Traffic improvements are categorized by how much of an impact each improvement has on drivers using the road. As the impacts to drivers become greater, the effectiveness of the improvement also increases. For this reason, the level 3 and 4 traffic calming measures should be used sparingly to correct areas with clear deficiencies. Some of the level 3 and 4 improvements have secondary criteria that must be met prior to considering the improvement, which are listed in the "Usage Notes" column. For example, in order to install a new all-way stop sign, the intersection must first fulfill an all-way stop warrant.

In general, when considering a location for traffic calming improvements, even if there are enough points to justify a level 3 or 4 intervention, it is recommended that the Village adopt a conservative approach. Starting with a level 1 or 2 improvement is recommended to assess whether or not the existing issues are effectively resolved without significantly impacting drivers' road usage. However, if level 1 or 2 improvements are already in place, it may be appropriate to proceed with a level 3 or 4 intervention.

The Improvement Matrix includes a table which shows the primary issues addressed by each improvement. While all suggested improvements will help calm traffic on the road, each improvement type will primarily impact one to two aspects of road safety. For ease-of-use, the table lists whether the improvements primarily impact speed on the roadway, volume of vehicles, or pedestrian safety. Level 1 and 2 improvements primarily target speed and pedestrian safety. As the impact to the roadway increases





in level 3 and 4, the improvements make the roadway less appealing to travel on due to physical barriers or new traffic control. Slowing down the speed to navigate a corridor will reduce traffic coming from major routes but will also inconvenience residents.

Cost Matrix

The Village can also use the Cost Matrix to consider the approximate cost for each improvement and review a brief description of how/where the improvement should be used in order to determine what changes should be made to the studied locations.

Survey Results

As part of the Village-Wide Traffic Study Survey, Village residents were asked about their preferences for traffic calming measures. This section is intended to provide insight into the current preferences of residents in order to be able to better anticipate potential responses to proposed traffic calming measures.

The following table shows the results of a survey question in which Village residents were asked to indicate which improvements they would like to see more of in the Village:

Improvement Type	% Respondents in favor of improvement
Speed Humps	39%
Mounted Flashing Beacons	39%
Curb Extensions	34%
Driver Feedback Speed Sign	41%
Raised Intersection	26%
None	9%
Other	27%

Table 1

As shown in Table 1, only 9% of respondents did not want to see any new traffic calming in the Village. The three most-supported improvement types were driver feedback speed signs (41%), mounted flashing beacons (39%), and speed humps (39%). Overall, there was generally an even distribution of support across all listed improvement types, with the exception of raised intersections. This, however, may be due to a lack of experience with raised intersections. Therefore, if the Village ever chooses to use this improvement type it may be helpful to provide an education campaign about the benefits and effectiveness of raised intersections.

A total of 27% (238) of respondents listed other forms of traffic calming they would like to see – many of these responses were reaffirming the boxes they checked or did not check in the first portion of the question. When looking into the open-ended responses further, the following trends were identified:

- 1. Many residents expressed dislike for speed humps due to potential damage to vehicle undercarriages
- 2. Residents expressed dislike of flashing beacons because the flashing lights could shine in windows of nearby homes





- 3. Bicyclists complained that curb extensions are dangerous because they force bicyclists into traffic lanes at intersections
- 4. Driver feedback signs are seen as ineffective
- 5. Raised intersections were mentioned in several responses as an improvement, but one that residents are uncertain as to how they would be used

The remaining 238 open-ended survey responses were reviewed and divided into six categories of improvement:

- 1. Additional stop signs (35 responses)
- 2. Roundabouts (13 responses)
- 3. Street closures (16 responses)
- 4. Crosswalk improvements (13 responses)
- 5. More police enforcement (58 responses)
- 6. Speed cameras (19 responses)

From these initial categories the categories were further divided into 'new traffic control' and 'more enforcement' groups. Within the 'new traffic control' group the categories of additional stop signs, roundabouts, and street closures were combined with 64 total respondents preferring new traffic control. New traffic control will not be suggested unless it is warranted by existing traffic conditions. Traffic control improvements are included within the traffic calming toolbox, but these are not to be used without proper justification which is why none were included within the survey. The 'more enforcement' group includes the categories of more police enforcement and speed cameras, which total 77 responses. More police enforcement or auto-ticketing speed cameras are at the discretion of the Village and beyond the scope of this study. The 13 people who suggested some form of crosswalk improvements focused mainly on roadway features to make crosswalks more visible and their suggestions were incorporated into the Traffic Control Toolbox.

Conclusion

Ultimately, many Village residents appear to be open to traffic calming improvements. There seems to be a preference for improvements that would have low driver impact and road treatments with which residents are already familiar. This would explain why speed humps were picked 13% more than raised intersections, even though they are similar treatment types. Only 9% of respondents indicated that they would not want to see any new traffic calming measures implemented. This suggests that there is a demand for well-planned traffic calming measures, even if there is indecision on which measures would be most effective. A Village led information campaign to inform residents of the potential advantages of each improvement type, as well as, outlining how the Village will handle the concerns residents have with things like the flashing beacons or speed humps (such as restricting locations where improvements can be implemented). As the Village's road system continues to evolve with increased traffic volumes and multimodal transportation options, residents will likely adapt and realize the benefits of introducing a wide range of traffic calming methods.





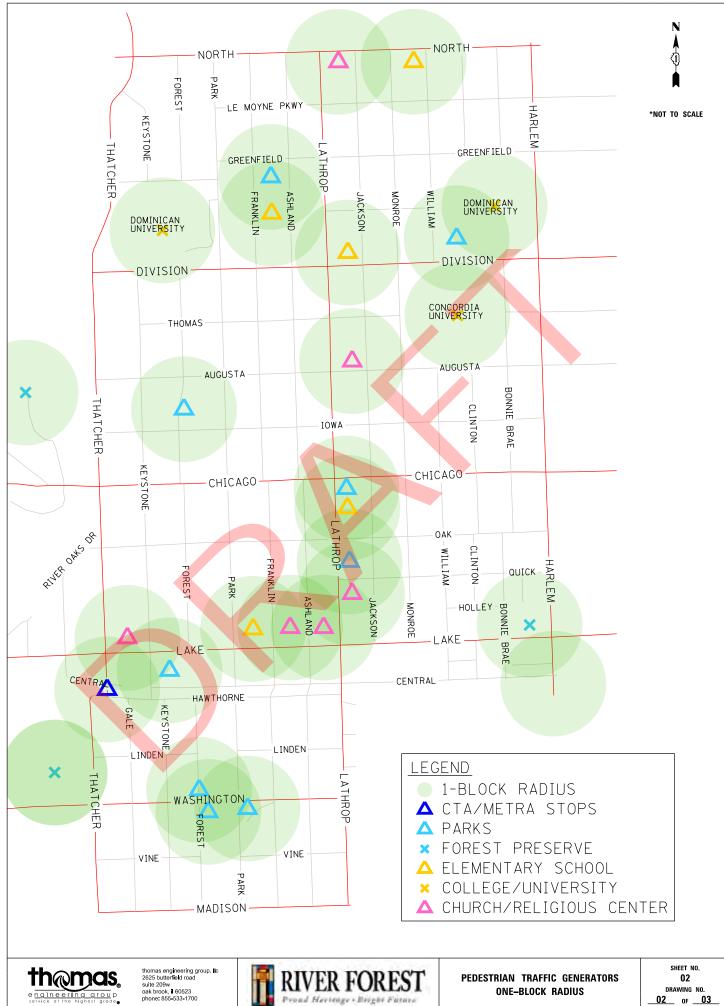
Scoring Matrix

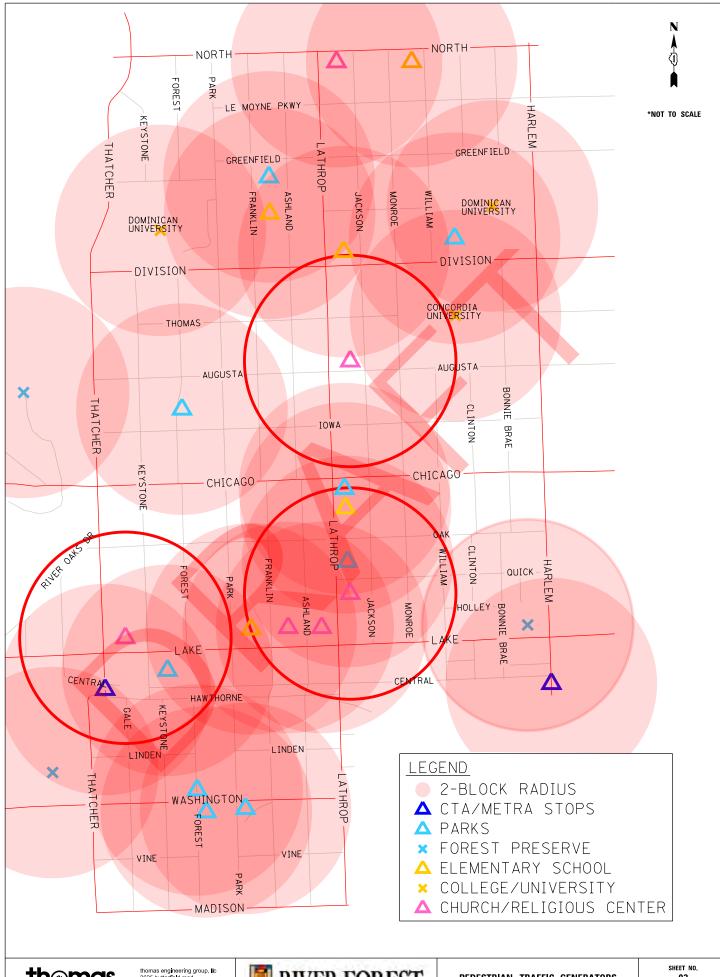


Scoring Matrix



Measure	Criteria for assigning a numerical score to traffic problems	Points
Crash History	1-3 crashes in a 5 year period = 5 points 4-10 crashes in a 5 year period = 10 points More than 10 crashes in a 5 year period = 15 points any crash involving a pedestrian/cyclist = +5 points	0-20 pts. Score:
Vehicle Speed	85th percentile speed is not over the speed limit = 0 points 85th percentile speed is 2 mph over the speed limit = 3 points 85th percentile speed is 4 mph over the speed limit = 6 points 85th percentile speed is 6 mph over the speed limit = 9 points 85th percentile speed is 8 mph over the speed limit = 12 points 85th percentile speed is 10 mph over the speed limit = 15 points Outlier Speed 20+ mph above posted speed limit = +5 points	0-20 pts. Score:
Vehicle Volume	ADT < 750 = 0 points ADT = 751 - 1,350 = 5 points ADT = 1,351 - 1,950 = 10 points ADT = 1,951 - 2,550 = 15 points ADT > 2,550 = 20 points	0-20 pts.
Pedestrian Traffic Generators	Any school, park, library, church, CTA station more than 2 blocks (1,320 ft.) away = 0 points Any school, park, library, church, CTA station 1-2 blocks (1,320 ft.) away = 5 points Any school, park, library, church, CTA station 1 block (660 ft.) or less away = 10 points Three or more overlapping 1-block areas = +10 points Three or more overlapping 2-block areas = +5 points	0-20 pts. Score:
Bike Routes / Non-Bike Routes	Not identified as a proposed bike route = 0 points Identified as a Marked Shared Lane = 5 points Identified as a Dedicated Bike Lane = 10 points *Per Village Bicycle Plan published in 2019	0-10 pts. Score:
Community Interest	No Petition = 0 points Local Petition (0-75% residents on block) = 5 points Local Petition (75%+ of residents on block) = 10 points Village Petition (0-10% of Village population) = 5 points Village Petition (10%+ of Village population) = 10 points	0-10 pts.
Intersection 1: Segment: Intersection 2:		Total:











Matrix of Improvements

Improvement Matrix

	Prima	ry Issue Add		
Available Traffic Calming Measures	Speed	Volume	Pedestrian Safety	Usage Notes
Level 1 - No Traffic Flow Changes (25-39 points)				
Targeted Speed Enforcement	Х			
Speed Radar Trailer	Х			
Speed Feedback Sign	Х			
Centerline/Edgeline Markings	Х			
Updated Signage (New/Larger/Refreshed)	Х		Х	
Speed Limit Signage	Х			If not already existing
Flashing Signs	Х		Х	
Pavement Legend	Х		Х	
High Visibility Crosswalks			Х	
Education/Community Outreach	Х		Х	
Level 2 - Some Traffic Flow Changes (40-59 points)				
Sign Turn Restrictions/Turn Movement Restrictions		X		
On-street Parking Strategies	Х			
Parking Lane Markings	X			
Textured Pavement	X			
Rumble Strip	X			
Rapid Rectangular Flashing Beacon			х	Motion Activated - Less intrusive
Left-turn Improvements			Х	
Level 3 - Significant Traffic Flow Changes (60-79 points)				
Curb Extensions	Х		Х	Intersections
Mid-Block Chokers	X		Х	Segments
Center Island Narrowing/Pedestrian Refuge			Х	
Stop Signage		х		If stop sign warrant is met
Traffic Circle	Х	Х		
Roundabout	Х	Х		
Realigned Intersection	Х	Х		
Speed Hump/Speed Cushion	Х	Х		Segments
Speed Table/Raised intersections	Х	Х		Intersections
Level 4 - Street Closures (80-100 points)				
Median & Partial Medians	Х			
Median Barrier		Х		Cut-through traffic
Forced Turn Island		Х		Cut-through traffic
One-Way to Two-Way Street Conversion		Х		
Two-Way to One-Way Street Conversion		Х		





	Approximate Cost			
Available Traffic Calming Measures	Low (<\$6k)	Medium (\$6k-\$15k)	High (>\$15k)	Notes on Implementation
Level 1 - No Traffic Flow Changes (25-40	points)			
Targeted Speed Enforcement	Х	Х		This can involve 1-2 officers posted at select locations with high rates of speeding. Generally this is best if there are certain time frames where speeding is occurring.
Speed Radar Trailer	Х			A temporary movable option for the Village to discourage speeding. The village can use the speed data collected by the trailer to determine the effectiveness of the measure.
Speed Feedback Sign	Х			A more permanent version of the speed trailer. If success is seen with the usage of the speed trailer along a route then this may be justified. Can be set up to give tickets automatically combining the effectiveness of targeted speed enforcement and a speed radar trailer.
Centerline/Edgeline Markings	х			Centerline and edgeline markings can be used to clearly delineate where a vehicle should be driving. They can be used alongside on-street parking to visually narrow the lane a driver has access to. This is effective in areas where drivers consistently use parking lanes as through lanes.
Updated Signage (New/Larger/Refreshed)	Х			In areas with old faded signs a simple signing upgrade may be enough to get drivers attention who may not have seen the older signs.
Speed Limit Signage	Х			Used in cases where speeding is an issue and no speed limit sign is existing.
Flashing Signs	X			An improvement for locations with existing signs that are being ignored. Motion activated to cause as little disturbance for residents as possible.
Pavement Legend	Х			Should be used sparingly to help combat inattentional blindness. Best used in locations where off-street signage is already present and being ignored. Using consistently at locations like schools will create a consistent roadway and make It clear to drivers to be cautious in those areas.
High Visibility Crosswalks	X			Any location with pedestrian accidents or high volumes of pedestrian crossings is a good candidate. Can be used with mid-block crossing to make it more visible to drivers not expecting to see a crosswalk away from an intersection.
Educations Community Involvement	Х	Х		Community education programs will passively improve the roadway by teaching drivers, bicyclists, and pedestrians how best to use the road together.

	Approximate Cost		Cost		
Available Traffic Calming Measures	Low (<\$6k)	Medium (\$6k-\$15k)	High (>\$15k)	Notes on Implementation	
Level 2 - Some Traffic Flow Changes (41	-60 points)				
Sign Turn Restrictions/Turn Movement Restrictions	Х			Restricting who can turn onto or off of routes is an effective way of reducing traffic volumes. Whenever this improvement is implemented the Village should consider whether nearby roadways can handle the increase traffic volumes on neighboring roads. Restricting turns can be used strategically to funnel drivers away from pedestrian areas and towards larger roads capable of handling increased volumes.	
On-street Parking Strategies	Х	х		Adding parking along a residential route can create a visually narrower lane which forces drivers to slow down. One concern is that if parking is added along a route without any demand for street parking the lane may be left open for drivers to use it as a second through lane or use the road as if it was one wide lane.	
Parking Lane Markings	Х			This can be implemented along street parking to delineate the parking zone from the through lane. On routes with unused street parking this may be effective.	
Textured Pavement	Х	X		Textured pavement indicates to drivers to pay more attention to the roadway. Best used with pavement legends or near crosswalks. Helps combat inattentional blindness in drivers.	
Rumble Strip	Х			Used along rural routes as a physical indication a driver is leaving the travel lane.	
Rapid Rectangular Flashing Beacon	Х			Rapid flashing beacons activated by a push button to help pedestrians cross. This is best used at busy roadways with high rates of pedestrian crossings. Also applicable in locations with pedestrian related accidents or locations with mid-block crossings.	
Left-turn Improvements	Х	X		A newer traffic calming technique being used in Chicago at signalized intersections with high rates of left turners and pedestrians. Forces drivers to take a wider left turn giving all parties at the intersection more time to react to the turn.	

	Approximate Cost		Cost		
Available Traffic Calming Measures	Low (<\$6k)	Medium (\$6k-\$15k)	High (>\$15k)	Notes on Implementation	
Level 3 - Significant Traffic Flow Change	s (61-80 po	ints)			
Curb Extensions		Х	Х	Best used at locations with on-street parking where pedestrians have difficulty being seen at intersections. This improvement prevents cars from using the parking lane as a through lane.	
Mid-Block Chokers		Х	Х	Similar to curb extensions, but used mid-block. Best for mid-block crossings to get pedestrians within drivers line of sight.	
Center Island Narrowing/Pedestrian Refuge		Х	Х	Best suited to larger roads with high volumes. Gives pedestrians the opportunity to cross in two stages and puts a physical hazard near drivers through lanes causing slowdown.	
Stop/Yield Signage	Х			Should only be used when justified by a stop sign warrant. Creates an additional stopping point along a corridor and may make the road less appealing to traffic coming from primary routes. Can also increase pedestrian safety by making a safe crossing point along a route without any other stop locations.	
Traffic Circle		X	X	Can be added to locations to help reduce the number of angle or turning collisions. Forces drivers to slow down without any other traffic control device. Due to the obstruction drivers are forced to take a longer left turn route to negotiate the intersection giving oncoming traffic more time to react.	
Roundabout			х	Can be used in a variety of locations. Generally best when applied to high volume stop control locations or signalized intersections. The improvement requires a larger footprint than a normal intersection to accommodate the circular movement of vehicles.	
Realigned Intersection		X		Best used on T-intersections on residential roads. By placing an obstruction in the path of vehicles that would be continuing straight drivers are forced to slow down to evaluate the area around them.	
Speed Hump/Speed Cushion	х			Used on low volume segments to regulate speed. Spacing should follow FHWA criteria. Should only be used along residential roads experiencing high volumes of through traffic not associated with residents along the road.	
Speed Table/Raised intersections		Х	Х	Best used at intersections with high pedestrian volumes or mid-block crossings. The longer the flat portion of the speed table the gentler the effect on a vehicle will be.	

	Approximate Cost		Cost					
Available Traffic Calming Measures	Low (<\$6k)	Medium (\$6k-\$15k)	High (>\$15k)	Notes on Implementation				
Level 4 - Street Closures (81-100 points)	Level 4 - Street Closures (81-100 points)							
Median & Partial Medians		Х		Can be used to narrow certain turn movements at intersections. Causes drivers to navigate the intersections at a slower rate. Best used in conjunction with pedestrian islands at locations with large numbers of pedestrian crossings.				
Median Barrier		Х	X	Used to prevent cars on the minor road from going straight through an intersection. Results in a forced right turn for the minor road and makes left turns from the major road. Used to prevent cut-through traffic.				
Forced Turn Island		Х		Physically blocks drivers from performing other turn movement (generally left turns). Should only be used in areas where drivers have disregarded signs. Can be more dangerous if the illegal turn movement is attempted.				
One-Way to Two-Way Street Conversion		X		This can be implemented along wide one-way streets with speeding issues. Introducing a second direction of traffic and narrower lanes results in a speed reduction. The roadway may become more hazardous for pedestrians who are now looking for traffic in both directions.				
Two-Way to One-Way Street Conversion		Х	X	An extreme measure that creates a safer street for pedestrians reducing the number of directions cars can approach from, but drivers tend to drive faster on one-way streets. The potential to introduce new speed problems should be considered prior to conversion. Access for safety vehicles and convenient access for residents is another potential concern.				





Summary of Improvements w/ Pictures

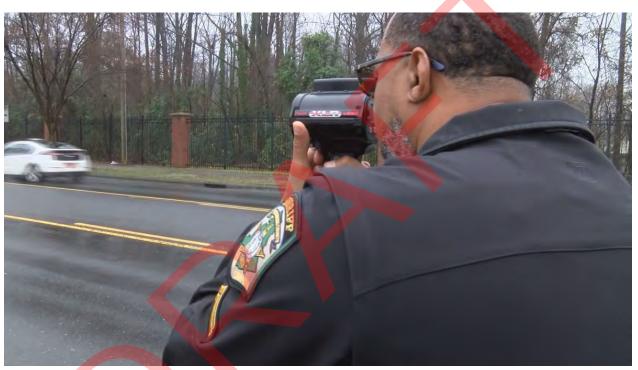


Level 1

Targeted Speed Enforcement

Overview

Targeted speed enforcement is best used in areas with persistent speed problems during certain parts of the day i.e. morning or evening rush hour, or in areas where speeding has already been identified as an issue as a first measure to see if targeted enforcement could mitigate the problem without more costly improvements. In areas where speeding is likely to be a recurring issue it is not recommended to use this traffic calming measure on its own.





Speed Radar Trailer

Overview

Speed monitoring trailers - sign boards on trailers that display the speed of passing vehicles - are used by police departments as educational tools that can enhance enforcement efforts directed at speed compliance. Speed radar trailers are best used in residential areas and may be used in conjunction with Neighborhood Speed Watch or other neighborhood safety education programs. They can help raise residents' awareness of how they themselves are often those speeding, not just "outsiders." Speed trailers are not substitutes for permanent actions such as traffic calming treatments to address neighborhood speeding issues.

Speed trailers can be used at several locations and should have occasional police monitoring and enforcement to maintain driver respect.





Speed Feedback Sign

Overview

Where a speed radar trailer is more suitable for temporary enforcement, data collection, and community engagement purposes, a speed feedback sign is more appropriate for addressing persistent speeding issues in specific areas and promoting ongoing speed limit compliance. The choice between the two depends on the specific goals and conditions of the location where they will be deployed. To maintain driver respect for the sign it is necessary to periodically place police enforcement in the area.

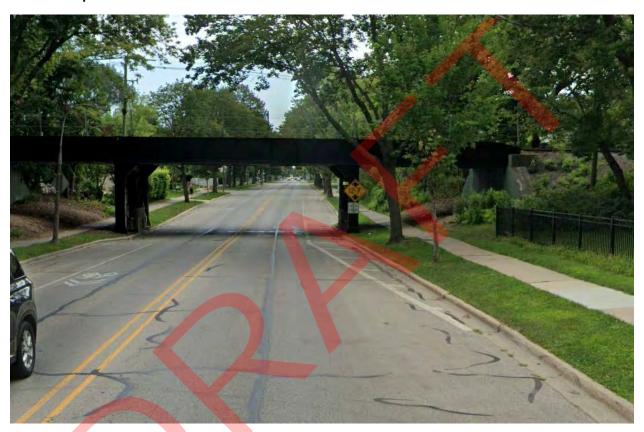




Centerline/Edgeline Markings

Overview

Centerline/Edgeline markings help to direct drivers to follow the path of the road. Striping the centerline of the road helps to reduce head on and sideswipe same direction collisions by keeping vehicles from drifting into oncoming traffic. Edgelines define the edge of the road and help to prevent run-off road crashes. Edgelines can also be used to visually narrow a road and affect driver behavior.





Updated Signage (New/Larger/Refreshed)

Overview

Locations where visibility of signs may be a concern or locations with existing faded signs should consider updating signs. Either replacing old, faded signs with new retro-reflective signs, installing larger signs, or installing new signs (when applicable) creates a safer roadway by being more visible to drivers.

Consistent use of signs throughout the Village creates a predictable roadway for drivers – all new sign installations should conform with MUTCD requirements.





Speed Limit Signage

Overview

The purpose of speed limit signs is to maintain compliance and make the speed limits enforceable. These signs should be located where there are noticeable changes in the roadside development.

In some cases placing a speed limit sign is enough to remind drivers the speed is reduced or lower than the road the driver may have come from. Adequate signing is the first step in making drivers more aware of the speed they are traveling.





Flashing Signs

Overview

This treatment can be applied on regulatory and warning signs. The improvement involves installing signs that contain flashing LED's around the outline of the sign. This helps to grab the attention of the driver and they can be seen from a greater distance.

Can be implemented at locations where sign visibility is a concern or where drivers are not obeying existing signs. All new signs should conform with MUTCD criteria.





Pavement Legend

Overview

A pavement legend refers to the various symbols, markings, and notations that are painted or applied onto the pavement or roadways to convey specific instructions, information, or warnings to drivers, pedestrians, and other road users.

A Pavement Legend is generally used in conjunction with other traffic calming measures and appropriate signage. In the provided example a speed limit legend is provided to reinforce the existing speed limit sign (not pictured). Drivers are more likely to follow the speed seeing it in a unique place, or slow down to assess the area and potential reasoning for the pavement marking.





High Visibility Crosswalks

Overview

High-visibility crosswalks use patterns (i.e., bar pairs, continental, ladder) that are visible to both the driver and pedestrian from farther away compared to traditional transverse line crosswalks. They should be considered at all midblock pedestrian crossings and uncontrolled intersections. High pedestrian areas such as schools and parks should consider installing crosswalks at common mid-block crossing locations

High visibility crosswalks are best used with enhanced signing ("Stop here for pedestrians" signs 20'-50' in advance of a marked crosswalk or pedestrian/school crossing signs at the crosswalk). Drivers will generally drive slower when there is the possibility of pedestrians crossing.



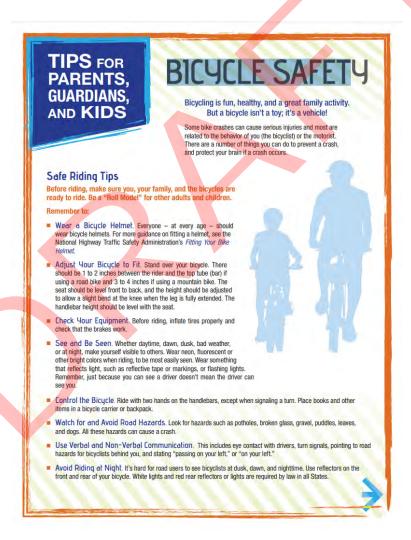


Education/Community Involvement

Overview

Increasing resident knowledge about plans for the road network and how traffic calming measures are meant to operate increases the chances of success. Oftentimes residents are unknowingly guilty of behaviors that amplify the roadway behaviors they don't want to see in the Village.

Teaching drivers, pedestrians, and cyclists how to best navigate multi-modal roads in the Village will create a safer road system for all users. Road features like traffic circles may be completely new to some drivers/residents and proactive education campaigns using flyers and Village information meetings can prevent drivers from being surprised and panicking when faced with a new road feature. This also applies to older drivers who may not know what rules of the road have changed since their driver's education class.





Level 2

Sign Turn Restrictions/Turn Movement Restrictions

Overview

Turning movement restrictions serve as an access management strategy to enhance the safety of stop-controlled intersections and driveways. By restricting specific turn movements, the number of turning conflict points at intersections is reduced, which lowers the risk of crashes.

This improvement is specifically intended to reduce cut-through traffic or traffic from specific roads from entering smaller routes. Restricting a turning movement will impact the entire road system as drivers who weren't cutting- though find new paths to get to their destinations.



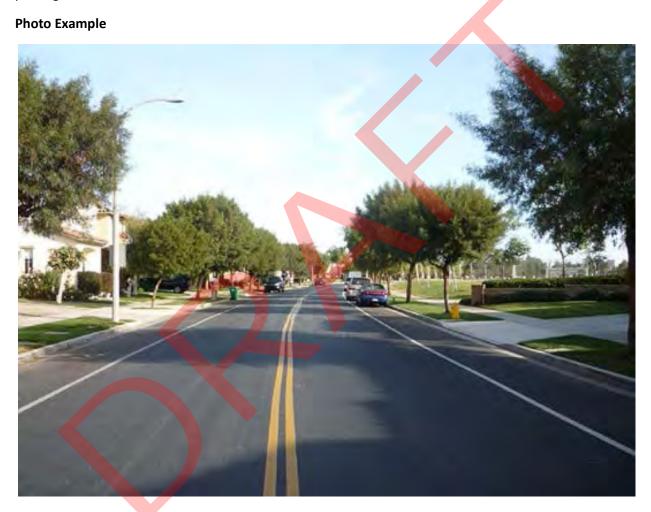


On-street Parking Strategies

Overview

On-street parking provides road uses access to locations along a street, increases friction between vehicles parked along the street and drivers which aids in speed reductions, and provides a barrier between moving traffic and the sidewalk edge. This can create an increase in pedestrians using the roadway.

Parallel and angle are two types of on street parking that have different operational effects. On street parking can be on one or both sides of the road.



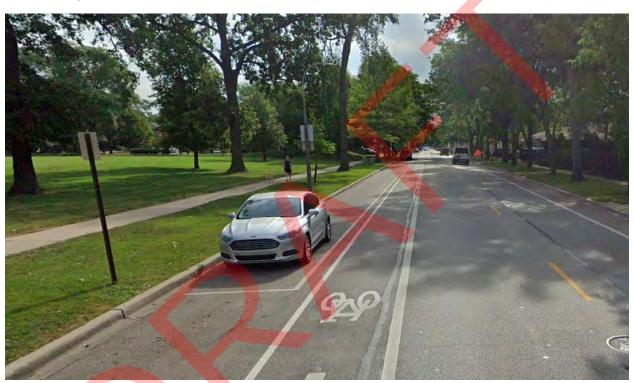


Parking Lane Markings

Overview

Parking lane markings on urban roads are designed to optimize parking efficiency and prevent encroachment on critical areas such as fire hydrant zones, bus stops, loading/unloading zones, and other parking locations that are undesirable.

This can be used in conjunction with on-street parking strategies to designate the locations drivers should use when parking.





Textured Pavement

Overview

A textured surface such as brick or pavers may be used to emphasize pedestrian crossing movement. Substituting this for the normal roadway surface material may also help to impress upon motorists that lower speeds are intended.





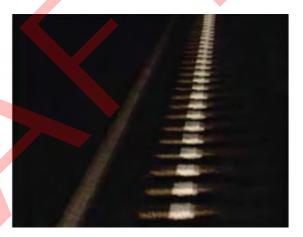
Rumble Strip

Overview

Rumble strips prove effective in reducing roadway departure crashes. Rumble strips create both noise and vibration, warning road users when they veer off the road. When they are coated with retroreflective material, they are called "rumble stripes," which enhances the pavement edge's visibility at night and during inclement weather conditions. To reduce head-on collisions and opposite direction sideswipe, center line rumble strips are often used. They warn vehicle users whose vehicles are crossing the center lines of roads.

Transverse rumble strips are placed in the travel lane perpendicular to the direction of travel. Transverse rumble strips are used to notify drivers to slow down, come to a stop, or anticipate other upcoming changes that might catch an inattentive driver off guard. Locations where they are most often used are on approaches to intersections, toll plazas, horizontal curves, and work zones.







Rapid Rectangular Flashing Beacon

Overview

Rapid Rectangular Flashing Beacons (RRFBs) are pedestrian-actuated enhancements designed to improve safety at uncontrolled, marked crosswalks. The device consists of two rectangular-shaped yellow indications, featuring LED-array-based light sources that flash with a high frequency when activated. When there is a high number of traffic lanes, this can create many challenges for pedestrians crossing at unsignalized locations. RRFBs prove to enhance visibility at a marked crosswalk.

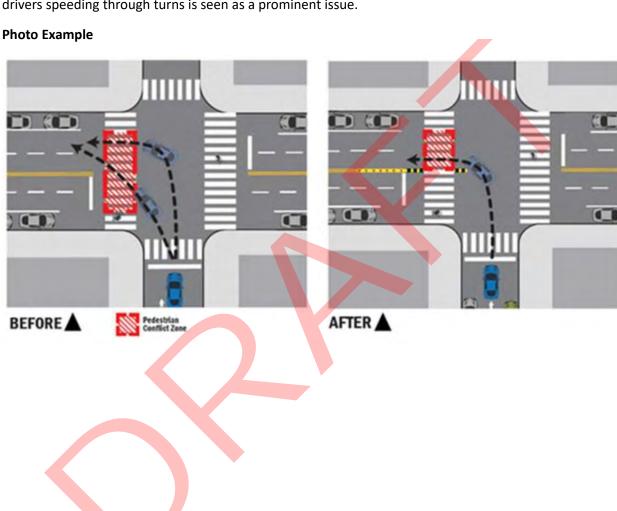




Left-turn Improvements

Overview

Left turn improvements are a more recent improvement type that had their pilot program in Chicago in 2019. To prevent drivers from taking a diagonal path across crosswalks rubber speed bumps, vertical posts, and hardened centerlines are installed along the centerline at intersections that encourage drivers to take turns at safer speeds. This is best used at locations with pedestrian crashes or areas where drivers speeding through turns is seen as a prominent issue.





Level 3

Curb Extensions

Overview

Curb extensions, also referred to as bulb-outs or neckdowns, involve extending the sidewalk or curb line into the parking lane, initially narrowing the street width. Curb extensions play a vital role in improving pedestrian crossings by reducing the distance pedestrians need to traverse, improving visibility, and minimizing the time pedestrians spend in the street. When placed at an intersection, curb extensions prove to prevent motorists from parking in or too close to a crosswalk or from blocking a curb ramp. Vehicles that are parked at corners are a threat to pedestrian safety since they block sight lines, hide pedestrian visibility, and can create a challenge for emergency vehicles when turning. Curb extensions prove to reduce turning speeds at intersections. Curb extensions are only suitable in areas where there is an on-street parking lane and it is essential that they do not extend into travel lanes, bicycle lanes, or shoulders.

This improvement is also suitable for areas where drivers may attempt to use the parking lane as a second through lane.





Mid-Block Chokers

Overview

Mid-Block chokers are curb extensions designed to narrow a street by expanding the sidewalks or planting strips, creating a pinch point along the roadway. This can be achieved by bringing in both curbs, or by widening one side, especially at midblock locations. Chockers can be used at intersections, creating a gateway effect when entering a street. They can also yield a striking impact as they transform a two-lane street into a single lane at the choker point, making motorists yield to each other.

Creating a visually and physically narrower roadway will cause drivers to slow down to assess the new cross section. Drivers will generally lower their speed when the travelled lane becomes narrower.





Center Island Narrowing/Pedestrian Refuge

Overview

A median island narrowing refers to a raised island positioned along the centerline of a street which allows the travel lanes to narrow at that specific point. The visual effect of these narrowed lanes encourages a motorist to slow down. This specific type of median separates opposing vehicle travel lanes, creates opportunities for landscaping or visual enhancements, and offers a safe place for pedestrians to cross a multi-lane street. These features that a median island possesses are designed to enhance and ensure a safer traffic flow.





Stop Signage

Overview

Stop signs are an effective form of traffic calming when used properly. Forcing vehicles to fully stop while navigating a corridor limits the maximum speed they can travel due to acceleration and deceleration times. Since stop signs are a form of traffic control they should not be used unless a stop sign warrant is met. Overuse of traffic control may result in drivers no longer respecting the signage and either 'rolling' stop signs or not stopping at all.

Modifier plaques should be placed below stop signs to give drivers additional information about the intersection such as "Cross Traffic does Not Stop" or "ALL-WAY".





Traffic Circle

Overview

Traffic circles are used at unsignalized intersections, creating a circular movement within traffic. While they appear similar to roundabouts they are different in that they create a circular traffic movement at a much smaller scale and roundabouts utilize yield signs on all legs. The design allows road users to reduce speed when crossing an intersection. A traffic circle can either have stop signs or yield signs. The primary purpose of a traffic circle is a reduction of angle and turning collisions as well as reducing speeds at the intersection. The design of one can be a painted area but it is recommended for it to be a raised curb and landscaped.





Roundabout

Overview

The modern roundabout is a circular intersection designed to direct safe movement of traffic. Its features include channelized, curved approaches that slow down vehicles, entry yield control that grants right-of-way to circulating traffic, and counterclockwise flow around a central island, which minimizes conflict points. The design results in lower speeds and fewer conflicts, creating an environment where injuries or fatalities are significantly reduced.

Roundabouts stand out as a safer and more efficient type of intersection, maintaining traffic flow. They can also reduce delays and queues compared to other intersection options. The lower vehicle speeds and reduced potential for conflicts make roundabouts a more suitable environment for walking and bicycling.

Roundabouts can replace signals, two-way stop controls, and all-way stop controls. They are often used for managing speed and transitioning traffic from high speed to low-speed environments.

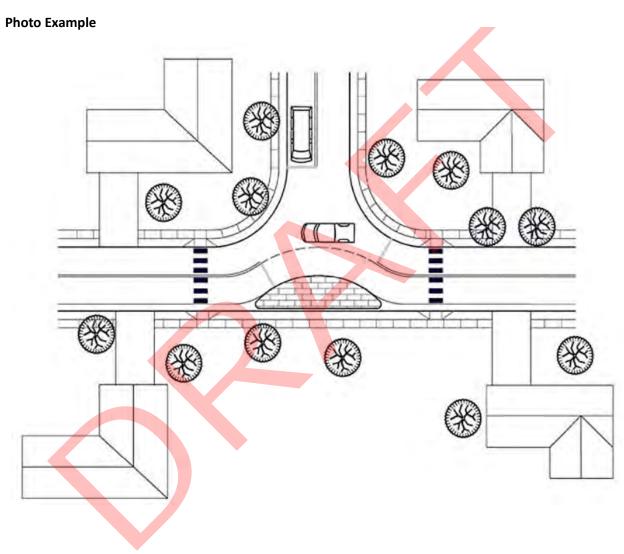




Realigned Intersection

Overview

A realigned intersection involves reconfiguring an intersection with perpendicular angles, transforming it into one with skewed approaches or travel paths. Realigned intersections help to deter or completely remove fast vehicle movements through the intersection by introducing new physical features. The typical approach is to convert a T-intersection with straight approaches into curving streets meeting at right angles. This removes all straight paths through the intersection, creating a slower traffic flow.





Speed Hump/Speed Cushion

Overview

A speed hump is a raised elongated mound on the pavement, positioned across the travel way at a right angle to the traffic flow. When road users drive over the speed limit in residential areas, a speed hump can help reduce speeds by creating discomfort for the user. Speed humps cause drivers to move at slower speeds both before and after passing over the speed hump. A speed cushion is two or more raised areas placed across a road. There are cutouts positioned that allow the driver to travel over a portion of the raised pavement.





Speed Table/Raised Intersections

Overview

A speed table is a raised area on top of a road to physically limit the speed of a vehicle. It can be installed away from intersections and consists of two ramps leading up to a raised section of road. Crosswalks may be installed on top of a speed table.

A raised intersection is a flat, elevated area that spans the entire intersection with ramps on all approaches. It functions as a speed table covering an entire intersection and crosswalks (if applicable). The objective of a raised intersection is to reduce vehicle speed and to enhance pedestrian safety. They are commonly installed at signal-controlled or all-way stop-controlled intersections with high numbers of street-crossing pedestrians.





Level 4

Median & Partial Medians

Overview

A center median prevents left turns while creating a narrower lane for drivers. A partial median serves the same purpose but may have gaps where drivers can turn left either from the through-lane or a dedicated turn lane. A median can help separate traffic to prevent head on collisions and depending on width can be used by drivers as a refuge from oncoming traffic while turning left.

Medians operate similar to a median island or pedestrian refuge listed above but tend to extend further along a corridor. Medians may be used as pedestrian refuges at crossings if width allows.

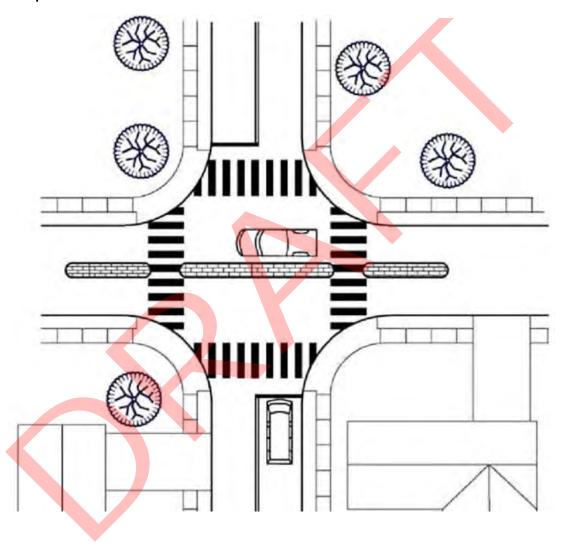




Median Barrier

Overview

A median barrier, a raised island, is placed throughout an intersection, near the centerline of a road which prevents road users from moving straight through the intersection on the side street. Median barriers prevent side street traffic from crossing the main roadway, prevent left turn movements, but allow right turns to and from the main street.

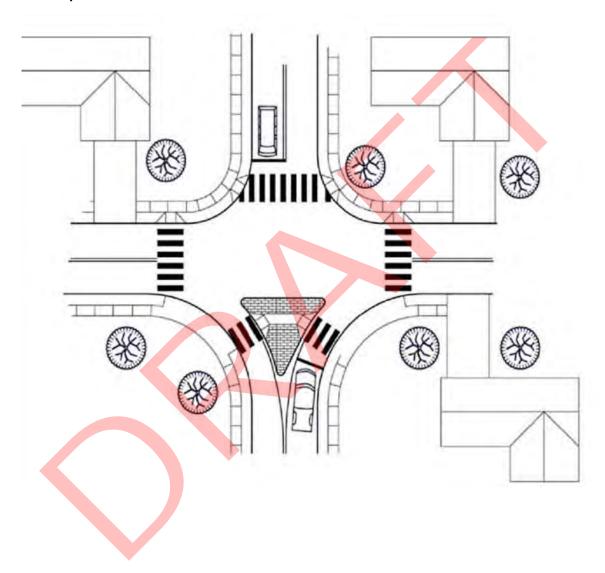




Forced Turn Island

Overview

A forced turn island is placed at the mouth of an intersection, usually seen triangular. It restricts specific movements on approaches to an intersection. It forces a road user to turn right from the side street and blocks any left turn/through movements.





One-Way to Two-Way Street Conversion

Overview

Converting a one-way street back to two-way will allow better local access and slow traffic. Two-way streets tend to be slower due to driver "friction", especially on residential streets without a marked center line. This improvement is best for streets where speeding is a common issue and there are complaints from drivers about the distance to access certain properties or businesses.

This is also a good solution to roads that are far too wide for a single lane of traffic in one direction. A narrower lane controls driver speed and raises driver awareness while on the road. The example below shows how a 4-lane cross section with parking was converted into a 2-lane cross section with a left turn lane, bike facilities, and parking.





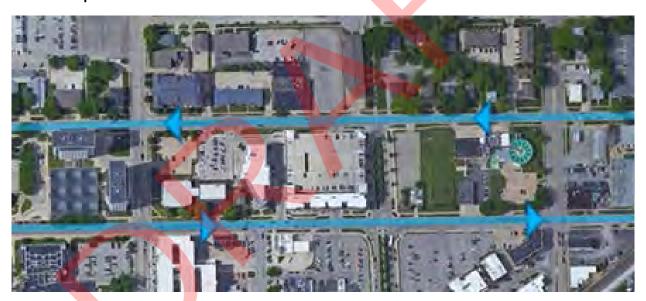
Two-Way to One-Way Street Conversion

Overview

Converting a two-way road to a one-way streets has a number of benefits, but comes with a number of challenges to the road network that need to be considered prior to any action.

One-way streets can simplify crossings for pedestrians, who must look for traffic in only one direction. While studies have shown that conversion of two-way streets to one-way generally reduces pedestrian crashes, one-way streets tend to have higher speeds which creates new problems. If a street is converted to one-way, it should be evaluated to see if additional changes should be made, especially if the street or lanes are overly wide. Also, traffic circulation in the broader area must be carefully considered before conversion to one-way streets.

One-way streets can be implemented as a system where neighboring streets are both converted to one-ways in opposite directions. This is called a one-way couplet and helps to resolve some of the volume issues caused by removing a direction of traffic from one road. One-way couplets operate best in "pairs", separated by a block to no more than one-quarter mile.







APPENDIX B: VILLAGE-WIDE SURVEY

01. Survey Response Graphs and Data





Survey Response Graphs and Data



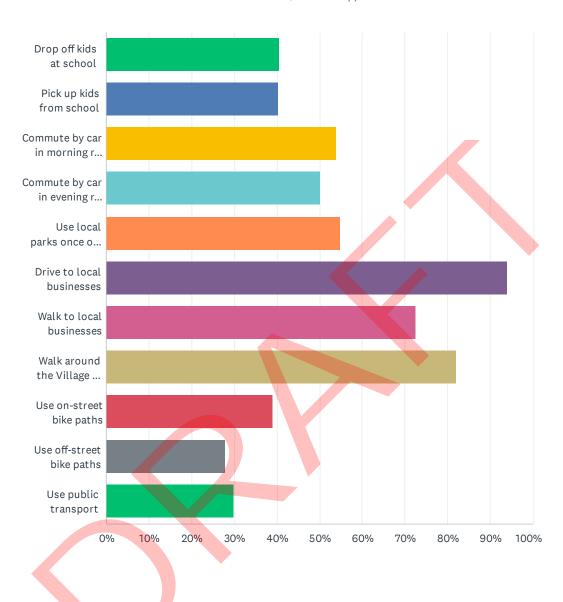
Q1 Please type your home address or block number and street name. This will be used to accurately locate areas of concern for future study.

Answered: 1,032 Skipped: 0



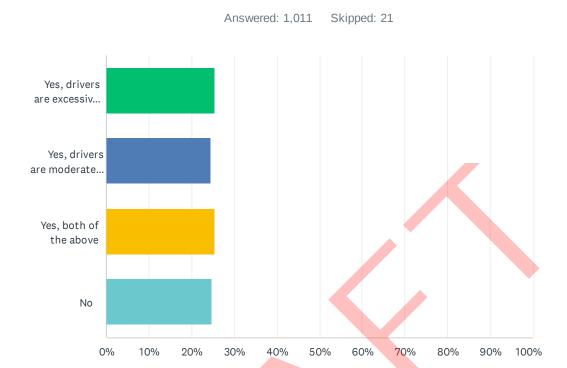
Q2 Select all that apply to your household:





ANSWER CHOICES	RESPONSES	
Drop off kids at school	40.49%	413
Pick up kids from school	40.29%	411
Commute by car in morning rush hour	53.92%	550
Commute by car in evening rush hour	50.10%	511
Use local parks once or more per week	54.90%	560
Drive to local businesses	94.02%	959
Walk to local businesses	72.55%	740
Walk around the Village for pleasure	82.06%	837
Use on-street bike paths	38.92%	397
Use off-street bike paths	27.94%	285
Use public transport	29.80%	304
Total Respondents: 1,020		

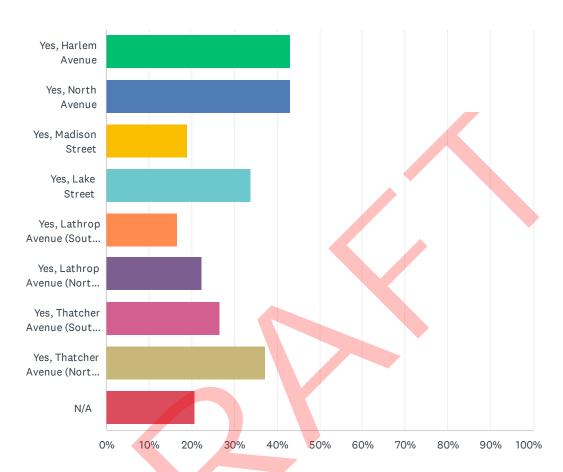
Q3 Do you feel speed is an issue on the street you live on?



ANSWER CHOICES	RESPONSES	
Yes, drivers are excessively speeding	25.32%	256
Yes, drivers are moderately speeding	24.53%	248
Yes, both of the above	25.32%	256
No	24.83%	251
TOTAL		1,011

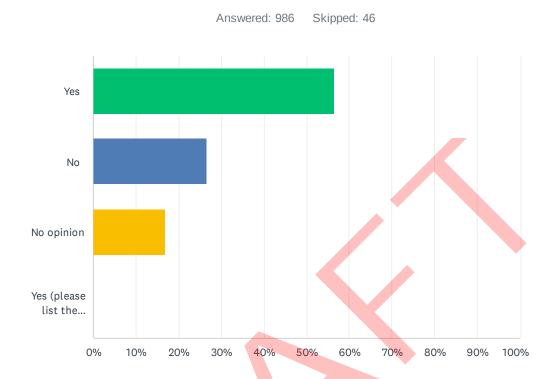
Q4 Do you feel speed is an issue on any of the major roadways within the Village? (Select all that apply)





ANSWER CHOICES	RESPONSES	
Yes, Harlem Avenue	43.04%	414
Yes, North Avenue	43.14%	415
Yes, Madison Street	19.02%	183
Yes, Lake Street	33.89%	326
Yes, Lathrop Avenue (South of the railroad tracks)	16.63%	160
Yes, Lathrop Avenue (North of the railroad tracks)	22.35%	215
Yes, Thatcher Avenue (South of the railroad tracks)	26.61%	256
Yes, Thatcher Avenue (North of the railroad tracks)	37.21%	358
N/A	20.69%	199
Total Respondents: 962		

Q5 On your street, is through traffic regularly not stopping or "rolling" through stop signs?



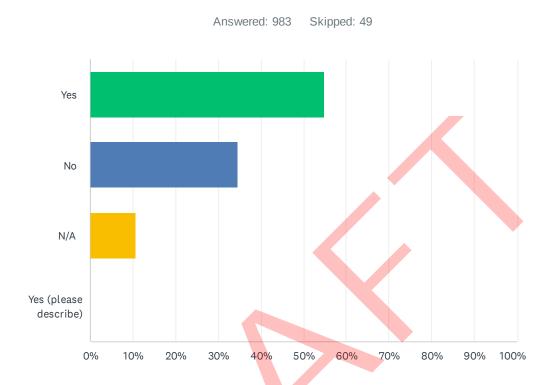
ANSWER CHOICES	RESPONSES	
Yes	56.49%	557
No	26.67%	263
No opinion	16.84%	166
Yes (please list the observed driver behavior and intersection of occurrence)		0
TOTAL		986

Q6 If applicable please list observed driver behavior and intersection of occurrence below.

Answered: 539 Skipped: 493



Q7 Do you feel drivers on major roadways (Madison Street, Harlem Avenue, North Avenue, or Thatcher) frequently use your street to avoid traffic?



ANSWER CHOICES	RESPONSES	
Yes	54.83%	539
No	34.49%	339
N/A	10.68%	105
Yes (please describe)	0.00%	0
TOTAL		983

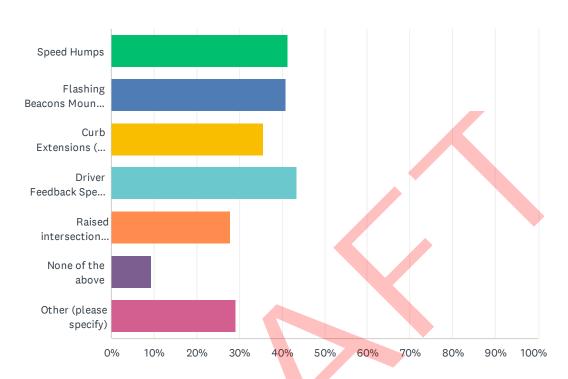
Q8 If you answered yes to the above please describe driver behavior.

Answered: 482 Skipped: 550



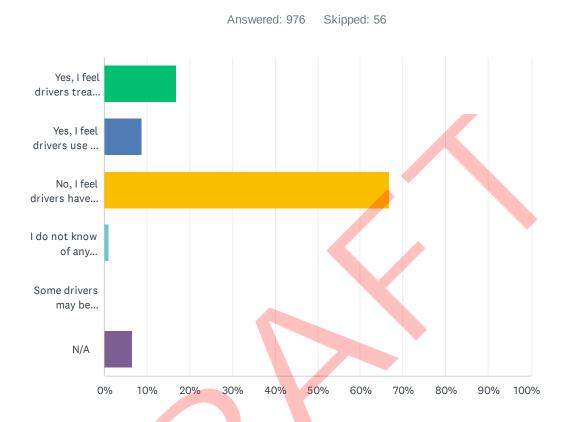
Q9 What (if any) traffic calming measures would you like to see used more within the Village? Select all that apply.





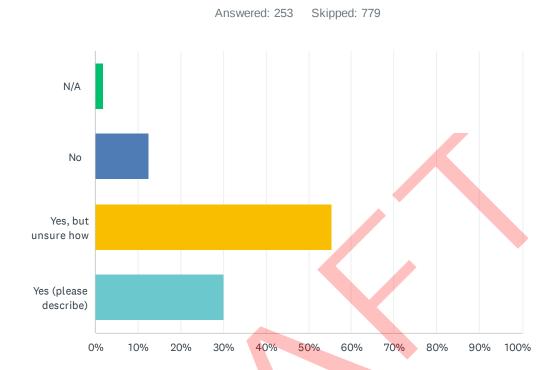
ANSWER CHOICES	RESPONSES	
Speed Humps	41.36%	402
Flashing Beacons Mounted on Sign Posts	40.84%	397
Curb Extensions (As shown here: Gateway Bumpouts)	35.70%	347
Driver Feedback Speed Sign (Digital Speed Limit Sign)	43.42%	422
Raised intersection (As shown here: Raised Intersection Sample)	27.88%	271
None of the above	9.47%	92
Other (please specify)	29.12%	283
Total Respondents: 972		

Q10 Several Village roads near schools are marked as one-way roads during school hours. Do you feel there is confusion around when two-way traffic is allowed on these roads?



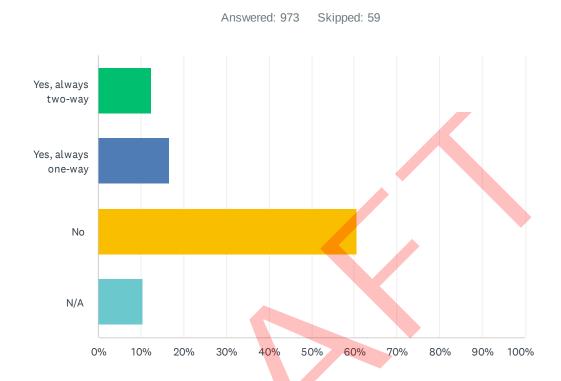
ANSWER CHOICES		RESPONSES	
Yes, I feel drivers treat the temporary one-way locations as if they were permanent one-ways.	16.80%	164	
Yes, I feel drivers use the temporary one-way locations as two-way streets at all times.	8.81%	86	
No, I feel drivers have adapted to the temporary one-way locations and use them as intended.	66.70%	651	
I do not know of any temporary one-way streets in the Village.	1.02%	10	
Some drivers may be confused, but I have not encountered them and I use the temporary one-ways as posted.	0.00%	0	
N/A	6.66%	65	
TOTAL		976	

Q11 At temporary one-way locations do you feel signage could be improved to make it more clear when the roads are operating as one-ways



ANSWER CHOICES		RESPONSES	
N/A		1.98%	5
No		12.65%	32
Yes, but unsure how		55.34%	140
Yes (please describe)		30.04%	76
TOTAL			253

Q12 Do you feel temporary one-ways should be updated to be permanent one-ways or always allow two directions of traffic to prevent driver confusion?



ANSWER CHOICES	RESPONSES
Yes, always two-way	12.44% 121
Yes, always one-way	16.55% 161
No	60.64% 590
N/A	10.38% 101
TOTAL	973

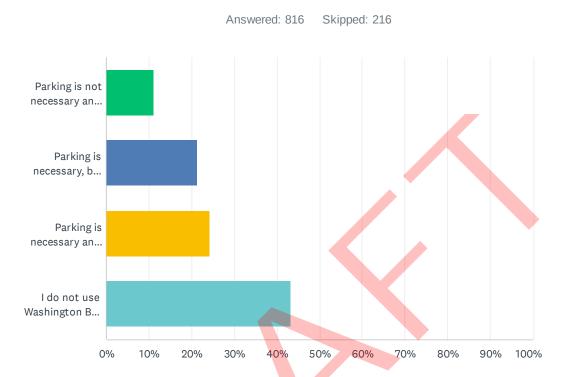
Q13 How regularly do you use Washington Boulevard?





ANSWER CHOICES	RESPONSES	
I live on or near the street	18.56%	181
I don't live on/near the road, but I use the road almost daily	7.69%	75
I don't live on/near the road, but I use the road 1-2 times per week	24.92%	243
I don't live on/near the road, but I use the road 1-2 times per month	33.23%	324
I don't live on/nea <mark>r the</mark> road, and I never use Washington Boulevard	15.59%	152
N/A	0.00%	0
TOTAL		975

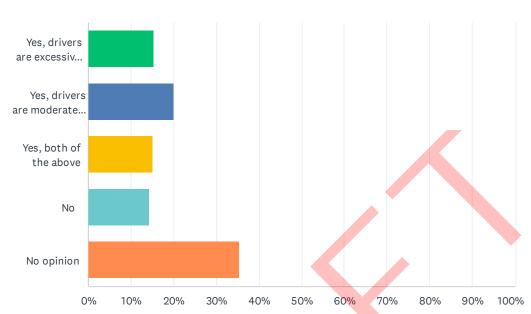
Q14 How do you feel about modifying street parking along Washington Boulevard to allow for traffic calming/bike accommodations to be implemented.



ANSWER CHOICES	RESPONS	SES
Parking is not necessary and should be removed on both sides of the road	11.15%	91
Parking is necessary, but due to abundance and limited use it can be removed on one side of the road.	21.32%	174
Parking is necessary and should remain on both sides of the road.	24.26%	198
I do not use Washington Blvd for parking and do not have input.	43.26%	353
TOTAL		816

Q15 Do you feel speed is an issue on Washington Boulevard?





ANSWER CHOICES	RESPONSES	
Yes, drivers are excessively speeding	15.28%	125
Yes, drivers are moderately speeding	20.05%	164
Yes, both of the above	15.04%	123
No	14.18%	116
No opinion	35.45%	290
TOTAL		818

Q16 Is traffic regularly not stopping or "rolling" through stop signs an issue on Washington Boulevard?



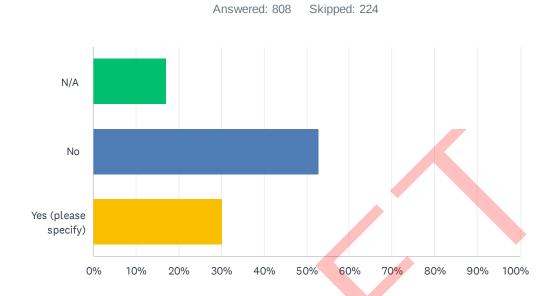
ANSWER CHOICES	RESPONSES
Yes	30.80% 251
No	11.04% 90
No opinion	58.16% 474
Yes (please list the observed driver behavior and intersection of occurrence)	0.00% 0
TOTAL	815

Q17 If you answered yes to the above please describe driver behavior and intersection of occurrence.

Answered: 204 Skipped: 828

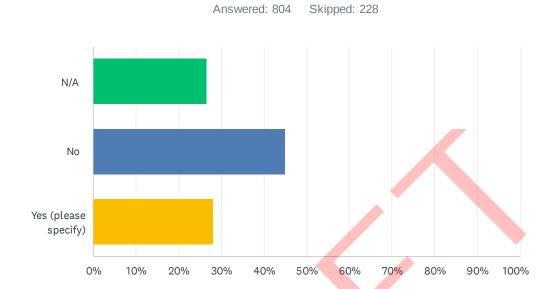


Q18 As a driver, do you feel you have a hard time seeing pedestrians and bicyclists? (If yes specify the intersection/area you experienced issues.)



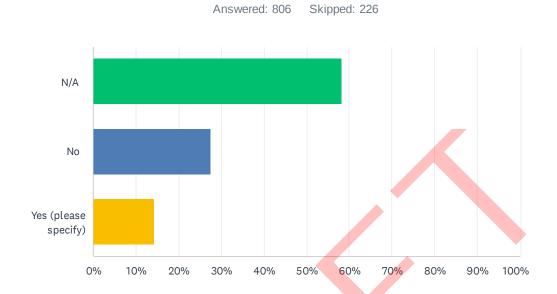
ANSWER CHOICES	RESPONSES	
N/A	16.96%	137
No	52.85%	427
Yes (please specify)	30.20%	244
TOTAL		808

Q19 As a pedestrian, do you feel you have a hard time seeing/being seen by drivers? (If yes specify the intersection/area you experienced issues.)



ANSWER CHOICES	RESPONSES	
N/A	26.74%	215
No	45.02%	362
Yes (please specify)	28.23%	227
TOTAL		804

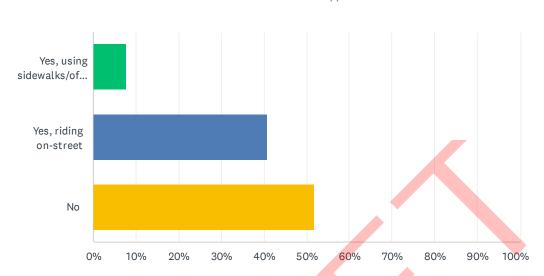
Q20 As a bicyclist, do you feel you have a hard time seeing/being seen by drivers? (If yes specify the intersection/area you experienced issues.)



ANSWER CHOICES	RESPONSES	
N/A	58.19%	469
No	27.42%	221
Yes (please specify)	14.39%	116
TOTAL		806

Q21 Do you regularly bike on Village roads?

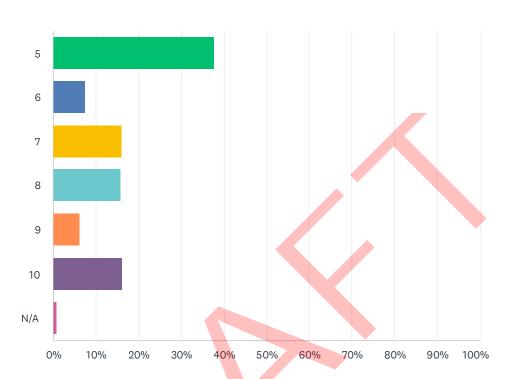




ANSWER CHOICES	RESPONSES	
Yes, using sidewalks/off-street paths	7.57%	73
Yes, riding on-street	40.66%	392
No	51.76%	499
TOTAL		964

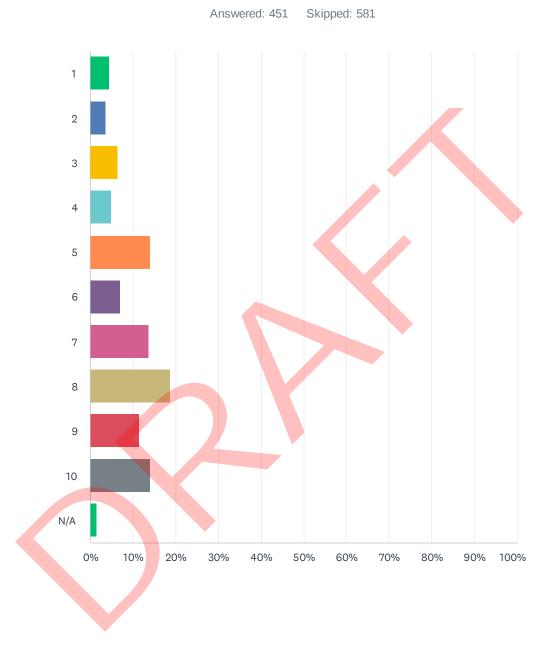
Q22 How comfortable do you feel using roads without marked bike facilities to get around the Village?





ANSWER CHOICES		RESPONSES	
5		37.64%	172
6		7.44%	34
7		15.97%	73
8		15.75%	72
9		6.13%	28
10		16.19%	74
N/A		0.88%	4
TOTAL			457

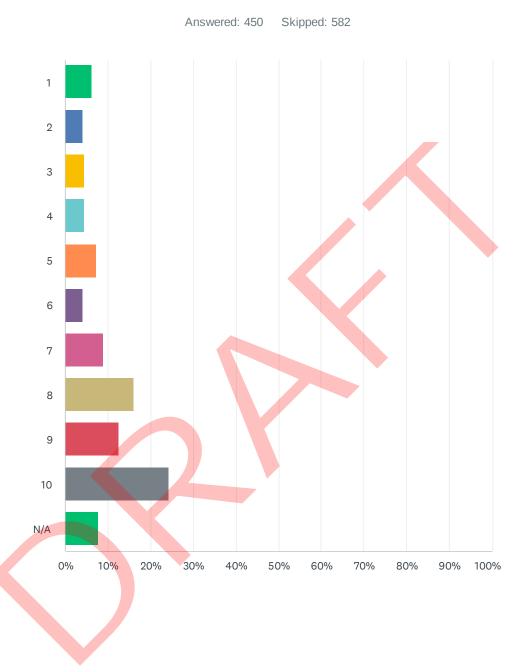
Q23 How comfortable do you feel using roads with marked bike facilities to get around the Village? (See attached picture; streets with a striped shared bike lane count as marked.)



ANSWER CHOICES	RESPONSES	
1	4.43%	20
2	3.55%	16
3	6.43%	29
4	4.88%	22
5	13.97%	63
6	7.10%	32
7	13.75%	62
8	18.85%	85
9	11.53%	52
10	13.97%	63
N/A	1.55%	7
TOTAL		451



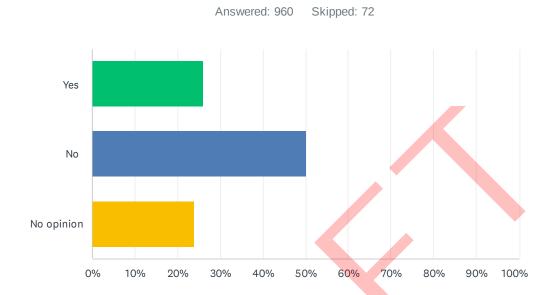
Q24 How comfortable do you feel using sidewalks/off-street paths to get around the Village?



ANSWER CHOICES	RESPONSES	
1	6.22%	28
2	4.00%	18
3	4.44%	20
4	4.44%	20
5	7.33%	33
6	4.00%	18
7	8.89%	40
8	16.00%	72
9	12.67%	57
10	24.22%	109
N/A	7.78%	35
TOTAL		450



Q25 Do you feel you have issues seeing oncoming traffic at any railroad underpasses? (Either when turning onto or off of the frontage roads on either side of the elevated railway)



ANSWER CHOICES	RESPONSES
Yes	25.94% 249
No	50.10% 481
No opinion	23.96% 230
TOTAL	960

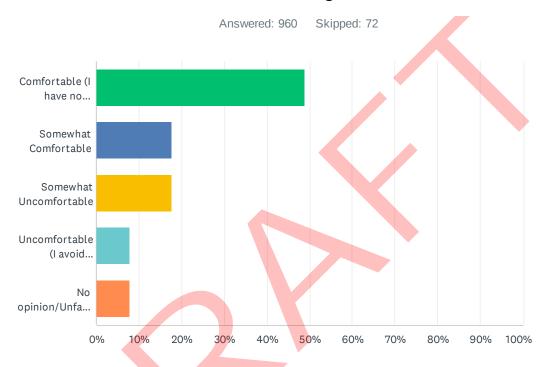
Q26 The north-south roads with tunnels underneath the rail road tracks are listed below. Please specify which intersection you experienced issues seeing oncoming traffic at.





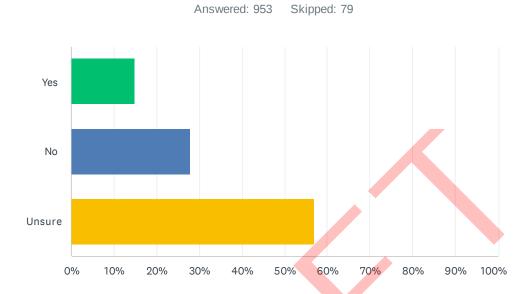
ANSWER CHOICES	RESPONSES	
Thatcher Avenue	53.20%	133
Keystone Avenue	48.00%	120
Franklin Avenue	53.20%	133
Ashland Avenue	52.40%	131
Lathrop Avenue	49.60%	124
Harlem Avenue	26.00%	65
Total Respondents: 250		

Q27 Thatcher Avenue north of Chicago Avenue has an imbalanced lane configuration with two southbound lanes and one northbound lane. Due to the unique lane configuration, the curving road, and speed issues reported in the past, the Village would like to get an idea of how safe drivers feel turning onto Thatcher Avenue from the side roads. Please rate your level of comfort turning onto Thatcher Avenue in the section between North Avenue and Chicago Avenue?



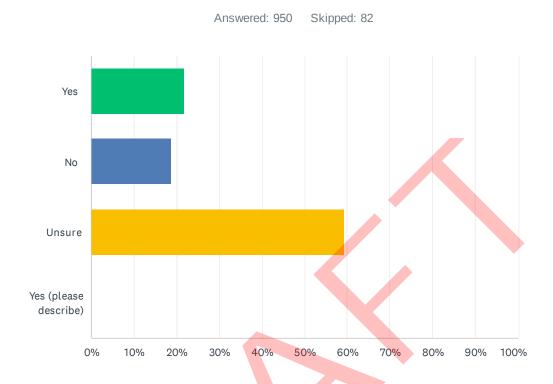
ANSWER CHOICES	RESPONSES	
Comfortable (I have no problems turning onto Thatcher)	48.85%	469
Somewhat Comfortable	17.71%	170
Somewhat Uncomfortable	17.60%	169
Uncomfortable (I avoid turning onto Thatcher between Chicago Ave and North Ave)	7.92%	76
No opinion/Unfamiliar with the area	7.92%	76
TOTAL		960

Q28 Do you feel that the recent changes in the northeast corner of the Village have had a positive impact on traffic patterns in the area?



ANSWER CHOICES	RESPONSES	
Yes	15.01%	143
No	28.02%	267
Unsure	56.98%	543
TOTAL		953

Q29 Do you feel that additional changes in the northeast corner of the Village are needed to address remaining issues?



ANSWER CHOICES	RESPONSES	
Yes	21.79%	207
No	18.84%	179
Unsure	59.37%	564
Yes (please describe)	0.00%	0
TOTAL		950

Q30 If you answered yes above please describe how the changes have impacted you and any further changes you would like to see.

Answered: 290 Skipped: 742



Q31 Do you have any feedback regarding Village roads not reflected in this survey?

Answered: 555 Skipped: 477







APPENDIX C: CAPACITY ANALYSIS

- 01. Volumes & Level of Service AM
- 02. Volumes & Level of Service PM
- 03. Alternative Volumes & Level of Service AM
- 04. Alternative Volumes & Level of Service PM





Volumes & Level of Service – AM



Intersection		
Intersection Delay, s/veh	15.6	
Intersection LOS	С	

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4î.			ર્ન	7		4			4	
Traffic Vol, veh/h	91	268	21	10	196	23	20	219	11	12	184	85
Future Vol, veh/h	91	268	21	10	196	23	20	219	11	12	184	85
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	97	285	22	11	209	24	21	233	12	13	196	90
Number of Lanes	0	2	0	0	1	1	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	2			2			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			2			2		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			2			2		
HCM Control Delay	14.9			15.1			16.1			16.7		
HCM LOS	В			C			C			C		

Lane	NBLn1	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	
Vol Left, %	8%	40%	0%	5%	0%	4%	
Vol Thru, %	88%	60%	86%	95%	0%	65%	
Vol Right, %	4%	0%	14%	0%	100%	30%	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	250	225	155	206	23	281	
LT Vol	20	91	0	10	0	12	
Through Vol	219	134	134	196	0	184	
RT Vol	11	0	21	0	23	85	
Lane Flow Rate	266	239	165	219	24	299	
Geometry Grp	2	7	7	7	7	2	
Degree of Util (X)	0.493	0.477	0.315	0.443	0.044	0.535	
Departure Headway (Hd)	6.672	7.174	6.869	7.273	6.528	6.439	
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	
Сар	540	500	523	493	547	559	
Service Time	4.733	4.934	4.629	5.036	4.29	4.498	
HCM Lane V/C Ratio	0.493	0.478	0.315	0.444	0.044	0.535	
HCM Control Delay	16.1	16.4	12.8	15.7	9.6	16.7	
HCM Lane LOS	С	С	В	С	Α	С	
HCM 95th-tile Q	2.7	2.5	1.3	2.2	0.1	3.1	

Intersection												
Intersection Delay, s/veh	16.8											
Intersection LOS	С											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	0	165	12	35	217	31	11	276	42	20	233	4
Future Vol, veh/h	0	165	12	35	217	31	11	276	42	20	233	4
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	181	13	38	238	34	12	303	46	22	256	4
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Approach		EB		WB			NB			SB		
Opposing Approach		WB		EB			SB			NB		
Opposing Lanes		1		1			1			1		
Conflicting Approach Left		SB		NB			EB			WB		
Conflicting Lanes Left		1		1	•		1			1		
Conflicting Approach Right		NB		SB			WB			EB		
Conflicting Lanes Right		1		1			1			1		
HCM Control Delay		13.6		17.2			18.9			15.9		
HCM LOS		В		C			C			С		
Lane		NBLn1	EBLn1	WBLn1	SBLn1							
Vol Left, %		3%	0%	12%	8%							
Vol Thru, %		84%	93%	77%	91%							
Vol Right, %		13%	7%	11%	2%							
Sign Control		Stop	Stop	Stop	Stop							
Traffic Vol by Lane		329	177	283	257							
LT Vol		11	0	35	20							
Through Vol		276	165	217	233							
RT Vol		42	12	31	4							
Lane Flow Rate		362	195	311	282							
Geometry Grp		1	1	1	1							
Degree of Util (X)		0.62	0.362	0.553	0.503							
Departure Headway (Hd)		6.174	6.702	6.401	6.414							
Convergence, Y/N		Yes	Yes	Yes	Yes							
Сар		582	535	563	559							
Service Time		4.235	4.776	4.466	4.479							
HCM Lane V/C Ratio		0.622	0.364	0.552	0.504							
HCM Control Delay		18.9	13.6	17.2	15.9							
HCM Lane LOS		С	В	С	С							
HCM 95th-tile Q		4.2	1.6	3.4	2.8							

Intersection												
Intersection Delay, s/veh	37.3											
Intersection LOS	Е											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		र्स	7		र्स	7		4			ቆ	
Traffic Vol, veh/h	24	248	33	67	244	82	21	236	50	22	157	14
Future Vol, veh/h	24	248	33	67	244	82	21	236	50	22	157	14
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	30	306	41	83	301	101	26	291	62	27	194	17
Number of Lanes	0	1	1	0	1	1	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	2			2			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			2			2		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			2			2		
HCM Control Delay	34.9			43.3			41.2			22.9		
HCM LOS	D			E			E			С		
Lane		NBLn1	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1					
Vol Left, %		7%	9%	0%	22%	0%	11%					
Vol Left, % Vol Thru, %		7% 77%	9% 91%	0% 0%	22% 78%	0% 0%	11% 81%					
Vol Left, % Vol Thru, % Vol Right, %		7% 77% 16%	9% 91% 0%	0% 0% 100%	22% 78% 0%	0% 0% 100%	11% 81% 7%					
Vol Left, % Vol Thru, % Vol Right, % Sign Control		7% 77% 16% Stop	9% 91% 0% Stop	0% 0% 100% Stop	22% 78% 0% Stop	0% 0% 100% Stop	11% 81% 7% Stop					
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane		7% 77% 16% Stop 307	9% 91% 0% Stop 272	0% 0% 100% Stop 33	22% 78% 0% Stop 311	0% 0% 100% Stop 82	11% 81% 7% Stop 193					
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol		7% 77% 16% Stop 307 21	9% 91% 0% Stop 272 24	0% 0% 100% Stop 33	22% 78% 0% Stop 311 67	0% 0% 100% Stop	11% 81% 7% Stop 193 22					
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol		7% 77% 16% Stop 307 21 236	9% 91% 0% Stop 272 24 248	0% 0% 100% Stop 33 0	22% 78% 0% Stop 311	0% 0% 100% Stop 82 0	11% 81% 7% Stop 193 22 157					
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol		7% 77% 16% Stop 307 21 236 50	9% 91% 0% Stop 272 24 248 0	0% 0% 100% Stop 33 0 0	22% 78% 0% Stop 311 67 244	0% 0% 100% Stop 82 0 0	11% 81% 7% Stop 193 22 157					
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate		7% 77% 16% Stop 307 21 236 50 379	9% 91% 0% Stop 272 24 248	0% 0% 100% Stop 33 0 0	22% 78% 0% Stop 311 67 244	0% 0% 100% Stop 82 0	11% 81% 7% Stop 193 22 157 14					
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp		7% 77% 16% Stop 307 21 236 50 379 2	9% 91% 0% Stop 272 24 248 0 336	0% 0% 100% Stop 33 0 0 33 41	22% 78% 0% Stop 311 67 244 0 384	0% 0% 100% Stop 82 0 0 82 101	11% 81% 7% Stop 193 22 157 14 238					
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X)		7% 77% 16% Stop 307 21 236 50 379 2	9% 91% 0% Stop 272 24 248 0 336 7 0.799	0% 0% 100% Stop 33 0 0 33 41 7 0.088	22% 78% 0% Stop 311 67 244 0 384 7	0% 0% 100% Stop 82 0 0 82 101 7	11% 81% 7% Stop 193 22 157 14 238 2					
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd)		7% 77% 16% Stop 307 21 236 50 379 2 0.842 7.999	9% 91% 0% Stop 272 24 248 0 336 7 0.799 8.569	0% 0% 100% Stop 33 0 0 33 41 7 0.088 7.794	22% 78% 0% Stop 311 67 244 0 384 7 0.9 8.44	0% 0% 100% Stop 82 0 0 82 101 7 0.214 7.6	11% 81% 7% Stop 193 22 157 14 238 2 0.574 8.679					
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N		7% 77% 16% Stop 307 21 236 50 379 2 0.842 7.999 Yes	9% 91% 0% Stop 272 24 248 0 336 7 0.799 8.569 Yes	0% 0% 100% Stop 33 0 0 33 41 7 0.088 7.794 Yes	22% 78% 0% Stop 311 67 244 0 384 7 0.9 8.44 Yes	0% 0% 100% Stop 82 0 0 82 101 7 0.214 7.6 Yes	11% 81% 7% Stop 193 22 157 14 238 2 0.574 8.679 Yes					
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap		7% 77% 16% Stop 307 21 236 50 379 2 0.842 7.999 Yes 451	9% 91% 0% Stop 272 24 248 0 336 7 0.799 8.569 Yes 423	0% 0% 100% Stop 33 0 0 33 41 7 0.088 7.794 Yes 459	22% 78% 0% Stop 311 67 244 0 384 7 0.9 8.44 Yes 430	0% 0% 100% Stop 82 0 0 82 101 7 0.214 7.6 Yes 472	11% 81% 7% Stop 193 22 157 14 238 2 0.574 8.679 Yes 415					
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time		7% 77% 16% Stop 307 21 236 50 379 2 0.842 7.999 Yes 451 6.056	9% 91% 0% Stop 272 24 248 0 336 7 0.799 8.569 Yes 423 6.327	0% 0% 100% Stop 33 0 0 33 41 7 0.088 7.794 Yes 459 5.551	22% 78% 0% Stop 311 67 244 0 384 7 0.9 8.44 Yes 430 6.197	0% 0% 100% Stop 82 0 0 82 101 7 0.214 7.6 Yes 472 5.357	11% 81% 7% Stop 193 22 157 14 238 2 0.574 8.679 Yes 415 6.75					
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		7% 77% 16% Stop 307 21 236 50 379 2 0.842 7.999 Yes 451 6.056 0.84	9% 91% 0% Stop 272 24 248 0 336 7 0.799 8.569 Yes 423 6.327 0.794	0% 0% 100% Stop 33 0 0 33 41 7 0.088 7.794 Yes 459 5.551 0.089	22% 78% 0% Stop 311 67 244 0 384 7 0.9 8.44 Yes 430 6.197 0.893	0% 0% 100% Stop 82 0 0 82 101 7 0.214 7.6 Yes 472 5.357 0.214	11% 81% 7% Stop 193 22 157 14 238 2 0.574 8.679 Yes 415 6.75					
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio HCM Control Delay		7% 77% 16% Stop 307 21 236 50 379 2 0.842 7.999 Yes 451 6.056 0.84 41.2	9% 91% 0% Stop 272 24 248 0 336 7 0.799 8.569 Yes 423 6.327 0.794 37.8	0% 0% 100% Stop 33 0 0 33 41 7 0.088 7.794 Yes 459 5.551 0.089 11.3	22% 78% 0% Stop 311 67 244 0 384 7 0.9 8.44 Yes 430 6.197 0.893 51.5	0% 0% 100% Stop 82 0 0 82 101 7 0.214 7.6 Yes 472 5.357 0.214 12.4	11% 81% 7% Stop 193 22 157 14 238 2 0.574 8.679 Yes 415 6.75 0.573 22.9					
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		7% 77% 16% Stop 307 21 236 50 379 2 0.842 7.999 Yes 451 6.056 0.84	9% 91% 0% Stop 272 24 248 0 336 7 0.799 8.569 Yes 423 6.327 0.794	0% 0% 100% Stop 33 0 0 33 41 7 0.088 7.794 Yes 459 5.551 0.089	22% 78% 0% Stop 311 67 244 0 384 7 0.9 8.44 Yes 430 6.197 0.893	0% 0% 100% Stop 82 0 0 82 101 7 0.214 7.6 Yes 472 5.357 0.214	11% 81% 7% Stop 193 22 157 14 238 2 0.574 8.679 Yes 415 6.75					

Intersection												
Intersection Delay, s/veh	7.5											
Intersection LOS	Α											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	5	48	4	5	25	3	3	4	3	27	18	5
Future Vol, veh/h	5	48	4	5	25	3	3	4	3	27	18	5
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	6	59	5	6	30	4	4	5	4	33	22	6
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			1			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			1			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			1			1		
HCM Control Delay	7.5			7.3			7.2			7.6		
HCM LOS	Α			A			А			Α		
Lane		NBLn1	EBLn1	WBLn1	SBLn1							
Vol Left, %		30%	9%	15%	54%							
Vol Thru, %		40%	84%	76%	36%							
Vol Right, %		30%	7%	9%	10%							
Sign Control		Stop	Stop	Stop	Stop							
Traffic Vol by Lane		10	57	33	50							
LT Vol		3	5	5	27							
Through Vol		4	48	25	18							
RT Vol		3	4	3	5							
Lane Flow Rate		12	70	40	61							
Geometry Grp		1	1	1	1							
Decree (LICIA)		0.014	0.079	0.046	0.071							
Degree of Util (X)				4 00	4.182							
Departure Headway (Hd)		4.052	4.067	4.09								
Departure Headway (Hd) Convergence, Y/N		Yes	Yes	Yes	Yes							
Departure Headway (Hd) Convergence, Y/N Cap		Yes 874	Yes 876	Yes 869	Yes 851							
Departure Headway (Hd) Convergence, Y/N Cap Service Time		Yes 874 2.119	Yes 876 2.115	Yes 869 2.144	Yes 851 2.237							
Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		Yes 874 2.119 0.014	Yes 876 2.115 0.08	Yes 869 2.144 0.046	Yes 851 2.237 0.072							
Departure Headway (Hd) Convergence, Y/N Cap Service Time		Yes 874 2.119	Yes 876 2.115	Yes 869 2.144	Yes 851 2.237							

0

0.3

0.1

0.2

HCM 95th-tile Q

Intersection												
Intersection Delay, s/veh	7.4											
Intersection LOS	Α											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR

Lane Configurations		₩.			4			↔			4	
Traffic Vol, veh/h	2	70	6	4	27	5	1	6	4	5	8	5
Future Vol, veh/h	2	70	6	4	27	5	1	6	4	5	8	5
Peak Hour Factor	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	3	89	8	5	34	6	1	8	5	6	10	6
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			1			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			1			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			1			1		
HCM Control Delay	7.5			7.3			7.1			7.3		
HCM LOS	Α			A			A			Α		

Lane	NBLn1	EBLn1	WBLn1	SBLn1	
Vol Left, %	9%	3%	11%	28%	
Vol Thru, %	55%	90%	75%	44%	
Vol Right, %	36%	8%	14%	28%	
Sign Control	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	11	78	36	18	
LT Vol	1	2	4	5	
Through Vol	6	70	27	8	
RT Vol	4	6	5	5	
Lane Flow Rate	14	99	46	23	
Geometry Grp	1	1	1	1	
Degree of Util (X)	0.015	0.109	0.051	0.026	
Departure Headway (Hd)	4.002	3.99	4.01	4.084	
Convergence, Y/N	Yes	Yes	Yes	Yes	
Сар	885	897	890	869	
Service Time	2.067	2.016	2.046	2.146	
HCM Lane V/C Ratio	0.016	0.11	0.052	0.026	
HCM Control Delay	7.1	7.5	7.3	7.3	
HCM Lane LOS	Α	Α	Α	Α	
HCM 95th-tile Q	0	0.4	0.2	0.1	

Intersection							
Int Delay, s/veh	4.1						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	ሻ	<u></u>	4		¥		
Traffic Vol, veh/h	135	426	437	115	31	184	
Future Vol, veh/h	135	426	437	115	31	184	
Conflicting Peds, #/hr	10	0	0	10	10	10	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	0	-	-	-	0	-	
Veh in Median Storage	,# -	0	0	-	0	-	
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	95	95	95	95	95	95	
Heavy Vehicles, %	2	5	5	2	2	2	
Mvmt Flow	142	448	460	121	33	194	
Major/Minor I	Major1	N	Major2	N	Minor2		
Conflicting Flow All	591	0	-	0	1273	541	
Stage 1	-	-	-	-	531	-	
Stage 2	-	-	-	-	742		
Critical Hdwy	4.12	-	-	-	6.42	6.22	
Critical Hdwy Stg 1	-	-	-	-	5.42	-	
Critical Hdwy Stg 2	-	-	-	-	5.42	-	
Follow-up Hdwy	2.218	-	-	-	3.518	3.318	
Pot Cap-1 Maneuver	985	-	-	_	185	541	
Stage 1	-	-	-	_	590	-	
Stage 2	-	-	-	-	471	-	
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuver	976	-	-	-	155	531	
Mov Cap-2 Maneuver	-	-	-		291	-	
Stage 1	-	-	-	-	499	-	
Stage 2	-	-	-	-	466	-	
Approach	EB		WB		SB		
HCM Control Delay, s	2.2		0		19.3		
HCM LOS					С		
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR	SBLn1	
Capacity (veh/h)		976				475	
HCM Lane V/C Ratio		0.146	_	_	_	0.476	
HCM Control Delay (s)		9.3	_	_	_	19.3	
HCM Lane LOS		3.5 A	_	-	_	C	
HCM 95th %tile Q(veh))	0.5	_	-	_	2.5	
		3.0				0	

Intersection							
Int Delay, s/veh	5.6						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	ň	↑	f)		¥		
Traffic Vol, veh/h	32	425	475	180	90	77	
Future Vol, veh/h	32	425	475	180	90	77	
Conflicting Peds, #/hr	10	0	0	10	10	10	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	_	None	-		-	None	
Storage Length	65	-	-	-	0	-	
Veh in Median Storage	e,# -	0	0	-	0	-	
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	92	92	92	92	92	92	
Heavy Vehicles, %	2	4	4	2	2	2	
Mvmt Flow	35	462	516	196	98	84	
Major/Minor	Major1		//oior0		Minor O		
	Major1		Major2		Minor2	604	
Conflicting Flow All	722	0	-	0	1166	634	
Stage 1	-	-	-	-	624	-	
Stage 2	- 4.40	-	-	-	542	0.00	
Critical Hdwy	4.12	-	-	-	6.42	6.22	
Critical Hdwy Stg 1	-	-	-	-	5.42	-	
Critical Hdwy Stg 2	- 0.040	-	-	-	5.42	2 240	
Follow-up Hdwy	2.218	-	-	-			
Pot Cap-1 Maneuver	880	-	-	_	214	479	
Stage 1	-	-	-		534	- \	
Stage 2	-	_		-	583	-	
Platoon blocked, %	070	-	-	-	004	470	
Mov Cap-1 Maneuver		-	-	-	201	470	
Mov Cap-2 Maneuver	-	- `	-	-	201		7
Stage 1	-	-	-	-	507	-	
Stage 2	-	-	-	-	577	-	
Approach	EB		WB		SB		
HCM Control Delay, s	0.7		0		40.9		
HCM LOS					E		
Minor Lane/Major Mvr	nt	EBL	EBT	WBT	WBR:	SBL _{n1}	
Capacity (veh/h)		872	-		-	273	
HCM Lane V/C Ratio		0.04	_	-	_	0.665	
HCM Control Delay (s)	9.3	-	-	_	40.9	
HCM Lane LOS	,	Α	-	-	-	E	
HCM 95th %tile Q(veh	1)	0.1	-	-	_	4.3	
	,						

Intersection						
Int Delay, s/veh	2.5					
		MOD	NDT	NDD	ODI	ODT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	, <u>, , , , , , , , , , , , , , , , , , </u>	74	\$	50	40	41
Traffic Vol, veh/h	65	71	351	52	10	500
Future Vol, veh/h	65	71	351	52	10	500
Conflicting Peds, #/hr	10	10	0	10	10	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length Veh in Median Storage	0 e,# 0	-	0	-	-	0
	e, # 0		0	-		0
Grade, % Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	76	84	413	61	12	588
INIVITIL FIOW	70	04	413	01	12	500
Major/Minor	Minor1		Major1	ا	Major2	
Conflicting Flow All	782	464	0	0	484	0
Stage 1	454	-	-	-	-	-
Stage 2	328	-	-	-	-	-
Critical Hdwy	6.63	6.23	-	-	4.13	1
Critical Hdwy Stg 1	5.43	-	-	-	-	-
Critical Hdwy Stg 2	5.83	-	-	_	-	-
Follow-up Hdwy		3.319	-	-	2.219	-
Pot Cap-1 Maneuver	347	597	-	-	1077	-
Stage 1	639	-	-	-	-	-
Stage 2	703	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver		586	-	-	1067	-
Mov Cap-2 Maneuver		-	-		-	-
Stage 1	633	-	-	-	-	-
Stage 2	685	-		-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s			0		0.3	
HCM LOS	10.2 C				0.0	
TIOWI LOG	C					
Minor Lane/Major Mvr	nt	NBT	NBR	VBLn1	SBL	SBT
Capacity (veh/h)		-	-		1067	-
HCM Lane V/C Ratio		-	-	0.371	0.011	-
HCM Control Delay (s		-	-		8.4	0.1
HCM Lane LOS		-	-	С	Α	Α
HCM 95th %tile Q(veh	1)	-	-	1.7	0	-

Intersection							
Int Delay, s/veh	7.1						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	WDL.	וטיי	1 √	TADIA	ODL	41	
Traffic Vol, veh/h	60	115	316	106	175	450	
Future Vol, veh/h	60	115	316	106	175	450	
Conflicting Peds, #/hr	10	10	0	100	10	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	- -	None	-	None	-	None	
Storage Length	0	-	_	-	_	-	
Veh in Median Storage		_	0	_	_	0	
Grade, %	0	_	0	_	_	0	
Peak Hour Factor	86	86	86	86	86	86	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	70	134	367	123	203	523	
	, ,		- 501		_00		
		_		_			
	Minor1		Major1		Major2		
Conflicting Flow All	1117	449	0	0	500	0	
Stage 1	439	-	-	-	-	-	
Stage 2	678	-	-	-	-	-	
Critical Hdwy	6.63	6.23	-	-	4.13		
Critical Hdwy Stg 1	5.43	-	-	-	-	-	
Critical Hdwy Stg 2	5.83		-	-	-	-	
Follow-up Hdwy	3.519		-	-	2.219	-	
Pot Cap-1 Maneuver	215	609	-	_	1062	-	
Stage 1	649	-	_	-	-	- \	
Stage 2	467	-	-	-	-	-	
Platoon blocked, %	,-,	F07	-	-	40.00	-	
Mov Cap-1 Maneuver		597	-	-	1052	-	V Comment of the comm
Mov Cap-2 Maneuver		-	-			-	
Stage 1	643	-	-	-	-	-	
Stage 2	337	-	-	-	-	-	
Approach	WB		NB		SB		
HCM Control Delay, s	38.7		0		3.1		
HCM LOS	E						
	_						
Minor Lane/Major Mvr	nt	NBT	NBRV	VBLn1	SBL	SBT	
Capacity (veh/h)		-	_		1052		
HCM Lane V/C Ratio		_		0.676		-	
HCM Control Delay (s)	_	_		9.2	0.7	
HCM Lane LOS	1	_	_	E	A	A	
HCM 95th %tile Q(veh	1)	_	_	4.6	0.7	-	
1.5.11 55th 70th Q(VCI	'/			7.0	0.1		

Movement EBL EBT WBT WBR SBL SBR	Intersection							
Tarlife Vol, veh/h 8 107 62 2 10 17 "Uniture Vol, veh/h 8 107 62 2 10 17 Conflicting Peds, #/hr 10 0 0 10 10 10 10 10 10 10 10 10 10 10	Int Delay, s/veh	1.5						
Tarlier Vol., veh/h	Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Traffic Vol, veh/h 8 107 62 2 10 17 viture Vol, veh/h 8 107 62 2 10 17 conflicting Peds, #hr 10 0 0 10 10 10 conflicting Peds, #hr 10 0 0 0 10 10 10 conflicting Peds, #hr 10 0 0 0 - None VT Channelized - None - None VT Channelized - None - None Veh in Median Storage, # - 0 0 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -			4					
Future Vol, veh/h 8 107 62 2 10 17 Conflicting Peds, #hr 10 0 0 10 10 10 10 10 10 10 10 10 10 10		8			2		17	
Conflicting Peds, #hr 10 0 0 0 10 10 10 10	•							
Free Free Free Free Free Stop Stop								
None								
Corage Length								
//eh in Median Storage, # - 0 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0		_		_		0		
Grade W		e.# -	0	0	-		_	
Beak Hour Factor 84		-			_		_	
Reavy Vehicles, % 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		84			84		84	
Major/Minor Major1 Major2 Minor2 Conflicting Flow All 86 0 - 0 242 95 Stage 1 85 - Stage 2 157 - 0. Critical Hdwy 4.12 6.42 6.22 Critical Hdwy Stg 1 5.42 - 0. Critical Hdwy Stg 2 5.42 - 0. Critical Hdwy Ystg 2 7.46 962 Stage 1 9.38 - 0. Stage 1 746 962 Stage 1 9.38 - 0. Stage 2 871 - 0. Critical Hdwy Stg 2 882 - 0. Stage 2 885 - 0. Stage 2 882 - 0. Critical Hdwy Stg 2 880 - 0. Critical Hdwy Stg 2 880 - 0. Critical Hdwy Stg 2 850								
Major/Minor Major1 Major2 Minor2 Minor	Mvmt Flow							
Stage 1								
Stage 1	Maior/Mina-	NA=1==4		Ania TO		Ain c = O		
Stage 1								
Stage 2 157 - Critical Hdwy 4.12 6.42 6.22 Critical Hdwy Stg 1 5.42 - Critical Hdwy Stg 2 5.42 - Collow-up Hdwy 2.218 3.518 3.318 Crot Cap-1 Maneuver 1510 746 962 Stage 1 938 - Stage 2 871 - Critical Hdwy Stg 2 726 942 Critical Hdwy Stg 2 871 - Critical Hdwy Stg 2 862 - Critical Hdwy Stg 1 726 942 Critical Hdwy Stg 1 726 942 Critical Hdwy Stg 2 862 - Critical Hdwy Stg 1 922 - Stage 1 922 - Stage 1 922 - Stage 2 862 - Critical Hdwy Stg 1 850 Critical Hdwy Stg 1 850			0	-	0			
Critical Howy Stg 1 6.42 6.22 Critical Howy Stg 1 5.42 5.42 Critical Howy Stg 2 5.42 Critical Howy Stg 1			-	-	-			
Critical Hdwy Stg 1 5.42 - Critical Hdwy Stg 2 5.42 - 50llow-up Hdwy 2.218 3.518 3.318 Pot Cap-1 Maneuver 1510 746 962 Stage 1 938 - Stage 2 871 - Platon blocked, % 726 944 Mov Cap-1 Maneuver 1496 726 944 Mov Cap-2 Maneuver 726 - Stage 1 932 - Stage 2 862 - Stage 2 862 862 862 862 862			-	-	-			
Critical Hdwy Stg 2 5.42 - Follow-up Hdwy 2.218 3.518 3.318 Pot Cap-1 Maneuver 1510 746 962 Stage 1 938 - Stage 2 871 - Platon blocked, % 726 944 Mov Cap-1 Maneuver 1496 726 944 Mov Cap-2 Maneuver 726 - Stage 1 922 - Stage 2 862 - Stage 2 862 862 862 862 862 862 862 862			-	-	-			
Follow-up Hdwy 2.218 3.518 3.318 Pot Cap-1 Maneuver 1510 746 962 Stage 1 938 - Stage 2 871 - Platoon blocked, % 726 944 Mov Cap-1 Maneuver 1496 726 944 Mov Cap-2 Maneuver 726 - Stage 1 922 - Stage 2 862 862 862 862 862 862 862			-	-	-			
Pot Cap-1 Maneuver 1510 746 962 Stage 1 938 - 938 - Stage 2 871 - 938 -			-	-	-			
Stage 1 938 - Stage 2 871 - Platoon blocked, % Mov Cap-1 Maneuver 1496 726 944 Mov Cap-2 Maneuver 726 - Stage 1 922 - Stage 2 862 - Approach EB WB SB HCM Control Delay, s 0.5 0 9.4 HCM LOS A Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1 Capacity (veh/h) 1496 850			-	-	-			
Stage 2	•		-	-	_			
Platoon blocked, %			-	_	_		- '	
Mov Cap-1 Maneuver 1496 726 944 Mov Cap-2 Maneuver 726		-	-			8/1	-	
Mov Cap-2 Maneuver 726 - 922 - Stage 1 862 - 862 862 - Approach EB WB SB HCM Control Delay, s 0.5 0 9.4 HCM LOS A A Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1 Capacity (veh/h) 1496 850		1406	-	-		726	044	
Stage 1 - - - 922 - Stage 2 - - - 862 - Approach EB WB SB HCM Control Delay, s 0.5 0 9.4 HCM LOS A Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1 Capacity (veh/h) 1496 - - - 850			-	-				*
Stage 2 - - - 862 - Approach EB WB SB HCM Control Delay, s 0.5 0 9.4 HCM LOS A Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1 Capacity (veh/h) 1496 - - 850			- `	-	-			7
Approach			_		-			
## ACM Control Delay, s 0.5 0 9.4 ## ACM LOS A ## ACM L	Stage 2	-		- `	-	002	_	
## ACM Control Delay, s 0.5 0 9.4 ## ACM LOS A ## ACM L								
A Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1 Capacity (veh/h) 1496 850	Approach	EB		WB		SB		
A Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1 Capacity (veh/h) 1496 850	HCM Control Delay, s	0.5		0		9.4		
Capacity (veh/h) 1496 850	HCM LOS					Α		
Capacity (veh/h) 1496 850								
	Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR S	SBLn1	
ICM Lane V/C Ratio 0.006 0.038	Capacity (veh/h)		1496	-	-	-	850	
	HCM Lane V/C Ratio		0.006	-	-	-	0.038	
HCM Control Delay (s) 7.4 0 9.4	HCM Control Delay (s)		7.4	0	-	-	9.4	
	HCM Lane LOS		Α	Α	-	-		
HCM 95th %tile Q(veh) 0 0.1	HCM 95th %tile Q(veh)	0	-	-	-	0.1	

Intersection													
Int Delay, s/veh	1.3												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		44			4			4			44		
Traffic Vol, veh/h	9	101	7	0	57	1	0	1	0	5	6	7	
Future Vol, veh/h	9	101	7	0	57	1	0	1	0	5	6	7	
Conflicting Peds, #/hr	10	0	10	10	0	10	10	0	10	10	0	10	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	10	110	8	0	62	1	0	1	0	5	7	8	
Major/Minor I	Major1			Major2			Minor1		_ N	Minor2			
Conflicting Flow All	73	0	0	128	0	0	224	217	134	218	221	83	
Stage 1	-	-		120	-	-	144	144	104	73	73	-	
Stage 2	_	_	_	_	_	_	80	73		145	148	_	
Critical Hdwy	4.12	-	-	4.12	_		7.12	6.52	6.22	7.12	6.52	6.22	
Critical Hdwy Stg 1	7.12	_	_	7.12	_	-	6.12	5.52	0.22	6.12	5.52	0.22	
Critical Hdwy Stg 1		-			_		6.12	5.52		6.12	5.52	_	
Follow-up Hdwy	2.218	_	_	2.218	_		3.518		3.318	3.518	4.018	3.318	
Pot Cap-1 Maneuver	1527	-	-	1458	_		732	681	915	738	678	976	
Stage 1	1321	_		1430	-	_	859	778	915	937	834	310	
Stage 2	-	-			-	-	929	834	<u>-</u>	858	775		
Platoon blocked, %		-	_	_	_	-	323	004	-	000	113	-	
Mov Cap-1 Maneuver	1512	-		1444		-	703	663	898	720	660	957	
Mov Cap-1 Maneuver	1012			1444			703	663	- 090	720	660	901	
Stage 1	-	- `					845	765		922	826	_	
Stage 2	-			_	_	_	906	826	_	843	762	_	
Staye 2			_		-	_	900	020	-	040	102	<u>-</u>	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	0.6			0			10.4			9.8			
HCM LOS							В			Α			
Minor Lane/Major Mvm	nt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1				
Capacity (veh/h)		663	1512			1444		-	771				
HCM Lane V/C Ratio		0.002		_	_		_		0.025				
HCM Control Delay (s)		10.4	7.4	0	_	0	_	_	9.8				
HCM Lane LOS		В	Α	A	_	A	<u>-</u>	<u>-</u>	Α				
HCM 95th %tile Q(veh))	0	0	-	_	0	_	_	0.1				
	1					J			J. 1				

Intersection												
Int Delay, s/veh	9.9											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			44			4î.			414	
Traffic Vol, veh/h	3	25	78	6	29	24	5	897	14	14	1111	24
Future Vol, veh/h	3	25	78	6	29	24	5	897	14	14	1111	24
Conflicting Peds, #/hr	10	0	10	10	0	10	10	0	10	10	0	10
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	<u> </u>	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	7	-
Veh in Median Storage	, # -	0	-	-	0	_	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	99	99	99	99	99	99	99	99	99	99	99	99
Heavy Vehicles, %	2	2	2	2	2	2	2	4	2	2	4	2
Mvmt Flow	3	25	79	6	29	24	5	906	14	14	1122	24
Major/Minor I	Minor2			Minor1			Major1			//ajor2		
Conflicting Flow All	1660	2112	593	1545	2117	480	1156	0	0	930	0	0
Stage 1	1172	1172	-	933	933	-	-	-	7	-	-	-
Stage 2	488	940	-	612	1184		-	-	-	-	-	-
Critical Hdwy	7.54	6.54	6.94	7.54	6.54	6.94	4.14	-	-	4.14	-	-
Critical Hdwy Stg 1	6.54	5.54	-	6.54	5.54	-	-	-	-		-	-
Critical Hdwy Stg 2	6.54	5.54	-	6.54	5.54	-	-	-	-	-	-	-
Follow-up Hdwy	3.52	4.02	3.32	3.52	4.02	3.32	2.22	-		2.22	-	-
Pot Cap-1 Maneuver	64	50	449	78	50	532	600	-	-	731	-	-
Stage 1	204	264	-	286	343	-	-	-	-	-	-	-
Stage 2	530	340	-	447	261	-	-	-		-	-	-
Platoon blocked, %							13	-	-		-	-
Mov Cap-1 Maneuver	28	46	440	34	46	522	594	-	-	724	-	-
Mov Cap-2 Maneuver	28	46	-	34	46	-	-	-	-	-	-	-
Stage 1	199	247	-	279	334	-	-	-	-	-	-	-
Stage 2	449	331		309	245	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	105.6			172.2			0.2			0.4		
HCM LOS	F			F								
Minor Lane/Major Mvm	nt	NBL	NBT	NBR I	EBLn1V	VBLn1	SBL	SBT	SBR			
Capacity (veh/h)		594	-	-	128	69	724	-	-			
HCM Lane V/C Ratio		0.009	_	_	0.836		0.02	-	-			
HCM Control Delay (s)		11.1	0.1	-		172.2	10.1	0.3	-			
HCM Lane LOS		В	Α	-	F	F	В	Α	-			
HCM 95th %tile Q(veh))	0	-	-	5.2	4.2	0.1	-	-			

Intersection												
Int Delay, s/veh	4.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	LDL	4	LDIX	VVDL	₩ <u>₩</u>	VVDIX	NDL	413	אטוז	ODL	4 1	אופט
Traffic Vol, veh/h	3	13	63	13	17	18	4	905	15	13	1073	15
Future Vol, veh/h	3	13	63	13	17	18	4	905	15	13	1073	15
Conflicting Peds, #/hr	10	0	10	10	0	10	10	0	10	10	0	10
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	_	_	None	_	-	None
Storage Length	_	-	-	_	-	-	-	_	-	-	7	_
Veh in Median Storage	, # -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	99	99	99	99	99	99	99	99	99	99	99	99
Heavy Vehicles, %	2	2	2	2	2	2	2	4	2		4	2
Mvmt Flow	3	13	64	13	17	18	4	914	15	13	1084	15
Major/Minor N	Minor2		ľ	Minor1		N	Major1		N	Major2		
Conflicting Flow All	1612	2075	570	1525	2075	485	1109	0	0	939	0	0
Stage 1	1128	1128	-	940	940	-	-	-	7	-	_	-
Stage 2	484	947	-	585	1135	-	-	-	-	-	-	-
Critical Hdwy	7.54	6.54	6.94	7.54	6.54	6.94	4.14	-	-	4.14	-	-
Critical Hdwy Stg 1	6.54	5.54	-	6.54	5.54	-	-		-		-	-
Critical Hdwy Stg 2	6.54	5.54	-	6.54	5.54	-	-	-		-	-	
Follow-up Hdwy	3.52	4.02	3.32	3.52	4.02	3.32	2.22	-		2.22	-	-
Pot Cap-1 Maneuver	69	53	465	81	53	528	625	-	-	726	-	-
Stage 1	218	278	-	283	340	-	-	-	-	-	-	-
Stage 2	533	338	-	464	275	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	46	49	456	52	49	518	619	-	-	719	-	-
Mov Cap-2 Maneuver	46	49	-	52	49	-	-	-	-	-	-	-
Stage 1	213	262	-	277	332	-	-	-	-	-	-	-
Stage 2	477	330	-	358	259	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	44			113.2			0.1			0.3		
HCM LOS	Е			F								
Minor Lane/Major Mvm	it	NBL	NBT	NBR I	EBLn1V	VBLn1	SBL	SBT	SBR			
Capacity (veh/h)		619	-	-	169	76	719	-	-			
HCM Lane V/C Ratio		0.007	-	-		0.638		-	-			
HCM Control Delay (s)		10.9	0.1	-		113.2	10.1	0.2	-			
HCM Lane LOS		В	Α	-	Е	F	В	Α	-			
HCM 95th %tile Q(veh)		0	-	-	2.2	2.9	0.1	-	-			

Intersection							
Int Delay, s/veh	4.3						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	†	LDIN	WDL	414	₩.	NDIX	
Traffic Vol, veh/h	1500	100	48	1608	8	26	
Future Vol, veh/h	1500	100	48	1608	8	26	
Conflicting Peds, #/hr	0	100	10	0	26	10	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-		-	None	
Storage Length	<u>-</u>	-	_	-	0	-	
Veh in Median Storage		_	_	0	0	_	
Grade, %	0	_	_	0	0	_	
Peak Hour Factor	93	93	93	93	93	93	
Heavy Vehicles, %	4	2	2	4	2	2	
Nymt Flow	1613	108	52	1729	9	28	
VIVIIIL I IOW	1013	100	JZ	1123	3	20	
	Major1	N	Major2		/linor1		
Conflicting Flow All	0	0	1731	0	2672	881	
Stage 1	-	_	-	-	1677	-	
Stage 2	-	-	-	-	995	-	
Critical Hdwy	-	-	4.14	-	6.84	6.94	
Critical Hdwy Stg 1	-	-	-	-	5.84	-	
Critical Hdwy Stg 2	-	-	-	-	5.84	-	
Follow-up Hdwy	-	-	2.22	-	3.52	3.32	
Pot Cap-1 Maneuver	-	-	360	-	18	290	
Stage 1	-	-	-	-	137	-	
Stage 2	-	-	-	-	318	-	
Platoon blocked, %	-	-		-			
Mov Cap-1 Maneuver	-	-	357	-	0	285	
Mov Cap-2 Maneuver	-	-	-		0	-	
Stage 1	-	-	-	-	136	-	
Stage 2	-	-		-	0	-	
Approach	EB		WB		NB		
HCM Control Delay, s	0		8.2		19.5		
HCM LOS			3.2		C		
15.7. 255							
Minor Lane/Major Mvm	nt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)		285	_		357	_	
HCM Lane V/C Ratio		0.128	_		0.145	_	
HCM Control Delay (s)		19.5	_	_		7.9	
HCM Lane LOS		C	_	_	C	7.5 A	
HCM 95th %tile Q(veh)	0.4	_		0.5	-	
TOTAL DOLL TOUR ON A LANGE	1	0.7			0.0		

Intersection							
Int Delay, s/veh	4.1						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	† 1>			414	¥		
Traffic Vol, veh/h	1501	25	55	1648	8	18	
Future Vol, veh/h	1501	25	55	1648	8	18	
Conflicting Peds, #/hr	0	10	10	0	10	10	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-		-		-	None	
Storage Length	_	-		INOILE	0	NONE	
/eh in Median Storage	e, # 0	_	_	0	0	_	
Grade, %	0	_	_	0	0	_	
Peak Hour Factor	95	95	95	95	95	95	
Heavy Vehicles, %	4	2	2	4	2	95	
Mvmt Flow	1580	26	58	1735	8	19	
WIVITIL FIOW	1360	20	20	1735	Ŏ	19	
Major/Minor	Major1	N	Major2	N	/linor1		
Conflicting Flow All	0	0	1616	0	2597	823	
Stage 1	-	_	-	-	1603	-	
Stage 2	_	_	_	_	994		
Critical Hdwy	_	_	4.14	_	6.84	6.94	
Critical Hdwy Stg 1	_	_	-	_	5.84	-	
Critical Hdwy Stg 2	_	_	_	_	5.84		
Follow-up Hdwy	_	_	2.22	_	3.52	3.32	
Pot Cap-1 Maneuver	_	_	399	_	20	317	
Stage 1	_	_	-	-	150	-	
Stage 2	_	_		_	319	_	
Platoon blocked, %	_	_		_	010		
Mov Cap-1 Maneuver	_		395	_	0	311	
Mov Cap-1 Maneuver	_	_	-		0	-	7
Stage 1	_				149		
Stage 2			_	_	0	_	
Olugo Z			_		J		
Approach	EB		WB		NB		
HCM Control Delay, s	0		7.6		17.7		
HCM LOS					С		
Minor Lane/Major Mvn	nt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)		311	_		395		
HCM Lane V/C Ratio		0.088	_	_	0.147	-	
HCM Control Delay (s)		17.7	_	_	15.7	7.3	
HCM Lane LOS		C	_	_	C	Α	
HCM 95th %tile Q(veh)	0.3	_	_	0.5	-	
13.71 00th 70th Q(VCH	1	3.0			0.0		

Intersection														
Int Delay, s/veh	4.4													
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR		
Lane Configurations		414			सीक			4			4			
Traffic Vol, veh/h	9	1500	10	31	1668	13	10	10	23	7	0	25		
Future Vol, veh/h	9	1500	10	31	1668	13	10	10	23	7	0	25		
Conflicting Peds, #/hr	10	0	10	10	0	10	10	0	10	10	0	10		
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop		
RT Channelized	-	_	None	_	_	None	-	-	None	-	-	None		
Storage Length	_	_	-	_	_	-	_	_	-	_	7	-		
Veh in Median Storage	.# -	0	_	_	0	_	_	0	_	-	0	_		
Grade, %	, <i>''</i>	0	_	_	0	_	_	0	_		0			
Peak Hour Factor	97	97	97	97	97	97	97	97	97	97	97	97		
Heavy Vehicles, %	2	4	2	2	4	2	2	2	2		2	2		
	9	1546	10	32		13	10	10	24	7	0	26		
Mvmt Flow	9	1546	10	32	1720	13	10	10	24	1	U	26		
Major/Minor N	Major1			Major?		N	Minor1			Minor2				
	Major1	^		Major2	0			2200			2205	007		
Conflicting Flow All	1743	0	0	1566	0	0	2513	3386	798	2607	3385	887		
Stage 1	-	-	-	-	-	-	1579	1579	_ <	1801	1801	-		
Stage 2	-	-	-	-	-	-	934	1807	-	806	1584	-		
Critical Hdwy	4.14	-	-	4.14	-	-	7.54	6.54	6.94	7.54	6.54	6.94		
Critical Hdwy Stg 1	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-		
Critical Hdwy Stg 2	-	-	-	-	-	-	6.54	5.54	_	6.54	5.54	-		
Follow-up Hdwy	2.22	-	-	2.22	-	-	3.52	4.02	3.32	3.52	4.02	3.32		
Pot Cap-1 Maneuver	357	-	-	418	-	-	14	~ 7	329	12	7	287		
Stage 1	-	-	-	-	-	_	114	168	-	83	130	-		
Stage 2	-	-	-	-	-	-	286	129	-	342	167	-		
Platoon blocked, %		-	-		7-	_								
Mov Cap-1 Maneuver	354	-	-	414		-	-	0	323	_	0	282		
Mov Cap-2 Maneuver	-	_	-	_	_	-	-	0	-	_	0			
Stage 1	_	-	-	-	_	-	91	135	_	67	0	_		
Stage 2			_	_	_	_	-	0	_	235	134	_		
Jugo L										_00	.07			
Approach	EB			WB			NB			SB				
HCM Control Delay, s	1.5			7.1			IND			SD				
, ,	1.5			7.1										
HCM LOS							-			-				
Minor Lane/Major Mvm	t	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1					
Capacity (veh/h)		-	354	-	-	414	-	-	-					
HCM Lane V/C Ratio		-	0.026	-	-	0.077	-	-	-					
HCM Control Delay (s)		_	15.4	1.4	-	14.4	7	-	-					
HCM Lane LOS		_	С	Α	_	В	A	_	_					
HCM 95th %tile Q(veh)		-	0.1	-	-	0.2	-	-	-					
Notes	! !	6 D	lass:		00-		and a Ca	N ₂ (D	. C	*. 4.1		l	- ulata -	
~: Volume exceeds cap	acity	\$: De	elay exc	eeds 30	JUS	+: Com _l	outation	NOT DE	erined	": All	major v	olume II	n platoon	

Interception							
Intersection	0.4						
Int Delay, s/veh	0.4						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	∱ ∱			ተተቡ	¥		
Traffic Vol, veh/h	1518	12	38	1707	5	7	
Future Vol, veh/h	1518	12	38	1707	5	7	
Conflicting Peds, #/hr	0	10	10	0	10	10	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	-	-	-	-	0	-	
Veh in Median Storage,		-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	93	93	93	93	93	93	
Heavy Vehicles, %	4	2	2	4	2	2	
Mvmt Flow	1632	13	41	1835	5	8	
Major/Minor N	/lajor1	N	Major2	N	Minor1		
Conflicting Flow All	0	0	1655	0	2475	843	
Stage 1	-	-	-	-	1649	-	
Stage 2	_	_	_	_	826		
Critical Hdwy	-	-	4.14	-	6.29	6.94	
Critical Hdwy Stg 1	_	_	-	_	5.84	-	
Critical Hdwy Stg 2	_	-	_	-	6.04	-	
Follow-up Hdwy	-	-	2.22	-	3.67	3.32	
Pot Cap-1 Maneuver	-	-	386	_	36	307	
Stage 1	-	-	-		140	-	
Stage 2	-	-	-	-	363	-	
Platoon blocked, %	-	-		-			
Mov Cap-1 Maneuver	-	-	382	-	35	301	
Mov Cap-2 Maneuver	-	-	-	_	35	-	7
Stage 1	-	-	-	-	139	-	
Stage 2	-	-	_	-	359	-	
Approach	EB		WB		NB		
HCM Control Delay, s	0		0.3		65.6		
HCM LOS	U		5.5		00.0		
TOW LOO					'		
Mineral and Maria Ma		UDL 4	EDT		MDI	WET	
Minor Lane/Major Mvmt		VBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)		72	-	-	382	-	
HCM Lane V/C Ratio		0.179	-		0.107	-	
HCM Control Delay (s)		65.6	-	-	15.6	0	
HCM Lane LOS		F	-	-	C	Α	
HCM 95th %tile Q(veh)		0.6	-	-	0.4	-	

Intersection							
Int Delay, s/veh	0.1						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations		EBR	WDL	↑	NDL	NDIN	
Traffic Vol, veh/h	↑ ↑	18	0	TTT 1745	0	13	
Future Vol, veh/h	1507	18	0	1745	0	13	
Conflicting Peds, #/hr	0	10	10	0	10	10	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-		Stop -	None	
Storage Length	_	-		-	_	0	
Veh in Median Storage		_	-	0	0	-	
Grade, %	0	-	_	0	0	_	
Peak Hour Factor	97	97	97	97	97	97	
Heavy Vehicles, %	4	2	2	4	2	2	
Mvmt Flow	1554	19	0	1799	0	13	
IVIVIIIL FIOW	1334	19	U	1799	U	13	
Major/Minor I	Major1	N	//ajor2	N	/linor1		
Conflicting Flow All	0	0		-	-	807	
Stage 1	-	_	_	-	_	-	
Stage 2	_	_	_	_	_		
Critical Hdwy	_	_	_	-	_	6.94	
Critical Hdwy Stg 1	_	_	_	_	_	-	
Critical Hdwy Stg 2	_	_	_	-	-		
Follow-up Hdwy	_	-	_	_	_	3.32	
Pot Cap-1 Maneuver	-	-	0	-	0	324	
Stage 1	-	-	0		0	-	
Stage 2	-	-	0	-	0	-	
Platoon blocked, %	_	-		_			
Mov Cap-1 Maneuver	_	-	_	_	_	318	
Mov Cap-2 Maneuver	_	_	-	_	-	-	7
Stage 1	_	_	-	_	_		
Stage 2	_	_	_	_	_	_	
Clayo Z							
Approach	EB		WB		NB		
HCM Control Delay, s	0		0		16.8		
HCM LOS					С		
Minor Lane/Major Mvm	it	NBLn1	EBT	EBR	WBT		
Capacity (veh/h)		318	_	-	-		
HCM Lane V/C Ratio		0.042	_	_	_		
HCM Control Delay (s)		16.8	_	_	_		
HCM Lane LOS		C	_	_	_		
HCM 95th %tile Q(veh)		0.1	_	_	_		
HOW JOHN JOHN QUEN		0.1	_	_			

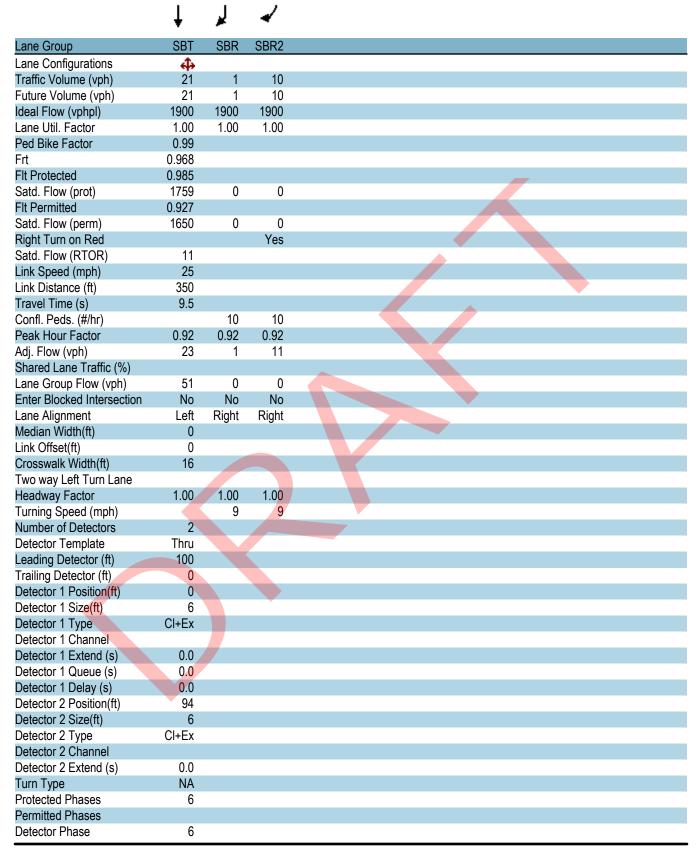
Intersection													
Int Delay, s/veh	2.8												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ሻ	ĵ.			44			44			44		
Traffic Vol, veh/h	12	461	20	50	420	20	8	11	28	7	26	38	
Future Vol, veh/h	12	461	20	50	420	20	8	11	28	7	26	38	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	0	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage	e, # -	0	-	-	0	-	-	0	-	-		-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	13	501	22	54	457	22	9	12	30	8	28	41	
Major/Minor	Major1			Major2			Minor1		N	Minor2			
Conflicting Flow All	479	0	0	523	0	0	1149	1125	512	1135	1125	468	
Stage 1	-	-	-	-	-	-	538	538	-	576	576	-	
Stage 2	-	-	-	-	-		611	587	-	559	549	-	
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22	
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52		6.12	5.52	-	
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318	
Pot Cap-1 Maneuver	1083	-	-	1043	-	-	176	205	562	179	205	595	
Stage 1	-	-	-		-	-	527	522	-	503	502	-	
Stage 2	-	-	-	-	-	-	481	497	-	513	516	-	
Platoon blocked, %		-	-		7-	-							
Mov Cap-1 Maneuver	1083	-	-	1043	-	-	136	188	562	151	188	595	
Mov Cap-2 Maneuver	-	-	-		_	-	136	188	-	151	188	-	
Stage 1	-	-	-	-	-	-	521	516	-	497	466	-	
Stage 2		•	-	-	-	-	391	462	-	468	510	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	0.2			0.9			20.6			22.2			
HCM LOS							С			С			
Minor Lane/Major Mvm	nt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR :	SBLn1				
Capacity (veh/h)		281	1083			1043			286				
HCM Lane V/C Ratio		0.182	0.012	-	_	0.052	_	_	0.27				
HCM Control Delay (s)		20.6	8.4	_	_	8.6	0	_	22.2				
HCM Lane LOS		C	A	_	_	Α	A	_	C				
HCM 95th %tile Q(veh)	0.7	0	_	_	0.2	-	_	1.1				
		V. ,				V. <u>L</u>							

Intersection							
Int Delay, s/veh	1.2						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		4	î,		¥		
Traffic Vol, veh/h	24	296	358	72	26	25	
Future Vol, veh/h	24	296	358	72	26	25	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	-	-	-	-	0	-	
Veh in Median Storage	,# -	0	0	-	0	-	
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	26	322	389	78	28	27	
							· ·
Major/Minor I	Major1	<u> </u>	Major2	<u> </u>	/linor2		
Conflicting Flow All	467	0	-	0	802	428	
Stage 1	-	_	-	_	428	-	
Stage 2	-	-	-	-	374		
Critical Hdwy	4.12	-	_	-	6.42	6.22	
Critical Hdwy Stg 1	-	-	-	-	5.42	-	
Critical Hdwy Stg 2	-	-	-	-	5.42	-	
Follow-up Hdwy	2.218	-	-	-	3.518		
Pot Cap-1 Maneuver	1094	-	-	_	353	627	
Stage 1	-	-	-	_	657	-	
Stage 2	-	-	-	-	696	-	
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuver	1094	-	-	-	343	627	
Mov Cap-2 Maneuver	-	-	-	-	343	-	<u> </u>
Stage 1	-	-	-	-	638	-	
Stage 2	-	-	-	-	696	-	
Approach	EB		WB		SB		
HCM Control Delay, s	0.6		0		14.3		
HCM LOS					В		
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR	SBLn1	
Capacity (veh/h)		1094	-	-	-	441	
HCM Lane V/C Ratio		0.024	_	_	_	0.126	
HCM Control Delay (s)		8.4	0	-	_	14.3	
HCM Lane LOS		A	A	_	_	В	
HCM 95th %tile Q(veh))	0.1	-	-	-	0.4	
70 4(1011)							

Intersection													
Int Delay, s/veh	5.8												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		44			4			44			4		
Traffic Vol, veh/h	1	25	14	11	39	5	8	20	6	17	51	12	
Future Vol, veh/h	1	25	14	11	39	5	8	20	6	17	51	12	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	-	-	-	-	-	7	-	
Veh in Median Storage	, # -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	1	27	15	12	42	5	9	22	7	18	55	13	
Major/Minor I	Major1			Major2			/linor1			Minor2			
Conflicting Flow All	47	0	0	42	0	0	140	108	35	120	113	45	
Stage 1		-	-	-	-	-	37	37	-	69	69	-	
Stage 2	_	_	_	_	_		103	71	-	51	44	_	
Critical Hdwy	4.12	_	-	4.12	_		7.12	6.52	6.22	7.12	6.52	6.22	
Critical Hdwy Stg 1	_	-	-	_	-	-	6.12	5.52	-	6.12	5.52	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52		6.12	5.52	-	
Follow-up Hdwy	2.218	-	-	2.218	-	-			3.318		4.018	3.318	
Pot Cap-1 Maneuver	1560	-	-	1567	-	-	830	782	1038	855	777	1025	
Stage 1	-	-	-		-	_	978	864	-	941	837	-	
Stage 2	-	-	7	-	-	-	903	836	-	962	858	-	
Platoon blocked, %		-	-		77-	-							
Mov Cap-1 Maneuver	1560	-	-	1567	-	-	769	775	1038	826	770	1025	
Mov Cap-2 Maneuver	-	-	-		-	-	769	775	-	826	770	-	
Stage 1	-	-	-	-	-	-	977	863	-	940	830	-	
Stage 2	-		-	-	-	-	825	829	-	931	857	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	0.2			1.5			9.7			10			
HCM LOS							A			В			
Minor Lane/Major Mvm	nt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR :	SBLn1				
Capacity (veh/h)		810	1560			1567			812				
HCM Lane V/C Ratio			0.001	_	_	0.008	_	_	0.107				
HCM Control Delay (s)		9.7	7.3	0	-	7.3	0		10				
HCM Lane LOS		9.7 A	7.3 A	A	_	7.3 A	A	<u> </u>	В				
HCM 95th %tile Q(veh)	\	0.1	0	-	_	0	-	_	0.4				
HOW JOHN JOHN GUVEN		0.1	U			U	_	_	0.7				

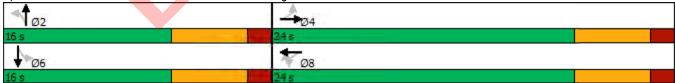
Intersection													
Int Delay, s/veh	6.3												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		44			4			44			4		
Traffic Vol, veh/h	5	25	18	1	28	4	6	34	7	25	44	21	
Future Vol, veh/h	5	25	18	1	28	4	6	34	7	25	44	21	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2		2	2	
Mvmt Flow	5	27	20	1	30	4	7	37	8	27	48	23	
Major/Minor I	Major1		ı	Major2			Minor1			Minor2			
Conflicting Flow All	34	0	0	47	0	0	117	83	37	104	91	32	
Stage 1	-	-	-	- T/	-	-	47	47	-	34	34	-	
Stage 2	_	_	_	<u>-</u>	_	<u>-</u>	70	36		70	57	_	
Critical Hdwy	4.12	_	_	4.12	_	-	7.12	6.52	6.22	7.12	6.52	6.22	
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Critical Hdwy Stg 2	-	-	_	-	_	-	6.12	5.52		6.12	5.52	-	
Follow-up Hdwy	2.218	-	-	2.218	_	-			3.318		4.018	3.318	
Pot Cap-1 Maneuver	1578	_	_	1560	_	_	859	807	1035	876	799	1042	
Stage 1	_	-	-		-	_	967	856	-	982	867	-	
Stage 2	-	-	-	-	-	-	940	865	-	940	847	-	
Platoon blocked, %		-	-		7 -	-							
Mov Cap-1 Maneuver	1578	-	-	1560	-	-	799	804	1035	837	796	1042	
Mov Cap-2 Maneuver	-	-	-	_	-	-	799	804	-	837	796	-	
Stage 1	-	-	-	-	-	-	964	853	-	979	866	-	
Stage 2	-		-	-	-	-	868	864	-	890	844	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	0.8			0.2			9.6			9.8			
HCM LOS	0.0			0.2			3.0 A			3.0 A			
1.5.11.200							, ,						
Minor Lane/Major Mvm	t	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR :	SBI n1				
Capacity (veh/h)		831	1578			1560			855				
HCM Lane V/C Ratio		0.061	0.003	-	_	0.001	_		0.114				
HCM Control Delay (s)		9.6	7.3	0	-	7.3	0	_	9.8				
HCM Lane LOS		9.0 A	7.5 A	A	_	7.5 A	A	_	9.0 A				
HCM 95th %tile Q(veh)		0.2	0	-		0	-	_	0.4				
HOW JOHN JOHN WINE WIVELL		0.2	U			U		_	0.7				

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Lane Group	EBL	EBT	EBR	EBR2	WBL2	WBL	WBT	WBR	NBL	NBT	NBR	SBL
Lane Configurations		4					4			4		
Traffic Volume (vph)	7	316	5	1	12	3	216	17	3	28	13	15
Future Volume (vph)	7	316	5	1	12	3	216	17	3	28	13	15
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00	1.00
Frt		0.998					0.991			0.960		
Flt Protected		0.999					0.997			0.997		
Satd. Flow (prot)	0	1856	0	0	0	0	1837	0	0	1766	0	0
Flt Permitted		0.989					0.964			0.988		J
Satd. Flow (perm)	0	1837	0	0	0	0	1774	0	0	1749	0	0
Right Turn on Red	U	1007	0	Yes	- U	U	1117	Yes	0	1745	Yes	U
Satd. Flow (RTOR)				103			12	103		14	103	
Link Speed (mph)		25					25			25		
Link Distance (ft)		458					415			336		
Travel Time (s)		12.5					11.3			9.2		
Confl. Peds. (#/hr)	10	12.0	10	10	10	10	11.0	10	10	J. <u>Z</u>	10	10
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	8	343	5	1	13	3	235	18	3	30	14	16
Shared Lane Traffic (%)	- U	0-10	<u> </u>	ı	10	J	200	10	<u> </u>	30	17	10
Lane Group Flow (vph)	0	357	0	0	0	0	269	0	0	47	0	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Right	Left	Left	Left	Right	Left	Left	Right	Left
Median Width(ft)	Leit	0	rtigiit	Tagrit	Leit	Leit	0	rtigrit	Leit	0	rtigrit	Leit
Link Offset(ft)		0					0			0		
Crosswalk Width(ft)		16		<u>'</u>			16			16		
Two way Left Turn Lane		10					10			10		
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	1.00	1.00	9	9	15	1.00	1.00	9	1.00	1.00	9	1.00
Number of Detectors	1	2	J	<u> </u>	1	1	2	<u> </u>	1	2	<u> </u>	1
Detector Template	Left	Thru			Left	Left	Thru		Left	Thru		Left
Leading Detector (ft)	20	100			20	20	100		20	100		20
Trailing Detector (ft)	0	0			0	0	0		0	0		0
Detector 1 Position(ft)	0	0			0	0	0		0	0		0
Detector 1 Size(ft)	20	6			20	20	6		20	6		20
Detector 1 Type	CI+Ex	CI+Ex			Cl+Ex	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex
Detector 1 Channel	OIILX	OI.LX			OITEX	OITEX	OIILX		OIILX	OIILX		OILLX
Detector 1 Extend (s)	0.0	0.0			0.0	0.0	0.0		0.0	0.0		0.0
Detector 1 Queue (s)	0.0	0.0			0.0	0.0	0.0		0.0	0.0		0.0
Detector 1 Delay (s)	0.0	0.0			0.0	0.0	0.0		0.0	0.0		0.0
Detector 2 Position(ft)	0.0	94			0.0	0.0	94		0.0	94		0.0
Detector 2 Size(ft)		6					6			6		
Detector 2 Type		Cl+Ex					CI+Ex			Cl+Ex		
Detector 2 Type Detector 2 Channel		OITEX					OIILX			OITEX		
Detector 2 Extend (s)		0.0					0.0			0.0		
Turn Type	Perm	NA			Perm	Perm	NA		Perm	NA		Perm
Protected Phases	1 (1111	4			i Gilli	i Gilli	8		1 GIIII	2		Cilli
Permitted Phases	4	T			8	8	<u> </u>		2			6
Detector Phase	4	4			8	8	8		2	2		6
23.00.01 1 11000	7	7			U	J	J		_	_		9



Lanes, Volumes, Timings 7: Park Dr & Franklin Ave & Washington Blvd

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Lane Group	EBL	EBT	EBR	EBR2	WBL2	WBL	WBT	WBR	NBL	NBT	NBR	SBL
Switch Phase												
Minimum Initial (s)	5.0	5.0			5.0	5.0	5.0		5.0	5.0		5.0
Minimum Split (s)	14.0	14.0			14.0	14.0	14.0		14.0	14.0		14.0
Total Split (s)	24.0	24.0			24.0	24.0	24.0		16.0	16.0		16.0
Total Split (%)	60.0%	60.0%			60.0%	60.0%	60.0%		40.0%	40.0%		40.0%
Maximum Green (s)	18.0	18.0			18.0	18.0	18.0		10.0	10.0		10.0
Yellow Time (s)	4.5	4.5			4.5	4.5	4.5		4.5	4.5		4.5
All-Red Time (s)	1.5	1.5			1.5	1.5	1.5		1.5	1.5		1.5
Lost Time Adjust (s)		0.0					0.0			0.0		
Total Lost Time (s)		6.0					6.0			6.0		
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0			3.0	3.0	3.0		3.0	3.0		3.0
Recall Mode	None	None			None	None	None		Max	Max		None
Walk Time (s)	7.0	7.0			7.0	7.0	7.0		7.0	7.0		7.0
Flash Dont Walk (s)	11.0	11.0			11.0	11.0	11.0		11.0	11.0		11.0
Pedestrian Calls (#/hr)	0	0			0	0	0		0	0		0
Act Effct Green (s)		13.2					13.2			18.1		
Actuated g/C Ratio		0.30					0.30			0.42		
v/c Ratio		0.64					0.49			0.06		
Control Delay		18.6					14.8			7.6		
Queue Delay		0.0					0.0			0.0		
Total Delay		18.6					14.8			7.6		
LOS		В					В			Α		
Approach Delay		18.6					14.8			7.6		
Approach LOS		В					В			Α		
Intersection Summary												
Area Type:	Other											
Cycle Length: 40												
Actuated Cycle Length: 43	3.4											
Natural Cycle: 40												
Control Type: Actuated-U	ncoordinated											
Maximum v/c Ratio: 0.64												
Intersection Signal Delay:					ntersectio							
Intersection Capacity Utiliz	zation 54.7%			10	CU Level	of Service	e A					
Analysis Period (min) 15												
Splits and Phases: 7: P	ark Dr & Fra	nklin Ave	& Washir	ngton Blv	d							



Lanes, Volumes, Timings 7: Park Dr & Franklin Ave & Washington Blvd



Lane Group	SBT	SBR SBR	2
Switch Phase			
Minimum Initial (s)	5.0		
Minimum Split (s)	14.0		
Total Split (s)	16.0		
Total Split (%)	40.0%		
Maximum Green (s)	10.0		
Yellow Time (s)	4.5		
All-Red Time (s)	1.5		
Lost Time Adjust (s)	0.0		
Total Lost Time (s)	6.0		
Lead/Lag			
Lead-Lag Optimize?			
Vehicle Extension (s)	3.0		
Recall Mode	None		
Walk Time (s)	7.0		
Flash Dont Walk (s)	11.0		
Pedestrian Calls (#/hr)	0		
Act Effct Green (s)	18.1		
Actuated g/C Ratio	0.42		
v/c Ratio	0.07		
Control Delay	8.1		
Queue Delay	0.0		
Total Delay	8.1		
LOS	Α		
Approach Delay	8.1		
Approach LOS	Α		
Intersection Summary			

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		ર્ન	7		ર્ન	7		ર્ન	7		ર્ન	7
Traffic Volume (vph)	53	256	12	5	169	90	7	190	15	20	150	78
Future Volume (vph)	53	256	12	5	169	90	7	190	15	20	150	78
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		75	0		75	0		75	0		75
Storage Lanes	0		1	0		1	0		1	0		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00	0.97		1.00	0.97		1.00	0.96		1.00	0.97
Frt			0.850			0.850			0.850			0.850
Flt Protected		0.992			0.999			0.998			0.994	
Satd. Flow (prot)	0	1848	1583	0	1861	1583	0	1859	1583	0	1852	1583
Flt Permitted		0.903			0.986			0.988			0.949	
Satd. Flow (perm)	0	1679	1528	0	1836	1528	0	1840	1521	0	1765	1528
Right Turn on Red	•		Yes	-	,,,,,	Yes			Yes			Yes
Satd. Flow (RTOR)			61			99			61	•		86
Link Speed (mph)		25	•		25			25	•		25	
Link Distance (ft)		450			2667			1328			1233	
Travel Time (s)		12.3			72.7			36.2			33.6	
Confl. Peds. (#/hr)	10		10	10	. =	10	10		13	13		10
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Adj. Flow (vph)	58	281	13	5	186	99	8	209	16	22	165	86
Shared Lane Traffic (%)	00	201			100			200			100	00
Lane Group Flow (vph)	0	339	13	0	191	99	0	217	16	0	187	86
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0	1.1.3.11		0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2	1	1	2	1	1	2	1
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Leading Detector (ft)	20	100	20	20	100	20	20	100	20	20	100	20
Trailing Detector (ft)	0	0	0	0	0	0	0	0	0	0	0	0
Detector 1 Position(ft)	0	0	0	0	0	0	0	0	0	0	0	0
Detector 1 Size(ft)	20	6	20	20	6	20	20	6	20	20	6	20
Detector 1 Type	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	Cl+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex
Detector 1 Channel	V. 21.	J	J/	J	J	J/.	J	J/.	J/	J	J	J/
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(ft)	0.0	94	0.0	0.0	94	0.0	0.0	94	0.0	0.0	94	0.0
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		CI+Ex			CI+Ex			CI+Ex			Cl+Ex	
Detector 2 Channel		OI LX			OI LX			OI LA			OI LX	
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA	Perm	Perm	NA	Perm	Perm	NA	Perm	Perm	NA	Perm
. 3 , p 3	. 51111	. 1/ 1	. 0.111	. 0.111	. 1/ 1	. 0.111	. 0.111	1 1/ 1	. 0.111	. 0.111	1 1/ 1	. 0.111

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Protected Phases		4			8			2			6	
Permitted Phases	4		4	8		8	2		2	6		6
Detector Phase	4	4	4	8	8	8	2	2	2	6	6	6
Switch Phase												
Minimum Initial (s)	1.0	1.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Total Split (s)	30.0	30.0	30.0	30.0	30.0	30.0	24.0	24.0	24.0	24.0	24.0	24.0
Total Split (%)	55.6%	55.6%	55.6%	55.6%	55.6%	55.6%	44.4%	44.4%	44.4%	44.4%	44.4%	44.4%
Maximum Green (s)	24.0	24.0	24.0	24.0	24.0	24.0	18.0	18.0	18.0	18.0	18.0	18.0
Yellow Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
All-Red Time (s)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Lost Time Adjust (s)		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0
Total Lost Time (s)		6.0	6.0		6.0	6.0		6.0	6.0		6.0	6.0
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	None	None	None	None	Max	Max	Max	Max	Max	Max
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Flash Dont Walk (s)	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Pedestrian Calls (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Act Effct Green (s)		14.0	14.0		14.0	14.0		18.2	18.2		18.2	18.2
Actuated g/C Ratio		0.32	0.32		0.32	0.32		0.41	0.41		0.41	0.41
v/c Ratio		0.64	0.02		0.33	0.18		0.29	0.02		0.26	0.13
Control Delay		18.6	0.1		12.7	3.7		11.5	0.1		11.3	3.9
Queue Delay		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0
Total Delay		18.6	0.1		12.7	3.7		11.5	0.1		11.3	3.9
LOS		В	Α		В	Α		В	Α		В	Α
Approach Delay		18.0			9.6			10.7			9.0	
Approach LOS		В			A			В			Α	
		_										
Intersection Summary												
Area Type:	Other											
Cycle Length: 54												
Actuated Cycle Length: 44.	.3											
Natural Cycle: 40												
Control Type: Semi Act-Un	coord											
Maximum v/c Ratio: 0.64												
Intersection Signal Delay:					ntersectio							
Intersection Capacity Utilization	ation 66.9%			I	CU Level	of Service	e C					
Analysis Period (min) 15												
Splits and Phases: 8: La	throp Ave 8	Washing	ton Blvd									
↑ Ø2				1	₽Ø4							
24 s				30 s								
↓ Ø6				¥	Ø8							

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	f a		*	1		7	1		ሻ	4	
Traffic Volume (vph)	28	388	56	56	342	80	68	276	42	93	315	60
Future Volume (vph)	28	388	56	56	342	80	68	276	42	93	315	60
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	100		0	100		0	85		0	85		0
Storage Lanes	1		0	1		0	1		0	1		0
Taper Length (ft)	115			115			100			70		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	0.99		0.99	0.99		0.99	0.99		0.98	0.99	
Frt		0.981			0.972			0.980			0.976	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	1787	0	1770	1769	0	1770	1813	0	1770	1807	0
Flt Permitted	0.337			0.262			0.355			0.367		
Satd. Flow (perm)	623	1787	0	484	1769	0	656	1813	0	672	1807	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		10			17			11			14	
Link Speed (mph)		30			30			25			25	
Link Distance (ft)		824			2952			527			2095	
Travel Time (s)		18.7			67.1			14.4			57.1	
Confl. Peds. (#/hr)	10		11	11		10	10		16	16		10
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles (%)	2%	4%	2%	2%	4%	2%	2%	2%	2%	2%	2%	2%
Adj. Flow (vph)	29	408	59	59	360	84	72	291	44	98	332	63
Shared Lane Traffic (%)												
Lane Group Flow (vph)	29	467	0	59	444	0	72	335	0	98	395	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12	, i		12	J		12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		CI+Ex			CI+Ex			CI+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Type	pm+pt	NA		pm+pt	NA		pm+pt	NA		pm+pt	NA	
Protected Phases	5	2		1	6		7	4		3	8	
Permitted Phases	2			6			4			8		
Detector Phase	5	2		1	6		7	4		3	8	
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	9.5	11.0		9.5	11.0		9.5	11.0		9.5	11.0	
Total Split (s)	9.5	25.0		9.5	25.0		9.5	25.0		9.5	25.0	
Total Split (%)	13.8%	36.2%		13.8%	36.2%		13.8%	36.2%		13.8%	36.2%	
Maximum Green (s)	6.0	19.0		6.0	19.0		6.0	19.0		6.0	19.0	
Yellow Time (s)	3.5	4.5		3.5	4.5		3.5	4.5		3.5	4.5	
All-Red Time (s)	0.0	1.5		0.0	1.5		0.0	1.5		0.0	1.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	3.5	6.0		3.5	6.0		3.5	6.0		3.5	6.0	
Lead/Lag	Lead	Lag		Lead	Lag		Lead	Lag		Lead	Lag	
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes	Yes		Yes	Yes	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	Max		None	Max		None	None		None	None	
Walk Time (s)		7.0			7.0			7.0			7.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effct Green (s)	25.6	19.8		26.2	21.5		23.0	15.8		23.8	18.0	
Actuated g/C Ratio	0.42	0.33		0.43	0.36		0.38	0.26		0.39	0.30	
v/c Ratio	0.08	0.79		0.17	0.69		0.20	0.69		0.26	0.72	
Control Delay	11.2	34.4		12.1	27.6		12.2	29.1		12.8	29.6	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	11.2	34.4		12.1	27.6		12.2	29.1		12.8	29.6	
LOS	В	С		В	C		В	С		В	С	
Approach Delay		33.0			25.8			26.1			26.3	
Approach LOS		С			C			С			С	

Area Type: Other

Cycle Length: 69

Actuated Cycle Length: 60.3

Natural Cycle: 70

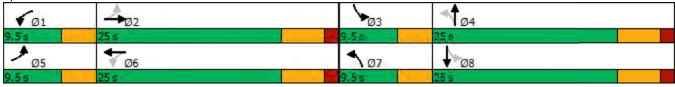
Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.79

Intersection Signal Delay: 27.9 Intersection LOS: C
Intersection Capacity Utilization 69.3% ICU Level of Service C

Analysis Period (min) 15

Splits and Phases: 13: Thatcher Ave & Lake St



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	, Y	*	7	,		7	, j	1		, j	€	
Traffic Volume (vph)	40	408	75	120	317	29	100	227	31	54	216	61
Future Volume (vph)	40	408	75	120	317	29	100	227	31	54	216	61
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	100		120	75		120	75		0	75		0
Storage Lanes	1		1	1		1	1		0	1		0
Taper Length (ft)	105			105			60			75		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99		0.92	0.98		0.95	0.98	1.00		0.99	0.99	
Frt			0.850			0.850		0.982			0.967	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	1827	1583	1770	1827	1583	1770	1823	0	1770	1782	0
Flt Permitted	0.555			0.311			0.421			0.558		
Satd. Flow (perm)	1020	1827	1458	568	1827	1507	771	1823	0	1029	1782	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			116			116		9		•	19	
Link Speed (mph)		30			30			25			25	
Link Distance (ft)		2952			1318			470			1333	
Travel Time (s)		67.1			30.0			12.8			36.4	
Confl. Peds. (#/hr)	11	01.1	23	23	00.0	11	11	12.0	10	10	00.1	11
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Heavy Vehicles (%)	2%	4%	2%	2%	4%	2%	2%	2%	2%	2%	2%	2%
Adj. Flow (vph)	40	412	76	121	320	29	101	229	31	55	218	62
Shared Lane Traffic (%)				121	020		101		<u> </u>		2.0	02
Lane Group Flow (vph)	40	412	76	121	320	29	101	260	0	55	280	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	=0.1	12		=0.1	12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2	1	1	2		1	2	
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru		Left	Thru	
Leading Detector (ft)	20	100	20	20	100	20	20	100		20	100	
Trailing Detector (ft)	0	0	0	0	0	0	0	0		0	0	
Detector 1 Position(ft)	0	0	0	0	0	0	0	0		0	0	
Detector 1 Size(ft)	20	6	20	20	6	20	20	6		20	6	
Detector 1 Type	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	Cl+Ex		CI+Ex	Cl+Ex	
Detector 1 Channel	OI. LX	OI · LX	OI LX	OI · LX	OI LX	OI LX	OI · LX	OI LX		OI LX	OI LX	
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 2 Position(ft)	0.0	94	0.0	0.0	94	0.0	0.0	94		0.0	94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			CI+Ex			CI+Ex	
Detector 2 Channel		CITEX			OITEX			CITEX			CITEX	
		0.0			0.0			0.0			0.0	
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Type	pm+pt	NA	custom	pm+pt	NA	custom	pm+pt	NA		pm+pt	NA	
Protected Phases	5	2		1	6		7	4		3	8	
Permitted Phases	2		4	6		8	4			8		
Detector Phase	5	2	4	1	6	8	7	4		3	8	
Switch Phase												
Minimum Initial (s)	4.0	5.0	5.0	4.0	5.0	5.0	4.0	5.0		4.0	5.0	
Minimum Split (s)	10.0	14.0	14.0	10.0	14.0	14.0	10.0	14.0		10.0	14.0	
Total Split (s)	10.5	26.0	47.0	10.5	26.0	47.0	10.5	47.0		10.5	47.0	
Total Split (%)	11.2%	27.7%	50.0%	11.2%	27.7%	50.0%	11.2%	50.0%		11.2%	50.0%	
Maximum Green (s)	7.0	20.0	41.0	7.0	20.0	41.0	7.0	41.0		7.0	41.0	
Yellow Time (s)	3.5	4.5	4.5	3.5	4.5	4.5	3.5	4.5		3.5	4.5	
All-Red Time (s)	0.0	1.5	1.5	0.0	1.5	1.5	0.0	1.5		0.0	1.5	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Lost Time (s)	3.5	6.0	6.0	3.5	6.0	6.0	3.5	6.0		3.5	6.0	
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag		Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	
Recall Mode	None	Max	None	None	Max	None	None	None		None	None	
Walk Time (s)		7.0	7.0		7.0	7.0		7.0			7.0	
Flash Dont Walk (s)		11.0	11.0		11.0	11.0		11.0			11.0	
Pedestrian Calls (#/hr)		0	0		0	0		0			0	
Act Effct Green (s)	28.3	21.0	17.2	30.1	25.0	15.1	23.6	17.2		22.7	15.1	
Actuated g/C Ratio	0.44	0.33	0.27	0.47	0.39	0.24	0.37	0.27		0.35	0.24	
v/c Ratio	0.08	0.69	0.16	0.30	0.45	0.07	0.26	0.52		0.12	0.65	
Control Delay	11.4	30.7	2.6	13.4	21.1	0.3	13.9	25.1		12.4	29.2	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Delay	11.4	30.7	2.6	13.4	21.1	0.3	13.9	25.1		12.4	29.2	
LOS	В	С	Α	В	C	Α	В	С		В	С	
Approach Delay		25.2			17.8			22.0			26.5	
Approach LOS		С			В			С			С	

Area Type: Other

Cycle Length: 94

Actuated Cycle Length: 64.1

Natural Cycle: 60

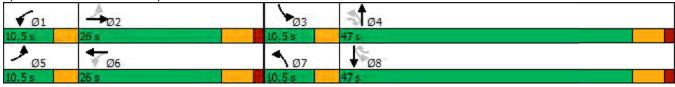
Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.69

Intersection Signal Delay: 22.7 Intersection LOS: C
Intersection Capacity Utilization 65.7% ICU Level of Service C

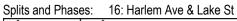
Analysis Period (min) 15

Splits and Phases: 14: Lathrop Ave & Lake St



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	Ť	^	7	7	1		ሻ	↑ ↑		ሻ	十十	7
Traffic Volume (vph)	100	230	149	82	192	50	183	1050	68	40	1170	115
Future Volume (vph)	100	230	149	82	192	50	183	1050	68	40	1170	115
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	240		195	140		0	230		0	220		600
Storage Lanes	1		1	1		0	1		0	1		1
Taper Length (ft)	110			60			90			90		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	1.00
Ped Bike Factor	0.97		0.93	0.97	0.98			1.00				0.86
Frt			0.850		0.969			0.991				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	1827	1583	1770	1749	0	1736	3397	0	1736	3438	1553
Flt Permitted	0.289			0.320			0.134			0.184		
Satd. Flow (perm)	521	1827	1477	579	1749	0	245	3397	0	336	3438	1339
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			157		9			7		•		121
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		562			578			877			703	
Travel Time (s)		12.8			13.1			19.9			16.0	
Confl. Peds. (#/hr)	30		25	25		30	32		10	10		32
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles (%)	2%	4%	2%	2%	4%	2%	4%	5%	4%	4%	5%	4%
Adj. Flow (vph)	105	242	157	86	202	53	193	1105	72	42	1232	121
Shared Lane Traffic (%)												
Lane Group Flow (vph)	105	242	157	86	255	0	193	1177	0	42	1232	121
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12	1 9.		12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2		1	2	-	1	2	1
Detector Template	Left	Thru	Right	Left	Thru		Left	Thru		Left	Thru	Right
Leading Detector (ft)	20	100	20	20	100		20	100		20	100	20
Trailing Detector (ft)	0	0	0	0	0		0	0		0	0	0
Detector 1 Position(ft)	0	0	0	0	0		0	0		0	0	0
Detector 1 Size(ft)	20	6	20	20	6		20	6		20	6	20
Detector 1 Type	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex	CI+Ex
Detector 1 Channel	OI. LX	OI LX	OITEX	OI LX	OI · LX		OI LX	OI LX		OI · LX	OI · LX	OI LX
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	0.0
Detector 2 Position(ft)	0.0	94	0.0	0.0	94		0.0	94		0.0	94	0.0
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			CI+Ex			CI+Ex			Cl+Ex	
Detector 2 Channel		OITLX			OLITEX			OLITEA			OLITEX	
		0.0			0.0			0.0			0.0	
Detector 2 Extend (s)		0.0			0.0			U.U			0.0	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Type	pm+pt	NA	Perm	pm+pt	NA		pm+pt	NA		pm+pt	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases	4		4	8			2			6		6
Detector Phase	7	4	4	3	8		5	2		1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0		5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	10.0	14.0	14.0	10.0	14.0		10.0	14.0		10.0	14.0	14.0
Total Split (s)	10.5	36.0	36.0	10.5	36.0		15.5	73.0		15.5	73.0	73.0
Total Split (%)	7.8%	26.7%	26.7%	7.8%	26.7%		11.5%	54.1%		11.5%	54.1%	54.1%
Maximum Green (s)	7.0	30.0	30.0	7.0	30.0		12.0	67.0		12.0	67.0	67.0
Yellow Time (s)	3.5	4.5	4.5	3.5	4.5		3.5	4.5		3.5	4.5	4.5
All-Red Time (s)	0.0	1.5	1.5	0.0	1.5		0.0	1.5		0.0	1.5	1.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	3.5	6.0	6.0	3.5	6.0		3.5	6.0		3.5	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag		Lead	Lag		Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes		Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None	None	None	None		None	C-Max		None	C-Max	C-Max
Walk Time (s)		7.0	7.0		7.0			7.0			7.0	7.0
Flash Dont Walk (s)		11.0	11.0		11.0			11.0			11.0	11.0
Pedestrian Calls (#/hr)		0	0		0			0			0	0
Act Effct Green (s)	33.3	23.8	23.8	33.3	23.8		91.2	80.4		83.3	74.1	74.1
Actuated g/C Ratio	0.25	0.18	0.18	0.25	0.18		0.68	0.60		0.62	0.55	0.55
v/c Ratio	0.54	0.75	0.40	0.42	0.81		0.67	0.58		0.15	0.65	0.15
Control Delay	48.3	67.1	9.6	42.8	70.5		22.9	19.7		10.1	24.6	3.5
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	8.0	0.0
Total Delay	48.3	67.1	9.6	42.8	70.5		22.9	19.7		10.1	25.4	3.5
LOS	D	E	Α	D	Ę		С	В		В	С	Α
Approach Delay		45.3			63.5			20.1			23.0	
Approach LOS		D			E			С			С	
Intersection Summary												
Area Type:	Other											
Cycle Length: 135												
Actuated Cycle Length: 13	5											
Offset: 59 (44%), Reference	ced to phase	2:NBTL	and 6:SB	TL, Start	of Green							
Natural Cycle: 75												
Control Type: Actuated-Co	ordinated											
Maximum v/c Ratio: 0.81												
Intersection Signal Delay:	28.8			lr	ntersection	n LOS: C						
Intersection Capacity Utiliz	ation 79.2%			10	CU Level	of Service	e D					
Analysis Period (min) 15												





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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	4		ř	1>		7	^		ሻ	4	
Traffic Volume (vph)	118	280	52	34	250	35	80	250	54	88	382	95
Future Volume (vph)	118	280	52	34	250	35	80	250	54	88	382	95
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	75		0	75		0	100		0	0		0
Storage Lanes	1		0	1		0	1		0	1		0
Taper Length (ft)	180			50			125			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	0.99		0.99	1.00		0.99	0.99		0.99	0.99	
Frt		0.977			0.982			0.974			0.970	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	1809	0	1770	1820	0	1770	1801	0	1770	1793	0
Flt Permitted	0.438			0.350			0.300			0.499		
Satd. Flow (perm)	807	1809	0	646	1820	0	555	1801	0	919	1793	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		12			9			16			18	
Link Speed (mph)		35			25			25			25	
Link Distance (ft)		923			1595			2095			1328	
Travel Time (s)		18.0			43.5			57.1			36.2	
Confl. Peds. (#/hr)	10		10	10		10	10		10	10		10
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Adj. Flow (vph)	130	308	57	37	275	38	88	275	59	97	420	104
Shared Lane Traffic (%)												
Lane Group Flow (vph)	130	365	0	37	313	0	88	334	0	97	524	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100	•	20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		CI+Ex			CI+Ex			CI+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		pm+pt	NA	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Protected Phases		4			8		5	2		1	6	
Permitted Phases	4			8			2			6		
Detector Phase	4	4		8	8		5	2		1	6	
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	14.0	14.0		14.0	14.0		11.0	14.0		11.0	14.0	
Total Split (s)	26.0	26.0		26.0	26.0		16.5	31.0		16.5	31.0	
Total Split (%)	35.4%	35.4%		35.4%	35.4%		22.4%	42.2%		22.4%	42.2%	
Maximum Green (s)	20.0	20.0		20.0	20.0		13.0	25.0		13.0	25.0	
Yellow Time (s)	4.5	4.5		4.5	4.5		3.5	4.5		3.5	4.5	
All-Red Time (s)	1.5	1.5		1.5	1.5		0.0	1.5		0.0	1.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	6.0	6.0		6.0	6.0		3.5	6.0		3.5	6.0	
Lead/Lag							Lead	Lag		Lead	Lag	
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		None	Max		None	Max	
Walk Time (s)	7.0	7.0		7.0	7.0			7.0			7.0	
Flash Dont Walk (s)	11.0	11.0		11.0	11.0			11.0			11.0	
Pedestrian Calls (#/hr)	0	0		0	0			0			0	
Act Effct Green (s)	16.5	16.5		16.5	16.5		33.6	25.5		33.9	25.6	
Actuated g/C Ratio	0.26	0.26		0.26	0.26		0.54	0.41		0.54	0.41	
v/c Ratio	0.61	0.75		0.22	0.64		0.20	0.45		0.16	0.70	
Control Delay	34.9	31.9		22.4	27.2		7.7	17.3		7.2	23.8	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	34.9	31.9		22.4	27.2		7.7	17.3		7.2	23.8	
LOS	С	C		С	C		Α	В		Α	С	
Approach Delay		32.7			26.7			15.3			21.2	
Approach LOS		С			C			В			С	
Intersection Summary												
Area Type:	Other											

Cycle Length: 73.5

Actuated Cycle Length: 62.6

Natural Cycle: 60

Control Type: Actuated-Uncoordinated

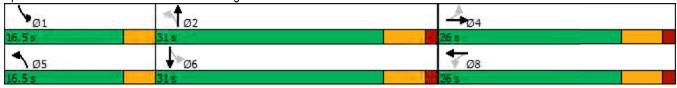
Maximum v/c Ratio: 0.75

Intersection Signal Delay: 23.9
Intersection Capacity Utilization 71.1%

Intersection LOS: C
ICU Level of Service C

Analysis Period (min) 15

Splits and Phases: 19: Thatcher Ave & Chicago Ave



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	1		7	f a		7	‡		ሻ	£	
Traffic Volume (vph)	72	333	68	37	300	34	45	223	57	39	226	15
Future Volume (vph)	72	333	68	37	300	34	45	223	57	39	226	15
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	90		0	90		0	75		0	75		0
Storage Lanes	1		0	1		0	1		0	1		0
Taper Length (ft)	90			100			115			115		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	0.99		0.99	1.00		0.99	0.99		0.98	1.00	
Frt		0.975			0.985			0.969			0.991	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	1805	0	1770	1828	0	1770	1784	0	1770	1842	0
Flt Permitted	0.453			0.356			0.601			0.578		
Satd. Flow (perm)	835	1805	0	658	1828	0	1106	1784	0	1051	1842	0
Right Turn on Red		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		20			11			24		•	6	
Link Speed (mph)		25			25			25			25	
Link Distance (ft)		1322			1339			747			1341	
Travel Time (s)		36.1			36.5			20.4			36.6	
Confl. Peds. (#/hr)	10	00.1	10	10	00.0	10	10	20	21	21	00.0	10
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Adj. Flow (vph)	77	354	72	39	319	36	48	237	61	41	240	16
Shared Lane Traffic (%)		001		00	010	00	10	201	V.		210	10
Lane Group Flow (vph)	77	426	0	39	355	0	48	298	0	41	256	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12	1.1.3.1.		12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2	-	1	2		1	2	-
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	Cl+Ex	
Detector 1 Channel	OITER	OI LX		OILEX	OI LX		OI LX	OI · EX		OI · EX	OFFER	
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)	0.0	94		0.0	94		0.0	94		0.0	94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			CI+Ex			CI+Ex			CI+Ex	
Detector 2 Channel		OITEX			OLITEX			OLICEX			Olick	
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
` '	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Turn Type	reiiii	IVA		Feiiii	IVA		FEIIII	INA		Fellii	IVA	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		
Detector Phase	4	4		8	8		2	2		6	6	
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	14.0	14.0		14.0	14.0		14.0	14.0		14.0	14.0	
Total Split (s)	33.0	33.0		33.0	33.0		31.0	31.0		31.0	31.0	
Total Split (%)	51.6%	51.6%		51.6%	51.6%		48.4%	48.4%		48.4%	48.4%	
Maximum Green (s)	27.0	27.0		27.0	27.0		25.0	25.0		25.0	25.0	
Yellow Time (s)	4.5	4.5		4.5	4.5		4.5	4.5		4.5	4.5	
All-Red Time (s)	1.5	1.5		1.5	1.5		1.5	1.5		1.5	1.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	6.0	6.0		6.0	6.0		6.0	6.0		6.0	6.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		Max	Max		Max	Max	
Walk Time (s)	7.0	7.0		7.0	7.0		7.0	7.0		7.0	7.0	
Flash Dont Walk (s)	11.0	11.0		11.0	11.0		11.0	11.0		11.0	11.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)	18.1	18.1		18.1	18.1		25.3	25.3		25.3	25.3	
Actuated g/C Ratio	0.33	0.33		0.33	0.33		0.46	0.46		0.46	0.46	
v/c Ratio	0.28	0.71		0.18	0.59		0.10	0.36		0.09	0.30	
Control Delay	16.0	22.2		14.7	18.9		11.5	12.1		11.5	12.2	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	16.0	22.2		14.7	18.9		11.5	12.1		11.5	12.2	
LOS	В	C		В	В		В	В		В	В	
Approach Delay		21.3			18.5			12.0			12.1	
Approach LOS		С			В			В			В	
Intersection Summary												
Area Type:	Other											
Cycle Length: 64	Otrici											
Actuated Cycle Length: 55.	5											
Natural Cycle: 40	0											
Control Type: Actuated-Und	coordinated											
Maximum v/c Ratio: 0.71	boordinated											
Intersection Signal Delay: 1	6.7			lr	ntersection	I OS: B						
Intersection Capacity Utiliza					CU Level		, C					
Analysis Period (min) 15	10011 00.070			10	JO Level (JI OCI VICE	, 0					
,	Π	0.01.	Δ.									
Splits and Phases: 21: La	athrop Ave	& Unicago	AVE									
™ø2					-04	1						
31 s					33 s							
1					+							
▼ Ø6					▼ Ø8	3						

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	*	7	ሻ	†	7	7	†		7	† }	
Traffic Volume (vph)	50	303	77	138	275	90	67	1017	71	88	1110	24
Future Volume (vph)	50	303	77	138	275	90	67	1017	71	88	1110	24
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	115		115	95		60	195		0	115		0
Storage Lanes	1		1	1		1	1		0	1		0
Taper Length (ft)	120			85			95			170		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	0.95
Ped Bike Factor	0.99		0.97	0.99		0.97		1.00			1.00	
Frt			0.850			0.850		0.990			0.997	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	1863	1583	1770	1863	1583	1770	3429	0	1770	3458	0
Flt Permitted	0.367			0.200			0.149			0.149		
Satd. Flow (perm)	677	1863	1532	370	1863	1532	278	3429	0	278	3458	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			87			87		8			2	
Link Speed (mph)		25			25			30			30	
Link Distance (ft)		1317			461			1347			1346	
Travel Time (s)		35.9			12.6			30.6			30.6	
Confl. Peds. (#/hr)	10		10	10		10	10		10	10		10
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	2%	4%	2%	2%	4%	2%
Adj. Flow (vph)	52	316	80	144	286	94	70	1059	74	92	1156	25
Shared Lane Traffic (%)												
Lane Group Flow (vph)	52	316	80	144	286	94	70	1133	0	92	1181	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12	, i		12	, i		12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2	1	1	2		1	2	
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru		Left	Thru	
Leading Detector (ft)	20	100	20	20	100	20	20	100		20	100	
Trailing Detector (ft)	0	0	0	0	0	0	0	0		0	0	
Detector 1 Position(ft)	0	0	0	0	0	0	0	0		0	0	
Detector 1 Size(ft)	20	6	20	20	6	20	20	6		20	6	
Detector 1 Type	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	Cl+Ex		CI+Ex	CI+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		CI+Ex			CI+Ex			CI+Ex			CI+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Type	pm+pt	NA	Perm	pm+pt	NA	Perm	pm+pt	NA		pm+pt	NA	
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases	4		4	8		8	2			6		
Detector Phase	7	4	4	3	8	8	5	2		1	6	
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0		5.0	5.0	
Minimum Split (s)	11.0	14.0	14.0	11.0	14.0	14.0	11.0	14.0		11.0	14.0	
Total Split (s)	13.5	33.0	33.0	13.5	33.0	33.0	13.5	66.0		13.5	66.0	
Total Split (%)	10.7%	26.2%	26.2%	10.7%	26.2%	26.2%	10.7%	52.4%		10.7%	52.4%	
Maximum Green (s)	10.0	27.0	27.0	10.0	27.0	27.0	10.0	60.0		10.0	60.0	
Yellow Time (s)	3.5	4.5	4.5	3.5	4.5	4.5	3.5	4.5		3.5	4.5	
All-Red Time (s)	0.0	1.5	1.5	0.0	1.5	1.5	0.0	1.5		0.0	1.5	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Lost Time (s)	3.5	6.0	6.0	3.5	6.0	6.0	3.5	6.0		3.5	6.0	
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag		Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	
Recall Mode	None	None	None	None	None	None	None	C-Max		None	C-Max	
Walk Time (s)		7.0	7.0		7.0	7.0		7.0			7.0	
Flash Dont Walk (s)		11.0	11.0		11.0	11.0		11.0			11.0	
Pedestrian Calls (#/hr)		0	0		0	0		0			0	
Act Effct Green (s)	35.2	24.8	24.8	38.9	28.4	28.4	74.4	64.4		76.2	66.8	
Actuated g/C Ratio	0.28	0.20	0.20	0.31	0.23	0.23	0.59	0.51		0.60	0.53	
v/c Ratio	0.20	0.86	0.22	0.65	0.68	0.23	0.28	0.65		0.35	0.64	
Control Delay	30.7	71.7	8.6	45.6	54.3	11.0	13.0	25.2		13.9	24.4	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Delay	30.7	71.7	8.6	45.6	54.3	11.0	13.0	25.2		13.9	24.4	
LOS	С	E	Α	D	D	В	В	С		В	С	
Approach Delay		55.7			44.1			24.5			23.7	
Approach LOS		E			D			С			С	
Intersection Summary												

Area Type: Other

Cycle Length: 126

Actuated Cycle Length: 126

Offset: 59 (47%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green

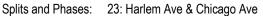
Natural Cycle: 80

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.86 Intersection Signal Delay: 31.2 Intersection Capacity Utilization 75.9%

Intersection LOS: C ICU Level of Service D

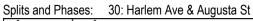
Analysis Period (min) 15

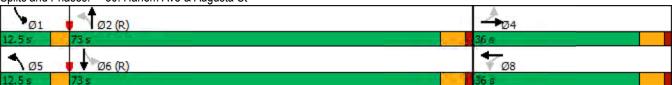




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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		7	∱ ⊅		, j	↑ ↑	
Traffic Volume (vph)	18	184	34	54	173	48	79	996	82	99	1134	31
Future Volume (vph)	18	184	34	54	173	48	79	996	82	99	1134	31
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		0	0		0	150		0	150		0
Storage Lanes	0		0	0		0	1		0	1		0
Taper Length (ft)	25			25			75			100		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	0.95
Ped Bike Factor		0.99			0.99			1.00			1.00	
Frt		0.980			0.976			0.989			0.996	
Flt Protected		0.996			0.990		0.950			0.950		
Satd. Flow (prot)	0	1810	0	0	1789	0	1770	3424	0	1770	3454	0
Flt Permitted		0.943			0.745		0.156			0.171		
Satd. Flow (perm)	0	1712	0	0	1343	0	291	3424	0	319	3454	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		7			8			11		•	3	
Link Speed (mph)		25			25			30			30	
Link Distance (ft)		1777			369			1346			1322	
Travel Time (s)		48.5			10.1			30.6			30.0	
Confl. Peds. (#/hr)	12		10	10		12	10	00.0	10	10		10
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	2%	4%	2%	2%	4%	2%
Adj. Flow (vph)	19	198	37	58	186	52	85	1071	88	106	1219	33
Shared Lane Traffic (%)	. •		<u> </u>									
Lane Group Flow (vph)	0	254	0	0	296	0	85	1159	0	106	1252	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			-15			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex	
Detector 1 Channel	OT EX	OI LX		OI LX	OI LX		OI LX	OI LX		OI LX	OI LX	
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)	0.0	94		0.0	94		0.0	94		0.0	94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		CI+Ex			CI+Ex			CI+Ex			CI+Ex	
Detector 2 Channel		OI. LX			ΟΙ· LΛ			OI · LX			OI · LX	
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Detector 2 Exterior (2)		0.0			0.0			0.0			0.0	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		pm+pt	NA	
Protected Phases		4			8		5	2		1	6	
Permitted Phases	4			8			2			6		
Detector Phase	4	4		8	8		5	2		1	6	
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	14.0	14.0		14.0	14.0		11.0	14.0		11.0	14.0	
Total Split (s)	36.0	36.0		36.0	36.0		12.5	73.0		12.5	73.0	
Total Split (%)	29.6%	29.6%		29.6%	29.6%		10.3%	60.1%		10.3%	60.1%	
Maximum Green (s)	30.0	30.0		30.0	30.0		9.0	67.0		9.0	67.0	
Yellow Time (s)	4.5	4.5		4.5	4.5		3.5	4.5		3.5	4.5	
All-Red Time (s)	1.5	1.5		1.5	1.5		0.0	1.5		0.0	1.5	
Lost Time Adjust (s)		0.0			0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)		6.0			6.0		3.5	6.0		3.5	6.0	
Lead/Lag							Lead	Lag		Lead	Lag	
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		None	C-Max		None	C-Max	
Walk Time (s)	7.0	7.0		7.0	7.0			7.0			7.0	
Flash Dont Walk (s)	11.0	11.0		11.0	11.0			11.0			11.0	
Pedestrian Calls (#/hr)	0	0		0	0			0			0	
Act Effct Green (s)		27.8			27.8		80.3	70.4		81.7	72.6	
Actuated g/C Ratio		0.23			0.23	7 .	0.66	0.58		0.67	0.60	
v/c Ratio		0.64			0.95		0.30	0.58		0.35	0.61	
Control Delay		48.7			83.3		9.4	18.1		9.8	18.1	
Queue Delay		0.0			0.0		0.0	0.0		0.0	0.0	
Total Delay		48.7			83.3		9.4	18.1		9.8	18.1	
LOS		D			F		Α	В		Α	В	
Approach Delay		48.7			83.3			17.5			17.5	
Approach LOS		D			F			В			В	
Intersection Summary												
Area Type:	Other											
Cycle Length: 121.5												
Actuated Cycle Length: 12												
Offset: 45 (37%), Reference	ed to phase	e 2:NBTL a	and 6:SB	TL, Start	of Green							
Natural Cycle: 60												
Control Type: Actuated-Co	ordinated											
Maximum v/c Ratio: 0.95												
Intersection Signal Delay: 2					ntersection							
Intersection Capacity Utiliz	ation 78.7%	1		10	CU Level of	of Service	Đ D					
Analysis Period (min) 15												





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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	ĵ.		,	ĵ»		,	↑ ↑		, N	∱ }	
Traffic Volume (vph)	60	182	80	128	230	18	130	838	94	69	1056	70
Future Volume (vph)	60	182	80	128	230	18	130	838	94	69	1056	70
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	110		0	90		0	180		0	140		0
Storage Lanes	1		0	1		0	1		0	1		0
Taper Length (ft)	75			115			95			90		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	0.95
Ped Bike Factor	0.99	0.99		0.99	1.00			0.99			1.00	
Frt		0.954			0.989			0.985			0.991	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	1760	0	1770	1838	0	1770	3408	0	1770	3433	0
Flt Permitted	0.335			0.222			0.120			0.211		
Satd. Flow (perm)	618	1760	0	410	1838	0	224	3408	0	393	3433	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		17			3			15		•	8	
Link Speed (mph)		25			25			30			30	
Link Distance (ft)		1311			467			1322			1352	
Travel Time (s)		35.8			12.7			30.0			30.7	
Confl. Peds. (#/hr)	10	00.0	10	10		10	10	00.0	10	10		10
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	2%	4%	2%	2%	4%	2%
Adj. Flow (vph)	66	200	88	141	253	20	143	921	103	76	1160	77
Shared Lane Traffic (%)					200		110	021	100		1100	
Lane Group Flow (vph)	66	288	0	141	273	0	143	1024	0	76	1237	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12		=0.1	12			12			12	
Link Offset(ft)		0			-15			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane											. •	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	Cl+Ex	
Detector 1 Channel	OILLX	OI · LX		OIILX	OI · LX		OITEX	OILX		OI LX	OI. LX	
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)	0.0	94		0.0	94		0.0	94		0.0	94	
Detector 2 Fosition(it) Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		CI+Ex			CI+Ex			CI+Ex			CI+Ex	
Detector 2 Channel		OLITEX			OITLA			OLYLX			OLITEX	
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Detector 2 Exterio (S)		0.0			0.0			0.0			0.0	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Type	pm+pt	NA		pm+pt	NA		pm+pt	NA		pm+pt	NA	
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases	4			8			2			6		
Detector Phase	7	4		3	8		5	2		1	6	
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	11.0	14.0		11.0	14.0		11.0	14.0		11.0	14.0	
Total Split (s)	11.5	26.0		11.5	26.0		13.5	63.0		13.5	63.0	
Total Split (%)	10.1%	22.8%		10.1%	22.8%		11.8%	55.3%		11.8%	55.3%	
Maximum Green (s)	8.0	20.0		8.0	20.0		10.0	57.0		10.0	57.0	
Yellow Time (s)	3.5	4.5		3.5	4.5		3.5	4.5		3.5	4.5	
All-Red Time (s)	0.0	1.5		0.0	1.5		0.0	1.5		0.0	1.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	3.5	6.0		3.5	6.0		3.5	6.0		3.5	6.0	
Lead/Lag	Lead	Lag		Lead	Lag		Lead	Lag		Lead	Lag	
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes	Yes		Yes	Yes	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		None	C-Max		None	C-Max	
Walk Time (s)		7.0			7.0			7.0			7.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effct Green (s)	29.4	19.5		30.8	21.9		72.0	62.1		68.6	58.8	
Actuated g/C Ratio	0.26	0.17		0.27	0.19		0.63	0.54		0.60	0.52	
v/c Ratio	0.28	0.92		0.68	0.77		0.55	0.55		0.23	0.70	
Control Delay	32.7	77.9		49.8	59.7		17.2	18.8		9.6	23.7	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	32.7	77.9		49.8	59.7		17.2	18.8		9.6	23.7	
LOS	С	E		D	E		В	В		Α	С	
Approach Delay		69.4			56.3			18.6			22.9	
Approach LOS		E			E			В			С	
Internation Comment												

Area Type: Other

Cycle Length: 114

Actuated Cycle Length: 114

Offset: 72 (63%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green

Natural Cycle: 80

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.92

Intersection Signal Delay: 30.7 Intersection LOS: C
Intersection Capacity Utilization 77.3% ICU Level of Service D

Analysis Period (min) 15

Splits and Phases: 36: Harlem Ave & Division St



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	^	7	ř	ተተ _ጉ		7	ħβ		7	∱ }	
Traffic Volume (vph)	58	1310	300	125	1591	58	244	121	66	180	200	72
Future Volume (vph)	58	1310	300	125	1591	58	244	121	66	180	200	72
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	300		0	115		0	200		0	165		0
Storage Lanes	1		1	1		0	1		0	1		0
Taper Length (ft)	180			125			85			70		
Lane Util. Factor	1.00	0.95	1.00	1.00	0.91	0.91	1.00	0.95	0.95	1.00	0.95	0.95
Ped Bike Factor	1.00		0.98	1.00	1.00		0.99	0.99		0.99	0.99	
Frt			0.850		0.995			0.947			0.960	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	3471	1583	1770	4962	0	1770	3328	0	1770	3380	0
Flt Permitted	0.222			0.222			0.578			0.629		
Satd. Flow (perm)	413	3471	1552	413	4962	0	1071	3328	0	1165	3380	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			313		13			7			2	
Link Speed (mph)		30			30			25			25	
Link Distance (ft)		1334			336			347			340	
Travel Time (s)		30.3			7.6			9.5			9.3	
Confl. Peds. (#/hr)	10		10	10		10	10		10	10		10
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Growth Factor	130%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	4%	2%	2%	4%	2%	2%	2%	2%	2%	2%	2%
Adj. Flow (vph)	79	1365	313	130	1657	60	254	126	69	188	208	75
Shared Lane Traffic (%)												
Lane Group Flow (vph)	79	1365	313	130	1717	0	254	195	0	188	283	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2		1	2		1	2	
Detector Template	Left	Thru	Right	Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100	20	20	100		20	100		20	100	
Trailing Detector (ft)	0	0	0	0	0		0	0		0	0	
Detector 1 Position(ft)	0	0	0	0	0		0	0		0	0	
Detector 1 Size(ft)	20	6	20	20	6		20	6		20	6	
Detector 1 Type	CI+Ex	Cl+Ex	CI+Ex	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			CI+Ex			CI+Ex			Cl+Ex	
Detector 2 Channel												

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA	Perm	Perm	NA		Perm	NA		Perm	NA	
Protected Phases		4			8			2			6	
Permitted Phases	4		4	8			2			6		
Detector Phase	4	4	4	8	8		2	2		6	6	
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	14.0	14.0	14.0	14.0	14.0		14.0	14.0		14.0	14.0	
Total Split (s)	24.0	24.0	24.0	24.0	24.0		24.0	24.0		24.0	24.0	
Total Split (%)	50.0%	50.0%	50.0%	50.0%	50.0%		50.0%	50.0%		50.0%	50.0%	
Maximum Green (s)	18.0	18.0	18.0	18.0	18.0		18.0	18.0		18.0	18.0	
Yellow Time (s)	4.5	4.5	4.5	4.5	4.5		4.5	4.5		4.5	4.5	
All-Red Time (s)	1.5	1.5	1.5	1.5	1.5		1.5	1.5		1.5	1.5	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	6.0	6.0	6.0	6.0	6.0		6.0	6.0		6.0	6.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None	None	None	None		C-Max	C-Max		C-Max	C-Max	
Walk Time (s)	7.0	7.0	7.0	7.0	7.0		7.0	7.0		7.0	7.0	
Flash Dont Walk (s)	11.0	11.0	11.0	11.0	11.0		11.0	11.0		11.0	11.0	
Pedestrian Calls (#/hr)	0	0	0	0	0		0	0		0	0	
Act Effct Green (s)	18.0	18.0	18.0	18.0	18.0		18.0	18.0		18.0	18.0	
Actuated g/C Ratio	0.38	0.38	0.38	0.38	0.38		0.38	0.38		0.38	0.38	
v/c Ratio	0.51	1.05	0.40	0.84	0.92		0.63	0.16		0.43	0.22	
Control Delay	27.6	57.6	3.5	63.6	24.7		21.7	10.0		15.1	10.8	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	27.6	57.6	3.5	63.6	24.7		21.7	10.0		15.1	10.8	
LOS	C	E	A	Е	C		С	В		В	В	
Approach Delay		46.6			27.5			16.6			12.5	
Approach LOS		D			С			В			В	
Intersection Summary												
Area Type:	Other											

Cycle Length: 48

Actuated Cycle Length: 48

Offset: 0 (0%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green

Natural Cycle: 45

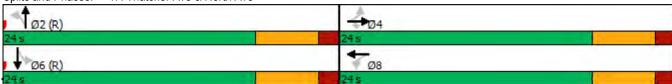
Control Type: Actuated-Coordinated

Maximum v/c Ratio: 1.05

Intersection Signal Delay: 32.3 Intersection LOS: C Intersection Capacity Utilization 91.7% ICU Level of Service F

Analysis Period (min) 15

Splits and Phases: 47: Thatcher Ave & North Ave



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	∱ ∱		7	† }		*	1		*	4	
Traffic Volume (vph)	25	1505	26	18	1528	70	142	86	55	40	106	104
Future Volume (vph)	25	1505	26	18	1528	70	142	86	55	40	106	104
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	100		0	100		0	80		0	60		0
Storage Lanes	1		0	1		0	1		0	1		0
Taper Length (ft)	170			115			110			55		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			1.00		0.99	0.99		0.99	0.99	
Frt		0.997			0.993			0.942			0.926	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	3459	0	1770	3443	0	1770	1737	0	1770	1702	0
Flt Permitted	0.077			0.077			0.333			0.659		
Satd. Flow (perm)	143	3459	0	143	3443	0	615	1737	0	1213	1702	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		3			7			29			45	
Link Speed (mph)		30			30			25			25	
Link Distance (ft)		860			438			660			264	
Travel Time (s)		19.5			10.0			18.0			7.2	
Confl. Peds. (#/hr)	10		10	10		10	10		10	10		10
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles (%)	2%	4%	2%	2%	4%	2%	2%	2%	2%	2%	2%	2%
Adj. Flow (vph)	27	1654	29	20	1679	77	156	95	60	44	116	114
Shared Lane Traffic (%)												
Lane Group Flow (vph)	27	1683	0	20	1756	0	156	155	0	44	230	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru	•	Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		CI+Ex			CI+Ex			CI+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	

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Lane Group	EBL	EBT	EBR WE	BL WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Type	pm+pt	NA	pm+	pt NA		pm+pt	NA		pm+pt	NA	
Protected Phases	7	4		3 8		5	2		1	6	
Permitted Phases	4			8		2			6		
Detector Phase	7	4		3 8		5	2		1	6	
Switch Phase											
Minimum Initial (s)	5.0	5.0		.0 5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	11.0	14.0	11			11.0	14.0		11.0	14.0	
Total Split (s)	11.0	51.0	11			11.0	17.0		11.0	17.0	
Total Split (%)	12.2%	56.7%	12.2			12.2%	18.9%		12.2%	18.9%	
Maximum Green (s)	7.5	45.0		.5 45.0		7.5	11.0		7.5	11.0	
Yellow Time (s)	3.5	4.5		.5 4.5		3.5	4.5		3.5	4.5	
All-Red Time (s)	0.0	1.5	0	.0 1.5		0.0	1.5		0.0	1.5	
Lost Time Adjust (s)	0.0	0.0	0	.0 0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	3.5	6.0	3	.5 6.0		3.5	6.0		3.5	6.0	
Lead/Lag	Lead	Lag	Lea	ad Lag		Lead	Lag		Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Ye			Yes	Yes		Yes	Yes	
Vehicle Extension (s)	3.0	3.0	3	.0 3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None	Nor			None	C-Max		None	C-Max	
Walk Time (s)		7.0		7.0			7.0			7.0	
Flash Dont Walk (s)		11.0		11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0		0			0			0	
Act Effct Green (s)	57.2	52.1	57			22.5	15.5		20.3	11.0	
Actuated g/C Ratio	0.64	0.58	0.6	0.58		0.25	0.17		0.23	0.12	
v/c Ratio	0.14	0.84	0.1			0.63	0.48		0.14	0.93	
Control Delay	7.2	22.0	6	.8 24.6		39.4	35.2		25.8	75.7	
Queue Delay	0.0	0.0		.0 0.0		0.0	0.0		0.0	0.0	
Total Delay	7.2	22.0	6	.8 24.6		39.4	35.2		25.8	75.7	
LOS	Α	С		A C		D	D		С	Е	
Approach Delay		21.8		24.4			37.3			67.7	
Approach LOS		С		C			D			Е	

Area Type: Other

Cycle Length: 90

Actuated Cycle Length: 90

Offset: 0 (0%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green

Natural Cycle: 90

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.93

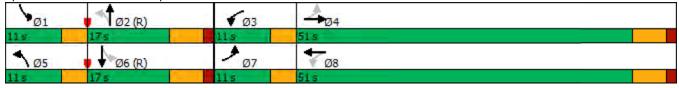
Intersection Signal Delay: 27.2

Intersection Capacity Utilization 80.7%

Intersection LOS: C
ICU Level of Service D

Analysis Period (min) 15

Splits and Phases: 48: Lathrop Ave & North Ave



Lane Group EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT SBR Lane Configurations 1 115 1 115 1 0 1 1 1 1 0 1 1 1 1 0 1 1 1 1 0 1 1 1 1 0 1 1 1 1 0 1 1 1 1 1 0 1 1 1 1 1 1 1 1
Traffic Volume (vph) 89 1131 300 164 1457 47 188 540 198 100 637 100 Future Volume (vph) 89 1131 300 164 1457 47 188 540 198 100 637 100 Ideal Flow (vphpl) 1900 </td
Traffic Volume (vph) 89 1131 300 164 1457 47 188 540 198 100 637 100 Future Volume (vph) 89 1131 300 164 1457 47 188 540 198 100 637 100 Ideal Flow (vphpl) 1900 </td
Ideal Flow (vphpl) 1900
Storage Length (ft) 245 0 165 0 145 145 100 0 Storage Lanes 1 0 1 0 1 1 1 1 0 Taper Length (ft) 135 180 135 160 Lane Util. Factor 1.00 0.91 0.91 0.91 0.91 1.00 0.95 1.00 1.00 0.95 0.95 Ped Bike Factor 1.00 0.999 1.00 1.00 1.00 0.98 0.99 1.00 Frt 0.969 0.995 0.950 0.950 0.950
Storage Lanes 1 0 1 0 1 1 1 0 Taper Length (ft) 135 180 135 160 Lane Util. Factor 1.00 0.91 0.91 0.91 0.91 1.00 0.95 1.00 1.00 0.95 0.95 Ped Bike Factor 1.00 0.99 1.00 1.00 1.00 0.98 0.99 1.00 Frt 0.969 0.995 0.950 0.950 0.950 Flt Protected 0.950 0.950 0.950 0.950
Storage Lanes 1 0 1 0 1 1 1 0 Taper Length (ft) 135 180 135 160 Lane Util. Factor 1.00 0.91 0.91 0.91 0.91 1.00 0.95 1.00 1.00 0.95 0.95 Ped Bike Factor 1.00 0.99 1.00 1.00 1.00 0.98 0.99 1.00 Frt 0.969 0.995 0.950 0.950 0.950 Fit Protected 0.950 0.950 0.950 0.950
Lane Util. Factor 1.00 0.91 0.91 1.00 0.91 1.00 0.95 1.00 1.00 0.95 0.95 Ped Bike Factor 1.00 0.99 1.00 1.00 1.00 0.98 0.99 1.00 Frt 0.969 0.995 0.850 0.980 Flt Protected 0.950 0.950 0.950 0.950
Ped Bike Factor 1.00 0.99 1.00 1.00 0.98 0.99 1.00 Frt 0.969 0.995 0.850 0.980 Flt Protected 0.950 0.950 0.950 0.950
Frt 0.969 0.995 0.850 0.980 Fit Protected 0.950 0.950 0.950 0.950
Flt Protected 0.950 0.950 0.950
Satd Flow (prot) 1770 4828 0 1770 4062 0 1770 3471 1583 1770 3300 0
Outd. 110 4020 0 1110 4002 0 1110 0411 1000 1110 0000 0
Flt Permitted 0.950 0.950 0.950 0.950
Satd. Flow (perm) 1767 4828 0 1767 4962 0 1762 3471 1545 1759 3399 0
Right Turn on Red Yes Yes Yes Yes
Satd. Flow (RTOR) 92 6 202 22
Link Speed (mph) 30 30 30
Link Distance (ft) 425 797 667 513
Travel Time (s) 9.7 18.1 15.2 11.7
Confl. Peds. (#/hr) 10 10 10 10 10 10 10
Peak Hour Factor 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98
Heavy Vehicles (%) 2% 4% 2% 2% 4% 2% 2% 4% 2% 2% 4% 2%
Adj. Flow (vph) 91 1154 306 167 1487 48 192 551 202 102 650 102
Shared Lane Traffic (%)
Lane Group Flow (vph) 91 1460 0 167 1535 0 192 551 202 102 752 0
Enter Blocked Intersection No
Lane Alignment Left Left Right Left Right Left Right Left Right
Median Width(ft) 12 12 12 12
Link Offset(ft) 0 0 0
Crosswalk Width(ft) 16 16 16
Two way Left Turn Lane
Headway Factor 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
Turning Speed (mph) 15 9 15 9 15 9
Number of Detectors 1 2 1 1 2
Detector Temp <mark>late Left Thru Left Thru Left Thru Right Left Thru</mark>
Leading Detector (ft) 20 100 20 100 20 20 100
Trailing Detector (ft) 0 0 0 0 0 0
Detector 1 Position(ft) 0 0 0 0 0 0
Detector 1 Size(ft) 20 6 20 6 20 6
Detector 1 Type CI+Ex CI+Ex CI+Ex CI+Ex CI+Ex CI+Ex CI+Ex CI+Ex
Detector 1 Channel
Detector 1 Extend (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Detector 1 Queue (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Detector 1 Delay (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Detector 2 Position(ft) 94 94 94
Detector 2 Size(ft) 6 6 6
Detector 2 Type CI+Ex CI+Ex CI+Ex CI+Ex
Detector 2 Channel
Detector 2 Extend (s) 0.0 0.0 0.0

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Lane Group	EBL	EBT	EBR WE	BL WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Type	Prot	NA	Pr	ot NA		Prot	NA	Perm	Prot	NA	
Protected Phases	7	4		3 8		5	2		1	6	
Permitted Phases								2			
Detector Phase	7	4		3 8		5	2	2	1	6	
Switch Phase											
Minimum Initial (s)	5.0	5.0		.0 5.0		5.0	5.0	5.0	5.0	5.0	
Minimum Split (s)	11.0	14.0	11			11.0	14.0	14.0	11.0	14.0	
Total Split (s)	11.0	29.0	11			12.0	24.0	24.0	11.0	23.0	
Total Split (%)	14.7%	38.7%	14.7			16.0%	32.0%	32.0%	14.7%	30.7%	
Maximum Green (s)	7.5	23.0		.5 23.0		8.5	18.0	18.0	7.5	17.0	
Yellow Time (s)	3.5	4.5		.5 4.5		3.5	4.5	4.5	3.5	4.5	
All-Red Time (s)	0.0	1.5		.0 1.5		0.0	1.5	1.5	0.0	1.5	
Lost Time Adjust (s)	0.0	0.0	0	.0 0.0		0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	3.5	6.0	3	.5 6.0		3.5	6.0	6.0	3.5	6.0	
Lead/Lag	Lead	Lag	Lea	ad Lag		Lead	Lag	Lag	Lead	Lag	
Lead-Lag Optimize?	Yes	Yes		es Yes		Yes	Yes	Yes	Yes	Yes	
Vehicle Extension (s)	3.0	3.0	3	.0 3.0		3.0	3.0	3.0	3.0	3.0	
Recall Mode	None	None	Noi			None	C-Max	C-Max	None	C-Max	
Walk Time (s)		7.0		7.0			7.0	7.0		7.0	
Flash Dont Walk (s)		11.0		11.0			11.0	11.0		11.0	
Pedestrian Calls (#/hr)		0		0			0	0		0	
Act Effct Green (s)	7.1	23.0		.5 25.2		8.5	20.2	20.2	7.2	17.0	
Actuated g/C Ratio	0.09	0.31	0.	0.34		0.11	0.27	0.27	0.10	0.23	
v/c Ratio	0.54	0.95	0.9			0.96	0.59	0.36	0.60	0.96	
Control Delay	44.7	38.1	92	.1 35.9		91.2	27.8	5.9	48.3	52.6	
Queue Delay	0.0	0.0	0	.0 0.0		0.0	0.0	0.0	0.0	0.0	
Total Delay	44.7	38.1	92			91.2	27.8	5.9	48.3	52.6	
LOS	D	D		F D		F	С	Α	D	D	
Approach Delay		38.5		41.4			36.0			52.1	
Approach LOS		D		D			D			D	

Area Type: Other

Cycle Length: 75

Actuated Cycle Length: 75

Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Green

Natural Cycle: 90

Control Type: Actuated-Coordinated

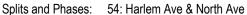
Maximum v/c Ratio: 0.96

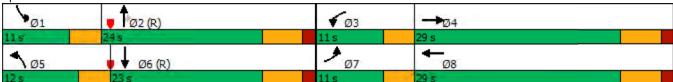
Intersection Signal Delay: 41.3

Intersection Capacity Utilization 85.9%

Intersection LOS: D
ICU Level of Service E

Analysis Period (min) 15









Volumes & Level of Service – PM

Intersection												
Intersection Delay, s/veh	15.6											
Intersection LOS	С											
Movement	FRI	FRT	FRR	WRI	WRT	WRR	NRI	NRT	NRR	SRI	SRT	SBR

iviovement	FRL	FRI	EBK	WBL	WBI	WBK	NBL	INR I	NRK	SBL	SBT	SBK
Lane Configurations		€1 }			4	7		4			4	
Traffic Vol, veh/h	114	241	19	10	243	23	11	155	31	13	148	89
Future Vol, veh/h	114	241	19	10	243	23	11	155	31	13	148	89
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	125	265	21	11	267	25	12	170	34	14	163	98
Number of Lanes	0	2	0	0	1	1	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	2			2			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			2			2		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			2			2		
HCM Control Delay	15.1			17.1			14.3			15.7		
HCM LOS	С			C			В			С		

Lane	NBLn1	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	
Vol Left, %	6%	49%	0%	4%	0%	5%	
Vol Thru, %	79%	51%	86%	96%	0%	59%	
Vol Right, %	16%	0%	14%	0%	100%	36%	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	197	235	140	253	23	250	
LT Vol	11	114	0	10	0	13	
Through Vol	155	121	121	243	0	148	
RT Vol	31	0	19	0	23	89	
Lane Flow Rate	216	258	153	278	25	275	
Geometry Grp	2	7	7	7	7	2	
Degree of Util (X)	0.405	0.507	0.287	0.541	0.044	0.493	
Departure Headway (Hd)	6.737	7.078	6.731	7.011	6.272	6.465	
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	
Сар	533	508	533	514	569	555	
Service Time	4.795	4.831	4.484	4.766	4.027	4.52	
HCM Lane V/C Ratio	0.405	0.508	0.287	0.541	0.044	0.495	
HCM Control Delay	14.3	16.9	12.2	17.8	9.3	15.7	
HCM Lane LOS	В	С	В	С	Α	С	
HCM 95th-tile Q	1.9	2.8	1.2	3.2	0.1	2.7	

Intersection												
Intersection Delay, s/veh	13.7											
Intersection LOS	13.7 B											
Intersection EGG												
	EDI	EDT	EDD	MDI	WDT	WDD	MDI	NDT	NDD	ODI	ODT	000
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	•	4	4.4	4=	4	00	_	4	00	00	4	-
Traffic Vol, veh/h	3	135	11	45	171	29	7	268	23	20	184	7
Future Vol, veh/h	3	135	11	45	171	29	7	268	23	20	184	7
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	3	153	13	51	194	33	8	305	26	23	209	8
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			1			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			1			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			1			1		
HCM Control Delay	11.8			13.9			15.2			12.9		
HCM LOS	В			В			C			В		
Lane		NBLn1	EBLn1	WBLn1	SBLn1							
Lane Vol Left, %		NBLn1 2%	EBLn1 2%	WBLn1 18%	SBLn1							
				18% 70%	9% 87%							
Vol Left, %		2%	2%	18%	9%							
Vol Left, % Vol Thru, %		2% 90%	2% 91%	18% 70%	9% 87% 3% Stop							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane		2% 90% 8%	2% 91% 7% Stop 149	18% 70% 12% Stop 245	9% 87% 3% Stop 211							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol		2% 90% 8% Stop 298 7	2% 91% 7% Stop 149	18% 70% 12% Stop 245 45	9% 87% 3% Stop 211 20							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol		2% 90% 8% Stop 298 7 268	2% 91% 7% Stop 149 3	18% 70% 12% Stop 245 45	9% 87% 3% Stop 211 20 184							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol		2% 90% 8% Stop 298 7 268 23	2% 91% 7% Stop 149 3 135	18% 70% 12% Stop 245 45 171 29	9% 87% 3% Stop 211 20 184 7							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol		2% 90% 8% Stop 298 7 268	2% 91% 7% Stop 149 3	18% 70% 12% Stop 245 45	9% 87% 3% Stop 211 20 184 7 240							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp		2% 90% 8% Stop 298 7 268 23 339	2% 91% 7% Stop 149 3 135 11 169	18% 70% 12% Stop 245 45 171 29 278	9% 87% 3% Stop 211 20 184 7 240							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X)		2% 90% 8% Stop 298 7 268 23 339 1 0.534	2% 91% 7% Stop 149 3 135 11 169 1	18% 70% 12% Stop 245 45 171 29 278 1 0.456	9% 87% 3% Stop 211 20 184 7 240 1 0.399							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp		2% 90% 8% Stop 298 7 268 23 339 1 0.534 5.782	2% 91% 7% Stop 149 3 135 11 169 1 0.293 6.222	18% 70% 12% Stop 245 45 171 29 278 1 0.456 6.004	9% 87% 3% Stop 211 20 184 7 240							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X)		2% 90% 8% Stop 298 7 268 23 339 1 0.534 5.782 Yes	2% 91% 7% Stop 149 3 135 11 169 1 0.293 6.222 Yes	18% 70% 12% Stop 245 45 171 29 278 1 0.456 6.004 Yes	9% 87% 3% Stop 211 20 184 7 240 1 0.399 5.997 Yes							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap		2% 90% 8% Stop 298 7 268 23 339 1 0.534 5.782 Yes 626	2% 91% 7% Stop 149 3 135 11 169 1 0.293 6.222 Yes 581	18% 70% 12% Stop 245 45 171 29 278 1 0.456 6.004 Yes 604	9% 87% 3% Stop 211 20 184 7 240 1 0.399 5.997 Yes 604							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time		2% 90% 8% Stop 298 7 268 23 339 1 0.534 5.782 Yes 626 3.782	2% 91% 7% Stop 149 3 135 11 169 1 0.293 6.222 Yes 581 4.234	18% 70% 12% Stop 245 45 171 29 278 1 0.456 6.004 Yes 604 4.004	9% 87% 3% Stop 211 20 184 7 240 1 0.399 5.997 Yes 604 3.997							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		2% 90% 8% Stop 298 7 268 23 339 1 0.534 5.782 Yes 626 3.782 0.542	2% 91% 7% Stop 149 3 135 11 169 1 0.293 6.222 Yes 581 4.234 0.291	18% 70% 12% Stop 245 45 171 29 278 1 0.456 6.004 Yes 604 4.004 0.46	9% 87% 3% Stop 211 20 184 7 240 1 0.399 5.997 Yes 604 3.997 0.397							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio HCM Control Delay		2% 90% 8% Stop 298 7 268 23 339 1 0.534 5.782 Yes 626 3.782 0.542 15.2	2% 91% 7% Stop 149 3 135 11 169 1 0.293 6.222 Yes 581 4.234 0.291 11.8	18% 70% 12% Stop 245 45 171 29 278 1 0.456 6.004 Yes 604 4.004 0.46 13.9	9% 87% 3% Stop 211 20 184 7 240 1 0.399 5.997 Yes 604 3.997 0.397 12.9							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		2% 90% 8% Stop 298 7 268 23 339 1 0.534 5.782 Yes 626 3.782 0.542	2% 91% 7% Stop 149 3 135 11 169 1 0.293 6.222 Yes 581 4.234 0.291	18% 70% 12% Stop 245 45 171 29 278 1 0.456 6.004 Yes 604 4.004 0.46	9% 87% 3% Stop 211 20 184 7 240 1 0.399 5.997 Yes 604 3.997 0.397							

Intersection												
Intersection Delay, s/veh	26.8											
Intersection LOS	D											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		र्स	7		र्स	7		↔			↔	
Traffic Vol, veh/h	22	342	24	44	215	54	25	229	46	28	143	22
Future Vol, veh/h	22	342	24	44	215	54	25	229	46	28	143	22
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	24	380	27	49	239	60	28	254	51	31	159	24
Number of Lanes	0	1	1	0	1	1	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	2			2			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			2			2		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			2			2		
HCM Control Delay	38			20.9			24.6			17.5		
HCM LOS	Е			C			C			С		
	_						U			U		
	_									U		
Lane		NBLn1	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1			U		
Lane Vol Left, %		8%	6%	EBLn2	17%	0%	SBLn1 15%					
Lane Vol Left, % Vol Thru, %		8% 76%	6% 94%	EBLn2 0% 0%	17% 83%	0% 0%	SBLn1 15% 74%					
Lane Vol Left, % Vol Thru, % Vol Right, %		8% 76% 15%	6% 94% 0%	EBLn2 0% 0% 100%	17% 83% 0%	0% 0% 100%	SBLn1 15% 74% 11%					
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control		8% 76% 15% Stop	6% 94% 0% Stop	EBLn2 0% 0% 100% Stop	17% 83% 0% Stop	0% 0% 100% Stop	SBLn1 15% 74% 11% Stop					
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane		8% 76% 15% Stop 300	6% 94% 0% Stop 364	0% 0% 100% Stop 24	17% 83% 0% Stop 259	0% 0% 100% Stop 54	SBLn1 15% 74% 11% Stop 193					
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol		8% 76% 15% Stop 300 25	6% 94% 0% Stop 364 22	EBLn2 0% 0% 100% Stop 24 0	17% 83% 0% Stop 259 44	0% 0% 100% Stop 54 0	SBLn1 15% 74% 11% Stop 193 28					
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol		8% 76% 15% Stop 300 25 229	6% 94% 0% Stop 364 22 342	0% 0% 100% Stop 24 0	17% 83% 0% Stop 259 44 215	0% 0% 100% Stop 54 0	SBLn1 15% 74% 11% Stop 193 28 143					
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol		8% 76% 15% Stop 300 25 229 46	6% 94% 0% Stop 364 22 342 0	0% 0% 100% Stop 24 0 0	17% 83% 0% Stop 259 44 215	0% 0% 100% Stop 54 0 0	SBLn1 15% 74% 11% Stop 193 28 143 22					
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate		8% 76% 15% Stop 300 25 229 46 333	6% 94% 0% Stop 364 22 342 0 404	0% 0% 100% Stop 24 0 0 24 27	17% 83% 0% Stop 259 44 215 0 288	0% 0% 100% Stop 54 0 0 54 60	SBLn1 15% 74% 11% Stop 193 28 143 22 214					
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp		8% 76% 15% Stop 300 25 229 46 333 2	6% 94% 0% Stop 364 22 342 0 404	0% 0% 100% Stop 24 0 0 24 27 7	17% 83% 0% Stop 259 44 215 0 288 7	0% 0% 100% Stop 54 0 0 54 60	SBLn1 15% 74% 11% Stop 193 28 143 22 214 2					
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X)		8% 76% 15% Stop 300 25 229 46 333 2	6% 94% 0% Stop 364 22 342 0 404 7	EBLn2 0% 0% 100% Stop 24 0 0 24 27 7 0.05	17% 83% 0% Stop 259 44 215 0 288 7 0.628	0% 0% 100% Stop 54 0 0 54 60 7	SBLn1 15% 74% 11% Stop 193 28 143 22 214 2 0.464					
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd)		8% 76% 15% Stop 300 25 229 46 333 2 0.678 7.326	6% 94% 0% Stop 364 22 342 0 404 7 0.848 7.545	EBLn2 0% 0% 100% Stop 24 0 24 27 7 0.05 6.792	17% 83% 0% Stop 259 44 215 0 288 7 0.628 7.85	0% 0% 100% Stop 54 0 0 54 60 7 0.117 7.038	SBLn1 15% 74% 11% Stop 193 28 143 22 214 2 0.464 7.796					
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N		8% 76% 15% Stop 300 25 229 46 333 2 0.678 7.326 Yes	6% 94% 0% Stop 364 22 342 0 404 7 0.848 7.545 Yes	EBLn2 0% 0% 100% Stop 24 0 0 24 27 7 0.05 6.792 Yes	17% 83% 0% Stop 259 44 215 0 288 7 0.628 7.85 Yes	0% 0% 100% Stop 54 0 0 54 60 7 0.117 7.038 Yes	SBLn1 15% 74% 11% Stop 193 28 143 22 214 2 0.464 7.796 Yes					
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap		8% 76% 15% Stop 300 25 229 46 333 2 0.678 7.326 Yes 493	6% 94% 0% Stop 364 22 342 0 404 7 0.848 7.545 Yes 481	EBLn2 0% 0% 100% Stop 24 0 0 24 27 7 0.05 6.792 Yes 526	17% 83% 0% Stop 259 44 215 0 288 7 0.628 7.85 Yes 460	0% 0% 100% Stop 54 0 0 54 60 7 0.117 7.038 Yes 508	SBLn1 15% 74% 11% Stop 193 28 143 22 214 2 0.464 7.796 Yes 461					
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time		8% 76% 15% Stop 300 25 229 46 333 2 0.678 7.326 Yes 493 5.39	6% 94% 0% Stop 364 22 342 0 404 7 0.848 7.545 Yes 481 5.301	EBLn2 0% 0% 100% Stop 24 0 0 24 27 7 0.05 6.792 Yes 526 4.548	17% 83% 0% Stop 259 44 215 0 288 7 0.628 7.85 Yes 460 5.613	0% 0% 100% Stop 54 0 0 54 60 7 0.117 7.038 Yes 508 4.801	SBLn1 15% 74% 11% Stop 193 28 143 22 214 2 0.464 7.796 Yes 461 5.873					
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		8% 76% 15% Stop 300 25 229 46 333 2 0.678 7.326 Yes 493 5.39 0.675	6% 94% 0% Stop 364 22 342 0 404 7 0.848 7.545 Yes 481 5.301 0.84	EBLn2 0% 0% 100% Stop 24 0 0 24 27 7 0.05 6.792 Yes 526 4.548 0.051	17% 83% 0% Stop 259 44 215 0 288 7 0.628 7.85 Yes 460 5.613 0.626	0% 0% 100% Stop 54 0 0 54 60 7 0.117 7.038 Yes 508 4.801 0.118	SBLn1 15% 74% 11% Stop 193 28 143 22 214 2 0.464 7.796 Yes 461 5.873 0.464					
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio HCM Control Delay		8% 76% 15% Stop 300 25 229 46 333 2 0.678 7.326 Yes 493 5.39 0.675 24.6	6% 94% 0% Stop 364 22 342 0 404 7 0.848 7.545 Yes 481 5.301 0.84 39.9	EBLn2 0% 0% 100% Stop 24 0 0 24 27 7 0.05 6.792 Yes 526 4.548 0.051 9.9	17% 83% 0% Stop 259 44 215 0 288 7 0.628 7.85 Yes 460 5.613 0.626 23	0% 0% 100% Stop 54 0 0 54 60 7 0.117 7.038 Yes 508 4.801 0.118 10.7	SBLn1 15% 74% 11% Stop 193 28 143 22 214 2 0.464 7.796 Yes 461 5.873 0.464 17.5					
Lane Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		8% 76% 15% Stop 300 25 229 46 333 2 0.678 7.326 Yes 493 5.39 0.675	6% 94% 0% Stop 364 22 342 0 404 7 0.848 7.545 Yes 481 5.301 0.84	EBLn2 0% 0% 100% Stop 24 0 0 24 27 7 0.05 6.792 Yes 526 4.548 0.051	17% 83% 0% Stop 259 44 215 0 288 7 0.628 7.85 Yes 460 5.613 0.626	0% 0% 100% Stop 54 0 0 54 60 7 0.117 7.038 Yes 508 4.801 0.118	SBLn1 15% 74% 11% Stop 193 28 143 22 214 2 0.464 7.796 Yes 461 5.873 0.464					

Intersection												
Intersection Delay, s/veh	7.5											
Intersection LOS	A											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	2	86	0	1	34	5	2	10	2	15	20	15
Future Vol, veh/h	2	86	0	1	34	5	2	10	2	15	20	15
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	2	93	0	1	37	5	2	11	2	16	22	16
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			1			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			1			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			1			1		
HCM Control Delay	7.6			7.3			7.3			7.4		
HCM LOS	Α			A			A			Α		
Lane		NBLn1	EBLn1	WBLn1	SBLn1							
Vol Left, %		14%	2%	3%	30%							
Vol Left, % Vol Thru, %		14% 71%	2% 98%	3% 85%	30% 40%							
Vol Left, % Vol Thru, % Vol Right, %		14% 71% 14%	2% 98% 0%	3% 85% 12%	30% 40% 30%							
Vol Left, % Vol Thru, % Vol Right, % Sign Control		14% 71% 14% Stop	2% 98% 0% Stop	3% 85% 12% Stop	30% 40% 30% Stop							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane		14% 71% 14% Stop 14	2% 98% 0% Stop 88	3% 85% 12% Stop 40	30% 40% 30% Stop 50							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol		14% 71% 14% Stop 14 2	2% 98% 0% Stop 88	3% 85% 12% Stop 40	30% 40% 30% Stop 50 15							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol		14% 71% 14% Stop 14 2	2% 98% 0% Stop 88 2	3% 85% 12% Stop 40 1	30% 40% 30% Stop 50 15 20							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol		14% 71% 14% Stop 14 2 10 2	2% 98% 0% Stop 88 2 86 0	3% 85% 12% Stop 40 1 34 5	30% 40% 30% Stop 50 15 20							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate		14% 71% 14% Stop 14 2 10 2	2% 98% 0% Stop 88 2 86 0	3% 85% 12% Stop 40 1 34 5 43	30% 40% 30% Stop 50 15 20 15 54							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp		14% 71% 14% Stop 14 2 10 2 15	2% 98% 0% Stop 88 2 86 0 96	3% 85% 12% Stop 40 1 34 5 43	30% 40% 30% Stop 50 15 20 15 54							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X)		14% 71% 14% Stop 14 2 10 2 15 1	2% 98% 0% Stop 88 2 86 0 96 1	3% 85% 12% Stop 40 1 34 5 43 1 0.049	30% 40% 30% Stop 50 15 20 15 54 1							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd)		14% 71% 14% Stop 14 2 10 2 15 1 0.018 4.16	2% 98% 0% Stop 88 2 86 0 96 1 0.109 4.093	3% 85% 12% Stop 40 1 34 5 43 1 0.049 4.058	30% 40% 30% Stop 50 15 20 15 54 1 0.061 4.067							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N		14% 71% 14% Stop 14 2 10 2 15 1 0.018 4.16 Yes	2% 98% 0% Stop 88 2 86 0 96 1 0.109 4.093 Yes	3% 85% 12% Stop 40 1 34 5 43 1 0.049 4.058 Yes	30% 40% 30% Stop 50 15 20 15 54 1 0.061 4.067 Yes							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap		14% 71% 14% Stop 14 2 10 2 15 1 0.018 4.16 Yes 850	2% 98% 0% Stop 88 2 86 0 96 1 0.109 4.093 Yes 872	3% 85% 12% Stop 40 1 34 5 43 1 0.049 4.058 Yes 876	30% 40% 30% Stop 50 15 20 15 54 1 0.061 4.067 Yes 871							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time		14% 71% 14% Stop 14 2 10 2 15 1 0.018 4.16 Yes 850 2.238	2% 98% 0% Stop 88 2 86 0 96 1 0.109 4.093 Yes 872 2.135	3% 85% 12% Stop 40 1 34 5 43 1 0.049 4.058 Yes 876 2.113	30% 40% 30% Stop 50 15 20 15 54 1 0.061 4.067 Yes 871 2.136							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		14% 71% 14% Stop 14 2 10 2 15 1 0.018 4.16 Yes 850 2.238 0.018	2% 98% 0% Stop 88 2 86 0 96 1 0.109 4.093 Yes 872 2.135 0.11	3% 85% 12% Stop 40 1 34 5 43 1 0.049 4.058 Yes 876 2.113 0.049	30% 40% 30% Stop 50 15 20 15 54 1 0.061 4.067 Yes 871 2.136 0.062							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio HCM Control Delay		14% 71% 14% Stop 14 2 10 2 15 1 0.018 4.16 Yes 850 2.238 0.018 7.3	2% 98% 0% Stop 88 2 86 0 96 1 0.109 4.093 Yes 872 2.135 0.11 7.6	3% 85% 12% Stop 40 1 34 5 43 1 0.049 4.058 Yes 876 2.113 0.049 7.3	30% 40% 30% Stop 50 15 20 15 54 1 0.061 4.067 Yes 871 2.136 0.062 7.4							
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		14% 71% 14% Stop 14 2 10 2 15 1 0.018 4.16 Yes 850 2.238 0.018	2% 98% 0% Stop 88 2 86 0 96 1 0.109 4.093 Yes 872 2.135 0.11	3% 85% 12% Stop 40 1 34 5 43 1 0.049 4.058 Yes 876 2.113 0.049	30% 40% 30% Stop 50 15 20 15 54 1 0.061 4.067 Yes 871 2.136 0.062							

Intersection												
Intersection Delay, s/veh	7.5											
Intersection LOS	Α											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	5	94	4	4	29	1	4	4	4	6	5	7
Future Vol, veh/h	5	94	4	4	29	1	4	4	4	6	5	7
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	5	102	4	4	32	1	4	4	4	7	5	8
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			1			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1	•		1			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			1			1		
HCM Control Delay	7.6			7.3			7.2			7.2		
HCM LOS	Α			A			А			Α		
Lane		NBLn1	EBLn1	WBLn1	SBLn1							
Vol Left, %		33%	5%	12%	33%		•					
Vol Thru, %		33%	91%	85%	28%							
Vol Right, %		33%	4%	3%	39%							
Sign Control		Stop	Stop	Stop	Stop							
Traffic Vol by Lane		12	103	34	18							
LT Vol		4	5	4	6							
Through Vol		4	94	29	5							

7

20

0.022

4.036

Yes

877

2.104

0.023

7.2

0.1

Α

37

0.042

4.081

Yes

875

2.118

0.042

7.3

0.1

Α

4

13

0.015

4.074

Yes

869

2.144

0.015

7.2

Α

0

4

112

0.125

4.005

Yes

896

2.028

0.125

7.6

0.4

Α

RT Vol

Cap

Lane Flow Rate

Geometry Grp Degree of Util (X)

Departure Headway (Hd)

Convergence, Y/N

HCM Lane V/C Ratio

HCM Control Delay

HCM Lane LOS

HCM 95th-tile Q

Service Time

Intersection							
Int Delay, s/veh	3.9						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	*		ĵ.		¥		
Traffic Vol, veh/h	125	500	402	72	65	112	
Future Vol, veh/h	125	500	402	72	65	112	
Conflicting Peds, #/hr	10	0	0	10	10	10	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	0	-	_	-	0	-	
Veh in Median Storage		0	0	_	0	_	
Grade, %	-,	0	0	_	0	_	
Peak Hour Factor	91	91	91	91	91	91	
Heavy Vehicles, %	3	3	3	2	2	2	
Mvmt Flow	137	549	442	79	71	123	
		0.0	• •=			0	
N. A				_			
	Major1		Major2		Minor2		
Conflicting Flow All	531	0	-	0	1325	502	
Stage 1	-	-	-	-	492	-	
Stage 2	-	-	-	-	833	-	
Critical Hdwy	4.13	-	-	-	6.42	6.22	
Critical Hdwy Stg 1	-	-	-	-	5.42	-	
Critical Hdwy Stg 2	-	-	-	-	5.42		
Follow-up Hdwy	2.227	-	-	-			
Pot Cap-1 Maneuver	1031	-	-	·	172	569	
Stage 1	-	-	-	-	615	-	
Stage 2	-	-	-	-	427	-	
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuver	1021	-	-	-	146	558	V
Mov Cap-2 Maneuver	-	-	-		280		
Stage 1	-	-	-	-	527	-	
Stage 2	-	-	_	-	423	-	
Approach	EB		WB		SB		
HCM Control Delay, s	1.8		0		21.5		
HCM LOS					C		
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR S	SBLn1	
Capacity (veh/h)		1021	-	-	-	409	
HCM Lane V/C Ratio		0.135	-	-	-	0.476	
HCM Control Delay (s)		9.1	-	-	-	21.5	
HCM Lane LOS		Α	-	-	-	С	
HCM 95th %tile Q(veh)	0.5	-	-	-	2.5	

Intersection							
Int Delay, s/veh	1.3						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	Ť	<u></u>	f)		À		
Traffic Vol, veh/h	20	545	394	185	13	80	
Future Vol, veh/h	20	545	394	185	13	80	
Conflicting Peds, #/hr	14	0	0	14	10	10	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	65	-	-	-	0	-	
Veh in Median Storage	e,# -	0	0	-	0	-	
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	93	93	93	93	93	93	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	22	586	424	199	14	86	
							· ·
Major/Minor	Major1	N	Major2		Minor2		
Conflicting Flow All	637	0	_		1178	548	
Stage 1	-	-	_	-	538	-	
Stage 2	_	_	_	_	640	_	
Critical Hdwy	4.12	_	_	_	6.42	6.22	
Critical Hdwy Stg 1		_	_	_	5.42	-	
Critical Hdwy Stg 2	_	_	_	_	5.42	-	
Follow-up Hdwy	2.218	_	_	_	3.518	3 318	
Pot Cap-1 Maneuver	947	_	_	_	211	536	
Stage 1	-	_	_		585	-	
Stage 2	_	_		-	525	_	
Platoon blocked, %		-	_	<u>-</u>	020		
Mov Cap-1 Maneuver	934	-	_	_	201	524	
Mov Cap-2 Maneuver	-	_		_	201	-	7
Stage 1	_	_		_	563		
Stage 2			_	_	518	-	
otago 2					010		
Annach	FD		WD		CD		
Approach	EB		WB		SB 16		
HCM Control Delay, s	0.3		0				
HCM LOS					С		
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR :	SBLn1	
Capacity (veh/h)		934	-	-	-	428	
HCM Lane V/C Ratio		0.023	-	-	-	0.234	
HCM Control Delay (s)		8.9	-	-	-	16	
HCM Lane LOS		Α	-	-	-	С	
HCM 95th %tile Q(veh)	0.1	-	-	-	0.9	

Intersection	0.0						
Int Delay, s/veh	2.9						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	¥		£			4₽	
Traffic Vol, veh/h	44	130	452	56	20	564	
Future Vol, veh/h	44	130	452	56	20	564	
Conflicting Peds, #/hr	10	10	0	10	10	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	-	None	-	None	-	None	
Storage Length	0	-	-	-	-	-	
Veh in Median Storage		-	0	-	-	0	
Grade, %	0	-	0	-	-	0	
Peak Hour Factor	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	48	141	491	61	22	613	
							Y .
Major/Minor N	Minor1	N	/lajor1	ı	Major2		
Conflicting Flow All	893	542	0	0	562	0	
Stage 1	532	-	-	-	-	-	
Stage 2	361	_	-	_	_		
Critical Hdwy	6.63	6.23	_	-	4.13	-	
Critical Hdwy Stg 1	5.43	-	-	-	-	-	
Critical Hdwy Stg 2	5.83	-	-	-	-	-	
Follow-up Hdwy	3.519	3.319	-	-	2.219	-	
Pot Cap-1 Maneuver	296	539	_	-	1007	-	
Stage 1	588	-	-		-	-	
Stage 2	677	-	-	-	-	-	
Platoon blocked, %			-	-		-	
Mov Cap-1 Maneuver	281	529	-	-	997	-	
Mov Cap-2 Maneuver	281	-	-		-	-	7
Stage 1	582	-	-	-	-	-	
Stage 2	649		-	-	-	-	
Approach	WB		NB		SB		
HCM Control Delay, s	19.7		0		0.4		
HCM LOS	C				J.7		
110.11 200							
Minor Lane/Major Mvm		NBT	MDDV	MDI 51	SBL	SBT	
	ı.			WBLn1		اقد	
Capacity (veh/h)		-	-	.02	997	-	
HCM Cantral Dalay (a)		-		0.438		- 0.1	
HCM Long LOS		-	-	19.7	8.7	0.1	
HCM Lane LOS		-	-	С	Α	Α	
HCM 95th %tile Q(veh)		-	-	2.2	0.1	-	

Intersection							
Int Delay, s/veh	24						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	- Y		f)			41∱	
Traffic Vol, veh/h	68	183	488	94	240	516	
Future Vol, veh/h	68	183	488	94	240	516	
Conflicting Peds, #/hr	10	10	0	10	10	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	-	None	-	None	-	None	
Storage Length	0	-	-	-	-	-	
Veh in Median Storage	e,# 0	-	0	-	-	0	
Grade, %	0	-	0	-	-	0	
Peak Hour Factor	96	96	96	96	96	96	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	71	191	508	98	250	538	
Major/Minor	Minor1	ı	Major1	ı	Major2		
Conflicting Flow All	1346	577	0	0	616	0	
Stage 1	567	-	-	U	010	-	
Stage 2	779	_	_	_	-	_	
Critical Hdwy	6.63	6.23			4.13	-	
Critical Hdwy Stg 1	5.43	0.20	_	_	7.10		
Critical Hdwy Stg 2	5.83	_	_		_		
Follow-up Hdwy	3.519		_	_	2.219	-	
Pot Cap-1 Maneuver	154	515	_	_	962		
Stage 1	567	-	-		-	_	
Stage 2	414	_		_	-	_	
Platoon blocked, %	717		_	_		_	
Mov Cap-1 Maneuver	95	505	_	_	953	_	
Mov Cap 1 Maneuver		-	-		-	_	7
Stage 1	561	_		-	_	-	
Stage 2	257	-	_		_	_	
J.E. J. L							
	1						
Approach	WB		NB		SB		
HCM Control Delay, s			0		3.9		
HCM LOS	F						
Minor Lane/Major Mvn	nt	NBT	NBRV	VBLn1	SBL	SBT	
Capacity (veh/h)		-	-	233	953	-	
HCM Lane V/C Ratio		-	-	1.122	0.262	-	
HCM Control Delay (s)	-	-	140.4	10.1	1	
HCM Lane LOS		-	-	F	В	Α	
HCM 95th %tile Q(veh	1)	-	-		1.1	-	

Intersection							
Int Delay, s/veh	2.2						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		4	1	11511	₩	OBIT	
Traffic Vol, veh/h	12	65	27	2	10	11	
Future Vol, veh/h	12	65	27	2	10	11	
Conflicting Peds, #/hr	10	0	0	10	10	10	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	_	-	_	-	0	INOILE	
Veh in Median Storage		0	0	_	0	_	
Grade, %	;, # -	0	0	_	0		
Peak Hour Factor	92	92	92	92	92	92	
	2	92	92	92	92	92	
Heavy Vehicles, %	13	71	29	2	11	12	
Mvmt Flow	13	71	29	2	11	ΊZ	
Major/Minor	Major1	N	Major2		Minor2		
Conflicting Flow All	41	0	_	0	147	50	
Stage 1	_	_	-	-	40	_	
Stage 2	_	_	-	_	107		
Critical Hdwy	4.12	_	-	-	6.42	6.22	
Critical Hdwy Stg 1	-	-	_	_	5.42	-	
Critical Hdwy Stg 2	_	_	_	_	5.42	-	
Follow-up Hdwy	2.218	-	-	_	3.518	3.318	
Pot Cap-1 Maneuver	1568	_	_	_	845	1018	
Stage 1	_	-	-		982	_	
Stage 2	-	-	-	-	917	_	
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuver	1553	-	-	-	820	999	
Mov Cap-2 Maneuver	-	_	-	_	820	-	7
Stage 1	-	-	-	-	963	-	
Stage 2	-	-	_	-	908	-	
U* =							
Approach	EB		WB		SB		
HCM Control Delay, s	1.1		0		9.1		
HCM LOS	1.1				Α		
TOW LOO					٨		
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR :	SBLn1	
Capacity (veh/h)		1553			-	905	
HCM Lane V/C Ratio		0.008	_	_		0.025	
HCM Control Delay (s)		7.3	0	_	_	9.1	
HCM Lane LOS		7.5 A	A	_	_	Α	
HCM 95th %tile Q(veh	١	0	-	_	_	0.1	
)	U	-	_	_	U. I	

Intersection													
Int Delay, s/veh	1.9												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		44			4			44			44		
Traffic Vol, veh/h	10	62	3	2	24	2	1	0	1	9	0	4	
Future Vol, veh/h	10	62	3	2	24	2	1	0	1	9	0	4	
Conflicting Peds, #/hr	10	0	10	10	0	10	10	0	10	10	0	10	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	None	-	-	None	-	_	None	
Storage Length	-	-	-	-	-	-	-	-	-	-		-	
Veh in Median Storage	e, # -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	11	67	3	2	26	2	1	0	1	10	0	4	
Major/Minor I	Major1			Major2			Minor1		<u> </u>	Minor2			
Conflicting Flow All	38	0	0	80	0	0	144	143	89	142	143	47	
Stage 1	-	-	-	-	-	-	101	101	-	41	41	-	
Stage 2	-	-	-	-	-		43	42	-	101	102	-	
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22	
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52		6.12	5.52	-	
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318	
Pot Cap-1 Maneuver	1572	-	-	1518	-	-	825	748	969	828	748	1022	
Stage 1	-	-	-		-	-	905	811	-	974	861	-	
Stage 2	-	-	-	-	-	-	971	860	_	905	811	-	
Platoon blocked, %		-	-		7-	-							
Mov Cap-1 Maneuver	1557	-	-	1504	-	-	801	727	951	806	727	1003	
Mov Cap-2 Maneuver	-	-	-		_	-	801	727	-	806	727	-	
Stage 1	-	-	-	-	-	-	891	797	-	958	852	-	
Stage 2	-	•	_	-	-	-	957	851	-	889	797	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	1			0.5			9.1			9.3			
HCM LOS							Α			Α			
Minor Lane/Major Mvm	nt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR :	SBLn1				
Capacity (veh/h)		870	1557	-	-	1504	_	_	858				
HCM Lane V/C Ratio		0.002	0.007	_	-	0.001	_	_	0.016				
HCM Control Delay (s)		9.1	7.3	0	_	7.4	0	-	9.3				
HCM Lane LOS		A	A	A	_	Α	A	-	A				
HCM 95th %tile Q(veh))	0	0	-	_	0	-	-	0.1				

Intersection														
Int Delay, s/veh	18													
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR		
Lane Configurations		4			4			€Î}•			414			
Traffic Vol, veh/h	4	23	45	6	13	34	8	1089	16	22	1010	7		
Future Vol, veh/h	4	23	45	6	13	34	8	1089	16	22	1010	7		
Conflicting Peds, #/hr	10	0	10	10	0	10	10	0	10	10	0	10		
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free		
RT Channelized	_	-	None	-	-	None	-	-	None	-	-	None		
Storage Length	-	-	-	-	-	-	-	-	-	-	7	-		
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-		
Grade, %	-	0	_	_	0	_	_	0	_	-	0	-		
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92		
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2		2	2		
Mvmt Flow	4	25	49	7	14	37	9	1184	17	24	1098	8		
WWW.CT IOW	•	20	10	•	• • •	O1	Ū	1101			1000	J		
Major/Minor I	Minor2		1	Minor1			Major1		N	Major2				
Conflicting Flow All	1787	2389	573	1841	2385	621	1116	0	0	1211	0	0		
Stage 1	1160	1160	-	1221	1221	-	_	-	-	-	-	_		
Stage 2	627	1229	-	620	1164	-	-	-	-	-	-	-		
Critical Hdwy	7.54	6.54	6.94	7.54	6.54	6.94	4.14	-	-	4.14	-	-		
Critical Hdwy Stg 1	6.54	5.54	-	6.54	5.54	-	-	-	-		-	-		
Critical Hdwy Stg 2	6.54	5.54	-	6.54	5.54	-	-	-	-	_	-	-		
Follow-up Hdwy	3.52	4.02	3.32	3.52	4.02	3.32	2.22	-		2.22	-	-		
Pot Cap-1 Maneuver	51	33	463	47	34	430	622	-	-	572	-	_		
Stage 1	208	268	-	191	251	_ `	-	-	-	-	-	-		
Stage 2	438	248	-	442	267	_	-	-	-	-	-	_		
Platoon blocked, %								-	-		-	-		
Mov Cap-1 Maneuver	25	28	454	9	28	422	616	-	-	567	-	-		
Mov Cap-2 Maneuver	25	28	-	9	28	-	-	-	-	_	-	-		
Stage 1	197	236	-	181	237	-	-	-	-	-	-	-		
Stage 2	356	235	_	311	235	_	_	_	_	-	_	_		
J. J.														
Approach	EB			WB			NB			SB				
HCM Control Delay, s			\$	386.7			0.3			8.0				
HCM LOS	F			F										
Minor Lane/Major Mvm	nt	NBL	NBT	NRR I	EBLn1V	WRI n1	SBL	SBT	SBR					
				-	67	44	567	-	ODIC					
Capacity (veh/h) HCM Lane V/C Ratio		616	-			1.309			=					
		0.014	- 0.2	-				0.6	-					
HCM Long LOS		10.9	0.2	-	268.8\$		11.6	0.6	-					
HCM Lane LOS	\	В	Α	-	F	F	B	Α	-					
HCM 95th %tile Q(veh)		0	-	-	6.2	5.6	0.1	-	-					
Notes														
~: Volume exceeds car	pacity	\$: De	elay exc	eeds 30	00s	+: Com	putation	Not De	efined	*: All	maior v	olume i	n platoon	
		Ţ. _ (, J								,•. •		J	

Intersection														
Int Delay, s/veh	26.7													
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR		
Lane Configurations		4			4			4î.			414			
Traffic Vol, veh/h	6	44	54	20	10	40	6	1096	25	20	965	18		
Future Vol, veh/h	6	44	54	20	10	40	6	1096	25	20	965	18		
Conflicting Peds, #/hr	10	0	10	10	0	10	10	0	10	10	0	10		
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free		
RT Channelized	-	-	None	-	-	None	_	_	None	-	-	None		
Storage Length	_	_	_	_	-	_	-	_	-	-		_		
Veh in Median Storage	.# -	0	-	_	0	-	_	0	_	-	0	-		
Grade, %	_	0	_	_	0	_	-	0	_	-	0	-		
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92		
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2		2	2		
Mvmt Flow	7	48	59	22	11	43	7	1191	27	22	1049	20		
		10			- 11	- 10	•	1.01			1010			
NA - ' /NA'	A'			A'			1.1.4			1				
	Minor2	0055		Minor1	0050		Major1	_		Major2				
Conflicting Flow All	1738	2355	555	1832	2352	629	1079	0	0	1228	0	0		
Stage 1	1113	1113	-	1229	1229	-	-	-	_ <	-	-	-		
Stage 2	625	1242	-	603	1123	-	-	-	-	-	-	-		
Critical Hdwy	7.54	6.54	6.94	7.54	6.54	6.94	4.14	-	-	4.14	-	-		
Critical Hdwy Stg 1	6.54	5.54	-	6.54	5.54	-	•	_	-		-	-		
Critical Hdwy Stg 2	6.54	5.54	-	6.54	5.54	-	-	7		-	-	-		
Follow-up Hdwy	3.52	4.02	3.32	3.52	4.02	3.32	2.22	-		2.22	-	-		
Pot Cap-1 Maneuver	56	~ 35	475	47	35	425	642	-	-	563	-	-		
Stage 1	222	282	-	188	248	- `	-	-	-	-	-	-		
Stage 2	439	245	_	453	279	-	-	-	-	-	-	-		
Platoon blocked, %								-	-		-	-		
Mov Cap-1 Maneuver	32	~ 30	466	-	30	417	636	-	-	558	-	-		
Mov Cap-2 Maneuver	32	~ 30	-	-	30	-	-	-	-	-	-	-		
Stage 1	212	252	-	180	237	-	-	-	-	-	-	-		
Stage 2	359	234	-	287	249	-	-	-	-	-	-	-		
Approach	EB			WB			NB			SB				
HCM Control Delay, s\$							0.3			0.8				
HCM LOS	F			_			0.0			0.0				
TIOWI LOO	ı			_										
Minor Lane/Major Mvm	it	NBL	NBT	NBR I	EBLn1V	VBLn1	SBL	SBT	SBR					
Capacity (veh/h)		636	-	-	59	-	558	-	-					
HCM Lane V/C Ratio		0.01	-		1.916	-	0.039	-	-					
HCM Control Delay (s)		10.7	0.2	-\$	580.5	-	11.7	0.6	-					
HCM Lane LOS		В	Α	-	F	-	В	Α	-					
HCM 95th %tile Q(veh)		0	-	-	10.7	-	0.1	-	-					
Notes														
~: Volume exceeds cap	nacity	\$: De	elay exc	eeds 30	10s	+: Com	outation	Not De	efined	*· ΔII	maior v	olume i	n platoon	
. Volumo exceeds cap	Judity	ψ. De	hay ext	0003 30	303	·. Ouri	Jalaliol	HOLDE	Jillieu	. 📶	major v	Jiuille I	ii piatooii	

Intersection							
Int Delay, s/veh	4.1						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	↑ ↑			4₽	W		
	1530	55	40	1517	1	27	
Future Vol, veh/h	1530	55	40	1517	1	27	
Conflicting Peds, #/hr	0	10	10	0	26	10	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	-	-	-	-	0	-	
Veh in Median Storage, #	# 0	-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	1663	60	43	1649	1	29	
Major/Minor Ma	ajor1	N	/lajor2	N	/linor1		
Conflicting Flow All	0	0	1733	0	2640	882	
Stage 1	-	-	-	-	1703	-	
Stage 2	-	-	_	-	937		
Critical Hdwy	-	-	4.14	-	6.84	6.94	
Critical Hdwy Stg 1	-	-	-	-	5.84	-	
Critical Hdwy Stg 2	-	-	-	-	5.84	-	
Follow-up Hdwy	-	-	2.22	-	3.52	3.32	
Pot Cap-1 Maneuver	-	-	360	_	19	289	
Stage 1	-	-	-		133	-	
Stage 2	-	-	-	-	342	-	
Platoon blocked, %	-	-		-			
Mov Cap-1 Maneuver	-	-	357	-	0	284	
Mov Cap-2 Maneuver	-	-	-		0	-	
Stage 1	-	-	-	-	132	-	
Stage 2	-	-	-	-	0	-	
Approach	EB		WB		NB		
HCM Control Delay, s	0		8		19.2		
HCM LOS					С		
Minor Lane/Major Mvmt	N	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)		284	-	-	357	-	
HCM Lane V/C Ratio		0.107	-	-	0.122	-	
HCM Control Delay (s)		19.2	-	-	16.5	7.8	
HCM Lane LOS		С	-	-	С	Α	
		_			_	, ,	

Intersection							
Int Delay, s/veh	4.1						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	ħβ			41∱	¥		
Traffic Vol, veh/h	1530	27	35	1543	14	29	
Future Vol, veh/h	1530	27	35	1543	14	29	
Conflicting Peds, #/hr	0	10	10	0	10	10	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	-	-	-	-	0	-	
Veh in Median Storage	, # 0	-	-	0	0	-	
Grade, %	0	_	-	0	0	-	
Peak Hour Factor	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	1663	29	38	1677	15	32	
							· ·
Major/Minor N	//ajor1	N	Major2	N	Minor1		
Conflicting Flow All	0	0	1702	0	2613	866	
Stage 1	-	-	-	-	1688	-	
Stage 2	-	-	-	-	925		
Critical Hdwy	-	_	4.14	-	6.84	6.94	
Critical Hdwy Stg 1	-	-	-	-	5.84	-	
Critical Hdwy Stg 2	-	-	-	-	5.84	-	
Follow-up Hdwy	-	-	2.22	-	3.52	3.32	
Pot Cap-1 Maneuver	-	-	370		20	297	
Stage 1	-	-	-		135	-	
Stage 2	-	-	-	-	347	-	
Platoon blocked, %	-	-		-			
Mov Cap-1 Maneuver	-	-	366	-	0	291	
Mov Cap-2 Maneuver	-	-	-		0	-	7
Stage 1	-	-	-	-	134	-	
Stage 2	-	-	-	-	0	-	
Approach	EB		WB		NB		
HCM Control Delay, s	0		7.8		19.7		
HCM LOS					С		
Minor Lane/Major Mvm	t	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)		291	-	-	366	-	
HCM Lane V/C Ratio		0.161	-	-	0.104	-	
HCM Control Delay (s)		19.7	-	-	16	7.6	
HCM Lane LOS		С	-	-	С	A	
HCM 95th %tile Q(veh)		0.6	-	-	0.3	-	

5.1 EBL													
EBL													
	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR		
	414			414			4			4			
49	1480	30	10	1515	12	4	25	14	19	1	59		
49	1480	30	10	1515	12	4	25	14	19	1	59		
10	0	10	10	0	10	10	0	10	10	0	10		
Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop		
-	-	None	-	-	None	-	-	None	-	-			
-	-	-	-	-	-	-	-	-	-	7	_		
# -	0	_	_	0	-	_	0	_	-	0	-		
_	0	_	_		_	_		_	-		-		
92		92	92		92	92		92	92		92		
00	1000	00	- ''	10-11	10			10	21	•	O-T		
laior1		N	Maior2		N	/linor1		N	Ainor2				
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4.14		-											
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	-	-			-								
	-	-		-									
381	-	-	387	-	-			308			304		
-	-	-	_	-	-						-		
-	-	-	-	-	-	319	147	-	286	137	-		
	-	-		-	-								
377	-	-	383	-	-	-		302	-		298		
-	-	-	-	-	-	-	0	-	-		-		
-	-	-	-	-	-		0	-	98	92	-		
-	-	-	-	-	-	153	91	-	-	0	-		
EB			WB			NB			SB				
7.7			2.8										
						_			_				
	IDI = 4	EDI	ГРТ	EDD	WDI	WDT	WDD (2DL ~4					
,	NBLNT		EBI	ERK		MRI	WBK (ORFUI					
	-		-	-		-	-	-					
	-		-	-		-	-	-					
	-			-			-	-					
	-	С	Α	-	В	Α	-	-					
	-	0.5	-	-	0.1	-	-	-					
acity	\$: De	lay exc	eeds 30)0s -	+: Comp	outation	Not De	efined	*: All	major v	olume ii	n platoon	
	10 Free	10 0 Free Free 0 92 92 2 2 2 53 1609 Major1 1670 0 377 EB 7.7	10 0 10 Free Free Free None	10 0 10 10 Free Free Free Free - None - None - O - O 92 92 92 92 2 2 2 2 2 53 1609 33 11 Major1 Major2 1670 0 0 1652 - O O O O 1652 - O O O O 1652 - O O O O O O O O O O O O O O O O O O O	10 0 10 10 0 Free Free Free Free Free None	10 0 10 10 0 10 Free Free Free Free Free Free Free - None - None None 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	10	10	10	The color of the	10	10	10

Intersection							
Int Delay, s/veh	10.7						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	ħβ			ተተቡ	¥		
Traffic Vol, veh/h	1488	25	25	1535	2	15	
Future Vol, veh/h	1488	25	25	1535	2	15	
Conflicting Peds, #/hr	0	10	10	0	10	10	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-			None	
Storage Length	_	-	_	-	0	-	
Veh in Median Storage	e,# 0	_	_	0	0	_	
Grade, %	0	_	_	0	0	_	
Peak Hour Factor	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	1617	27	27	1668	2	16	
WWW.CT IOW	1017	21	LI	1000		10	
Major/Minor	Major1	N	Major2	1	Minor1		
Conflicting Flow All	0	0	1654	0	2372	842	
Stage 1	-	-	-	-	1641	-	
Stage 2	-	-	-	-	731		
Critical Hdwy	-	_	4.14	_	6.29	6.94	
Critical Hdwy Stg 1	-	-	-	-	5.84	-	
Critical Hdwy Stg 2	-	-	-	-	6.04		
Follow-up Hdwy	-	-	2.22	-	3.67	3.32	
Pot Cap-1 Maneuver	-	-	386	_	41	308	
Stage 1	-	_	-	-	141	_	
Stage 2	-	_	-	-	408	-	
Platoon blocked, %	-	-		_			
Mov Cap-1 Maneuver	_	-	382	_	~ 1	302	
Mov Cap-2 Maneuver		_	-	_	~1	-	7
Stage 1	_	_	-	-	140	_	
Stage 2	-	-	_	-	13	_	
Clago 2					10		
Approach	EB		WB		NB		
HCM Control Delay, s	0		4.9	\$ 1	1494.4		
HCM LOS					F		
Minor Lane/Major Mvn	nt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)		8	_	-	382	-	
HCM Lane V/C Ratio		2.31	_	_	0.071	_	
HCM Control Delay (s) \$ '	1494.4	_	_	15.1	4.7	
HCM Lane LOS	Ψ	F.	_	_	C	A	
HCM 95th %tile Q(veh	1)	3.4	_	_	0.2	-	
•	'/	0.7			0.2		
Notes		Δ.			20		LC NUDC L *All
~: Volume exceeds ca	pacity	\$: De	lay exc	eeds 30	JUS	+: Com	outation Not Defined *: All major volume in platoon

Intersection							
Int Delay, s/veh	0.1						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	† 1>			ተተተ		7	
Traffic Vol, veh/h	1485	18	0	1560	0	10	
Future Vol, veh/h	1485	18	0	1560	0	10	
Conflicting Peds, #/hr	0	10	10	0	10	10	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	_	None	-		
Storage Length	-	-	-	-	-	0	
Veh in Median Storage	, # 0	-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	1614	20	0	1696	0	11	
Major/Minor	Major1	N	Major2	N	/linor1		
Conflicting Flow All	0	0	-	_	_	837	
Stage 1	-	-	_	_	-	-	
Stage 2	_	_	_	_	_		
Critical Hdwy	_	_	_	-	_	6.94	
Critical Hdwy Stg 1	-	-	-	-	-	-	
Critical Hdwy Stg 2	-	-	-	-	-		
Follow-up Hdwy	-	-	-	-	-	3.32	
Pot Cap-1 Maneuver	-	_	0		0	310	
Stage 1	-	-	0		0	-	
Stage 2	-	-	0	-	0	-	
Platoon blocked, %	-	-		-			
Mov Cap-1 Maneuver	-	-	-	-	-	304	
Mov Cap-2 Maneuver	-	-	-		-	-	7
Stage 1	-	-	-	-	-	-	
Stage 2	-	-	-	-	-	-	
Approach	EB		WB		NB		
HCM Control Delay, s	0		0		17.3		
HCM LOS					С		
Minor Lane/Major Mvm	nt I	NBLn1	EBT	EBR	WBT		
Capacity (veh/h)		304					
HCM Lane V/C Ratio		0.036	_	_	_		
HCM Control Delay (s)		17.3	_	_	_		
HCM Lane LOS		C	_	<u>-</u>	<u>-</u>		
HCM 95th %tile Q(veh)	0.1	_	_	_		
TOTAL COULT JULIO CALVOIT		J. 1					

Intersection													
Int Delay, s/veh	2.3												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	*	î,			4			4			4		
Traffic Vol, veh/h	33	525	31	21	521	14	6	12	26	6	18	31	
Future Vol, veh/h	33	525	31	21	521	14	6	12	26	6	18	31	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	_	-	None	-	-	None	-	-	None	
Storage Length	0	-	-	-	-	-	-	-	-	-		-	
Veh in Median Storage	e, # -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2		2	2	
Mvmt Flow	36	571	34	23	566	15	7	13	28	7	20	34	
Major/Minor I	Major1		ı	Major2			Minor1		I	Minor2			
Conflicting Flow All	581	0	0	605	0	0	1307	1287	588	1301	1297	574	
Stage 1	-	-	-	-	-	-	660	660		620	620	-	
Stage 2	-	-	-	-	-		647	627	-	681	677	-	
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22	
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318	
Pot Cap-1 Maneuver	993	-	-	973	-	-	137	164	509	138	162	518	
Stage 1	-	-	-		-	-	452	460	-	476	480	-	
Stage 2	-	-	-	-	-	-	460	476	-	440	452	-	
Platoon blocked, %		-	-		7-	-							
Mov Cap-1 Maneuver	993	-	-	973		-	109	153	509	115	151	518	
Mov Cap-2 Maneuver	-	-	-				109	153	-	115	151	-	
Stage 1	-	-	-	-	-	-	436	443	-	459	463	-	
Stage 2	-	-	-	-	-	-	397	459	-	389	436	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	0.5			0.3			23.9			25.1			
HCM LOS							С			D			
Minor Lane/Major Mvm	nt .	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR :	SRI n1				
	IL		993		EDR -	973		VVDR -					
Capacity (veh/h) HCM Lane V/C Ratio		238 0.201		-			-		238 0.251				
				-	-	0.023	-	-					
HCM Control Delay (s) HCM Lane LOS		23.9 C	8.8 A	-	-	8.8	0		25.1 D				
HCM 95th %tile Q(veh)	١	0.7	0.1	-	-	0.1	A -	-	ں 1				
HOW SOUL JOINE CALABIT)	0.7	0.1	_	-	0.1	-	-					

Intersection							
Int Delay, s/veh	1.1						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		4	4		¥		
Traffic Vol, veh/h	14	426	297	35	35	18	
Future Vol, veh/h	14	426	297	35	35	18	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	-	-	-	-	0	-	
Veh in Median Storage	, # -	0	0	-	0	-	
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	15	463	323	38	38	20	
							· ·
Major/Minor I	Major1	<u> </u>	Major2	<u> </u>	Minor2		
Conflicting Flow All	361	0	-	0	835	342	
Stage 1	-	_	-	_	342	-	
Stage 2	-	-	-	-	493		
Critical Hdwy	4.12	-	_	-	6.42	6.22	
Critical Hdwy Stg 1	-	-	-	-	5.42	-	
Critical Hdwy Stg 2	-	-	-	-	5.42	-	
Follow-up Hdwy	2.218	-	-	-	3.518	3.318	
Pot Cap-1 Maneuver	1198	-	-	_	338	701	
Stage 1	-	-	-	_	719	-	
Stage 2	-	-	-	-	614	-	
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuver	1198	-	-	-	332	701	
Mov Cap-2 Maneuver	-	-	-	-	332	-	
Stage 1	-	-	-	-	707	-	
Stage 2	-	-	_	-	614	-	
Approach	EB		WB		SB		
HCM Control Delay, s	0.3		0		15.4		
HCM LOS					С		
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR	SBLn1	
Capacity (veh/h)		1198	-	_	-	404	
HCM Lane V/C Ratio		0.013	_	_	_	0.143	
HCM Control Delay (s)		8	0	-	_	15.4	
HCM Lane LOS		A	A	_	_	C	
HCM 95th %tile Q(veh))	0	-	_	-	0.5	
						3.0	

Intersection													J
Int Delay, s/veh	5.1												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	LDL	4	LDI	1100	4	אפוו	TIDE	4	אפא	ODL	4	אופט	
Traffic Vol, veh/h	2	47	5	5	47	9	7	32	11	27	20	15	
Future Vol, veh/h	2	47	5	5	47	9	7	32	11	27	20	15	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	_	-	None	_	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	-	-	-	-	-	7	-	
Veh in Median Storage	, # -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	2	51	5	5	51	10	8	35	12	29	22	16	
Major/Minor N	Major1			Major2		_	Minor1			Minor2			
Conflicting Flow All	61	0	0	56	0	0	143	129	54	147	126	56	
Stage 1	-	-	-	-	-	-	58	58		66	66	-	
Stage 2	-	-	_	_	-		85	71	-	81	60	_	
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22	
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Critical Hdwy Stg 2	-	-	_	-	_	-	6.12	5.52		6.12	5.52	-	
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318	
Pot Cap-1 Maneuver	1542	-	-	1549	-	-	826	762	1013	821	764	1011	
Stage 1	-	-	-	-	-	-	954	847	-	945	840	-	
Stage 2	-	-	-	-	-	-	923	836	-	927	845	-	
Platoon blocked, %		-	-		-	-							
Mov Cap-1 Maneuver	1542	-	-	1549		-	792	759	1013	781	761	1011	
Mov Cap-2 Maneuver	-	-	-		-	_	792	759	-	781	761	-	
Stage 1	-	-	-	-	-	-	953	846	-	944	837	-	
Stage 2	-	-	-	-	-	-	882	833	-	878	844	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	0.3			0.6			9.8			9.8			
HCM LOS							Α			Α			
Minor Lane/Major Mvm	t	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1				
Capacity (veh/h)		808	1542	-		1549	-	-					
HCM Lane V/C Ratio		0.067		_		0.004	_	_	0.082				
HCM Control Delay (s)		9.8	7.3	0	-	7.3	0	-	9.8				
HCM Lane LOS		A	Α	A	-	A	A	-	A				
HCM 95th %tile Q(veh)		0.2	0	-	-	0	-	-	0.3				

Intersection													
Int Delay, s/veh	4.5												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4			4			4		
Traffic Vol, veh/h	7	70	8	10	36	5	10	31	6	12	14	15	
Future Vol, veh/h	7	70	8	10	36	5	10	31	6	12	14	15	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	-	-	-	-	-		-	
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-		-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2		2	2	
Mvmt Flow	8	76	9	11	39	5	11	34	7	13	15	16	
Major/Minor I	Major1			Major2			Minor1			Minor2			
Conflicting Flow All	44	0	0	85	0	0	176	163	81	181	165	42	
Stage 1	-	-		-	-	-	97	97	-	64	64	-	
Stage 2	_	_	<u>-</u>	_	_	_	79	66		117	101	_	
Critical Hdwy	4.12	_	-	4.12	_	-	7.12	6.52	6.22	7.12	6.52	6.22	
Critical Hdwy Stg 1	-	_	_	-	_	-	6.12	5.52	-	6.12	5.52	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52		6.12	5.52	-	
Follow-up Hdwy	2.218	_	_	2.218	-	-	3.518	4.018	3.318		4.018	3.318	
Pot Cap-1 Maneuver	1564	_	_	1512	_	-	786	729	979	781	728	1029	
Stage 1		-	-		-	_	910	815	-	947	842		
Stage 2	-	-	-	-	-	-	930	840	-	888	811	-	
Platoon blocked, %		-	-		7-	-							
Mov Cap-1 Maneuver	1564	-	-	1512	-	-	754	720	979	741	719	1029	
Mov Cap-2 Maneuver	-	-	-	_	-	-	754	720	-	741	719	-	
Stage 1	-	-	-	-	-	-	905	811	-	942	836	-	
Stage 2	-	-	-	-	-	-	892	834	-	841	807	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	0.6			1.5			10.1			9.7			
HCM LOS	3.0						В			A			
250													
Minor Lane/Major Mvm	nt N	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1				
Capacity (veh/h)		753	1564			1512			816				
HCM Lane V/C Ratio		0.068	0.005	_	_	0.007	_	_	0.055				
HCM Control Delay (s)		10.1	7.3	0		7.4	0		9.7				
HCM Lane LOS		В	Α.5	A	_	Α	A	_	3.7 A				
HCM 95th %tile Q(veh))	0.2	0	-		0	-		0.2				
TOWN JOHN JOHN Q VOID		0.2	- 0			- 0			0.2				

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Lane Group	EBL	EBT	EBR	WBL2	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations		4				4			4			4
Traffic Volume (vph)	10	330	5	5	15	224	13	5	29	33	10	35
Future Volume (vph)	10	330	5	5	15	224	13	5	29	33	10	35
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00				1.00			0.98			0.98
Frt		0.998				0.993			0.933			0.949
Flt Protected		0.999				0.996			0.997			0.993
Satd. Flow (prot)	0	1856	0	0	0	1839	0	0	1706	0	0	1728
Flt Permitted		0.989				0.961			0.967			0.937
Satd. Flow (perm)	0	1837	0	0	0	1773	0	0	1654	0	0	1628
Right Turn on Red							Yes			Yes		
Satd. Flow (RTOR)						8			36			22
Link Speed (mph)		25				25			25			25
Link Distance (ft)		458				415			336			350
Travel Time (s)		12.5				11.3			9.2	•		9.5
Confl. Peds. (#/hr)	10	1_10	10	10	10		10	10	• • • • • • • • • • • • • • • • • • • •	10	10	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	11	359	5	5	16	243	14	5	32	36	11	38
Shared Lane Traffic (%)									<u> </u>			
Lane Group Flow (vph)	0	375	0	0	0	278	0	0	73	0	0	79
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Left	Right	Left	Left	Right	Left	Left
Median Width(ft)		0			=\$.,	0	g		0			0
Link Offset(ft)		0				0			0			0
Crosswalk Width(ft)		16				16			16			16
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15	15		9	15		9	15	
Number of Detectors	1	2		1	1	2		1	2		1	2
Detector Template	Left	Thru		Left	Left	Thru		Left	Thru		Left	Thru
Leading Detector (ft)	20	100		20	20	100		20	100		20	100
Trailing Detector (ft)	0	0		0	0	0		0	0		0	0
Detector 1 Position(ft)	0	0		0	0	0		0	0		0	0
Detector 1 Size(ft)	20	6		20	20	6		20	6		20	6
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex
Detector 1 Channel				· ·	· ·							
Detector 1 Extend (s)	0.0	0.0		0.0	0.0	0.0		0.0	0.0		0.0	0.0
Detector 1 Queue (s)	0.0	0.0		0.0	0.0	0.0		0.0	0.0		0.0	0.0
Detector 1 Delay (s)	0.0	0.0		0.0	0.0	0.0		0.0	0.0		0.0	0.0
Detector 2 Position(ft)		94		0.0	0.0	94		0.0	94		0.0	94
Detector 2 Size(ft)		6				6			6			6
Detector 2 Type		CI+Ex				CI+Ex			CI+Ex			CI+Ex
Detector 2 Channel		OI EX				OI Z			OI ZX			OI ZX
Detector 2 Extend (s)		0.0				0.0			0.0			0.0
Turn Type	Perm	NA		Perm	Perm	NA		Perm	NA		Perm	NA
Protected Phases	. 51111	4		. 51111	. 31117	8		. 01111	2		. 31111	6
Permitted Phases	4			8	8	0		2			6	J
Detector Phase	4	4		8	8	8		2	2		6	6
23(00(0) 1 11000	Т	7		U	U	J		_	_		U	

7: Park Dr & Franklin Ave & Washington Blvd

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Lane Group	SBR	SBR2
LaneConfigurations		
Traffic Volume (vph)	7	20
Future Volume (vph)	7	20
Ideal Flow (vphpl)	1900	1900
Lane Util. Factor	1.00	1.00
Ped Bike Factor		
Frt		
Flt Protected		
Satd. Flow (prot)	0	0
Flt Permitted		
Satd. Flow (perm)	0	0
Right Turn on Red		Yes
Satd. Flow (RTOR)		
Link Speed (mph)		
Link Distance (ft)		
Travel Time (s)		
Confl. Peds. (#/hr)	10	10
Peak Hour Factor	0.92	0.92
Adj. Flow (vph)	8	22
Shared Lane Traffic (%)		
Lane Group Flow (vph)	0	0
Enter Blocked Intersection	No	No
Lane Alignment	Right	Right
Median Width(ft)		
Link Offset(ft)		
Crosswalk Width(ft)		
Two way Left Turn Lane		
Headway Factor	1.00	1.00
Turning Speed (mph)	9	9
Number of Detectors		
Detector Template		
Leading Detector (ft)		
Trailing Detector (ft)		
Detector 1 Position(ft)		
Detector 1 Size(ft)		
Detector 1 Type		
Detector 1 Channel		
Detector 1 Extend (s)		
Detector 1 Queue (s)		
Detector 1 Delay (s)		
D . ((0 D (f))		

Detector 2 Position(ft)
Detector 2 Size(ft)
Detector 2 Type
Detector 2 Channel
Detector 2 Extend (s)

Turn Type Protected Phases Permitted Phases Detector Phase

7: Park Dr & Franklin Ave & Washington Blvd

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Lane Group	EBL	EBT	EBR	WBL2	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0	5.0		5.0	5.0		5.0	5.0
Minimum Split (s)	14.0	14.0		14.0	14.0	14.0		14.0	14.0		14.0	14.0
Total Split (s)	23.0	23.0		23.0	23.0	23.0		17.0	17.0		17.0	17.0
Total Split (%)	57.5%	57.5%		57.5%	57.5%	57.5%		42.5%	42.5%		42.5%	42.5%
Maximum Green (s)	17.0	17.0		17.0	17.0	17.0		11.0	11.0		11.0	11.0
Yellow Time (s)	4.5	4.5		4.5	4.5	4.5		4.5	4.5		4.5	4.5
All-Red Time (s)	1.5	1.5		1.5	1.5	1.5		1.5	1.5		1.5	1.5
Lost Time Adjust (s)		0.0				0.0			0.0			0.0
Total Lost Time (s)		6.0				6.0			6.0			6.0
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0		3.0	3.0		3.0	3.0
Recall Mode	Max	Max		Max	Max	Max		None	None		None	None
Walk Time (s)	7.0	7.0		7.0	7.0	7.0		7.0	7.0		7.0	7.0
Flash Dont Walk (s)	11.0	11.0		11.0	11.0	11.0		11.0	11.0		11.0	11.0
Pedestrian Calls (#/hr)	0	0		0	0	0		0	0		0	0
Act Effct Green (s)		26.4				26.4			6.9			6.9
Actuated g/C Ratio		0.69				0.69			0.18			0.18
v/c Ratio		0.30				0.23			0.22			0.25
Control Delay		6.3				5.8			9.8			12.2
Queue Delay		0.0				0.0			0.0			0.0
Total Delay		6.3				5.8			9.8			12.2
LOS		Α				Α			Α			В
Approach Delay		6.3				5.8			9.8			12.2
Approach LOS		A				Α			Α			В
Intersection Summary												
Area Type:	Other			7								
Cycle Length: 40												
Actuated Cycle Length: 38	3.4											
Natural Cycle: 40												
Control Type: Semi Act-III	ncoord											

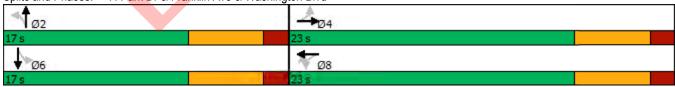
Control Type: Semi Act-Uncoord

Maximum v/c Ratio: 0.30

Intersection Signal Delay: 7.0 Intersection LOS: A Intersection Capacity Utilization 50.6% ICU Level of Service A

Analysis Period (min) 15

Splits and Phases: 7: Park Dr & Franklin Ave & Washington Blvd







Lane Group	SBR	SBR2
Switch Phase	ODIT	ODIVE
Minimum Initial (s)		
Minimum Split (s)		
Total Split (s)		
Total Split (%)		
Maximum Green (s)		
Yellow Time (s)		
All-Red Time (s)		
Lost Time Adjust (s)		
Total Lost Time (s)		
Lead/Lag		
Lead-Lag Optimize?		
Vehicle Extension (s)		
Recall Mode		
Walk Time (s)		
Flash Dont Walk (s)		
Pedestrian Calls (#/hr)		
Act Effct Green (s)		
Actuated g/C Ratio		
v/c Ratio		
Control Delay		
Queue Delay		
Total Delay		
LOS		
Approach Delay		
Approach LOS		
Intersection Summary		

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		र्स	7		ર્ન	7		ની	7		ર્ન	7
Traffic Volume (vph)	68	276	5	4	189	81	5	184	16	136	84	69
Future Volume (vph)	68	276	5	4	189	81	5	184	16	136	84	69
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		75	0		75	0		75	0		75
Storage Lanes	0		1	0		1	0		1	0		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00	0.97		1.00	0.97		1.00	0.97		0.99	0.97
Frt			0.850			0.850			0.850			0.850
Flt Protected		0.990			0.999			0.999			0.970	
Satd. Flow (prot)	0	1844	1583	0	1861	1583	0	1861	1583	0	1807	1583
Flt Permitted	•	0.890	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		0.990			0.986			0.697	,,,,,
Satd. Flow (perm)	0	1654	1528	0	1844	1528	0	1836	1528	0	1289	1528
Right Turn on Red	•		Yes			Yes		.000	Yes		00	Yes
Satd. Flow (RTOR)			61			86			61	<u> </u>		73
Link Speed (mph)		25	V.		25			25	O1		25	70
Link Distance (ft)		450			2667			1328			1233	
Travel Time (s)		12.3			72.7			36.2			33.6	
Confl. Peds. (#/hr)	10	12.0	10	10	12.1	10	10	00.2	10	10	00.0	10
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Adj. Flow (vph)	72	294	5	4	201	86	5	196	17	145	89	73
Shared Lane Traffic (%)	12	234	3		201	00	J	130	17	170	03	73
Lane Group Flow (vph)	0	366	5	0	205	86	0	201	17	0	234	73
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	Leit	0	Right	Leit	0	Right	LGIL	0	Right	Leit	0	Night
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane		10			710			10			10	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	1.00	1.00	9	1.00	1.00	9	1.00	1.00	9	1.00	1.00	9
Number of Detectors	1	2	1	13	2	1	13	2	1	1	2	9
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Leading Detector (ft)	20	100	20	20	100	20	20	100	20	20	100	20
Trailing Detector (ft)	0	0	0	0	0	0	0	0	0	0	0	0
Detector 1 Position(ft)	0	0	0	0	0	0	0	0	0	0	0	0
	20	6	20	20	6	20	20	6	20	20	6	20
Detector 1 Size(ft)				Cl+Ex	Cl+Ex							
Detector 1 Type	CI+Ex	Cl+Ex	Cl+Ex	CI+EX	UI+EX	Cl+Ex	CI+Ex	CI+Ex	Cl+Ex	Cl+Ex	Cl+Ex	CI+Ex
Detector 1 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			CI+Ex			CI+Ex			CI+Ex	
Detector 2 Channel					2.2			2.2			2.2	
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA	Perm	Perm	NA	Perm	Perm	NA	Perm	Perm	NA	Perm

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Protected Phases		4			8			2			6	
Permitted Phases	4		4	8		8	2		2	6		6
Detector Phase	4	4	4	8	8	8	2	2	2	6	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Total Split (s)	30.0	30.0	30.0	30.0	30.0	30.0	24.0	24.0	24.0	24.0	24.0	24.0
Total Split (%)	55.6%	55.6%	55.6%	55.6%	55.6%	55.6%	44.4%	44.4%	44.4%	44.4%	44.4%	44.4%
Maximum Green (s)	24.0	24.0	24.0	24.0	24.0	24.0	18.0	18.0	18.0	18.0	18.0	18.0
Yellow Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
All-Red Time (s)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Lost Time Adjust (s)		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0
Total Lost Time (s)		6.0	6.0		6.0	6.0		6.0	6.0		6.0	6.0
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	None	None	None	None	None	None	None	None	None	None
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Flash Dont Walk (s)	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Pedestrian Calls (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Act Effct Green (s)		15.3	15.3		15.3	15.3		12.5	12.5		12.9	12.9
Actuated g/C Ratio		0.42	0.42		0.42	0.42		0.34	0.34		0.35	0.35
v/c Ratio		0.53	0.01		0.27	0.13		0.32	0.03		0.52	0.12
Control Delay		13.2	0.0		10.0	3.2		13.1	0.1		17.2	4.5
Queue Delay		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0
Total Delay		13.2	0.0		10.0	3.2		13.1	0.1		17.2	4.5
LOS		В	A		A	Α		В	Α		В	A
Approach Delay		13.0			8.0			12.1			14.2	
Approach LOS		В			А			В			В	
		_			, ,							
Intersection Summary												
Area Type:	Other											
Cycle Length: 54												
Actuated Cycle Length: 36.	7											
Natural Cycle: 40												
Control Type: Actuated-Und	coordinated											
Maximum v/c Ratio: 0.53												
Intersection Signal Delay: 1					ntersectio							
Intersection Capacity Utiliza	ition 74.0%			IC	CU Level	of Service	e D					
Analysis Period (min) 15	Y											
Splits and Phases: 8: Lat	hrop Ave 8	Washing	ton Blvd									
↑ Ø2				94	104							
24 s				30 s	i –							
↓ Ø6				+	Ø8							

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	1→		ሻ	1 >		Ť	î,		7	4	
Traffic Volume (vph)	25	402	34	39	429	56	46	291	49	146	284	50
Future Volume (vph)	25	402	34	39	429	56	46	291	49	146	284	50
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	100		0	100		0	85		0	85		0
Storage Lanes	1		0	1		0	1		0	1		0
Taper Length (ft)	115			115			100			70		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	1.00		0.99	1.00		0.99	0.99		0.99	0.99	
Frt		0.988			0.983			0.978			0.978	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	1835	0	1770	1823	0	1770	1811	0	1770	1811	0
Flt Permitted	0.286			0.301			0.431			0.343		
Satd. Flow (perm)	529	1835	0	556	1823	0	794	1811	0	632	1811	0
Right Turn on Red			Yes		7020	Yes			Yes			Yes
Satd. Flow (RTOR)		6			9			12		•	12	
Link Speed (mph)		30			30			25			25	
Link Distance (ft)		824			2952			527			2095	
Travel Time (s)		18.7			67.1			14.4			57.1	
Confl. Peds. (#/hr)	10	10.7	10	10	07.1	10	10		10	10	07.1	10
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	26	410	35	40	438	57	47	297	50	149	290	51
Shared Lane Traffic (%)	20	110	00	10	100		- 17	201	00	110	200	V I
Lane Group Flow (vph)	26	445	0	40	495	0	47	347	0	149	341	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	Loit	12	rugin	Lon	12	rugiit	Lon	12	rugiit	Loit	12	rugiit
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane		10										
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	1.00	9	15	1.00	9	15	1.00	9	15	1.00	9
Number of Detectors	1	2		1	2	•	1	2	•	1	2	v
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex	
Detector 1 Channel	OITEX	OIILX		OITEX	OITEX		OIILX	OIILX		OITEX	OIILX	
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)	0.0	94		0.0	94		0.0	94		0.0	94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		CI+Ex			CI+Ex			CI+Ex			CI+Ex	
Detector 2 Type Detector 2 Channel		CITEX			CITEX			CITEX			CITEX	
		0.0			0.0			0.0			0.0	
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	pm+pt	NA		pm+pt	NA		pm+pt	NA		pm+pt	NA	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Protected Phases	5	2		1	6		7	4		3	8	
Permitted Phases	2			6			4			8		
Detector Phase	5	2		1	6		7	4		3	8	
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	9.0	14.0		9.0	14.0		9.0	14.0		9.0	14.0	
Total Split (s)	9.5	27.0		9.5	27.0		9.5	27.0		9.5	27.0	
Total Split (%)	13.0%	37.0%		13.0%	37.0%		13.0%	37.0%		13.0%	37.0%	
Maximum Green (s)	6.0	21.0		6.0	21.0		6.0	21.0		6.0	21.0	
Yellow Time (s)	3.5	4.5		3.5	4.5		3.5	4.5		3.5	4.5	
All-Red Time (s)	0.0	1.5		0.0	1.5		0.0	1.5		0.0	1.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	3.5	6.0		3.5	6.0		3.5	6.0		3.5	6.0	
Lead/Lag	Lead	Lag		Lead	Lag		Lead	Lag		Lead	Lag	
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes	Yes		Yes	Yes	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	Max		None	Max		None	None		None	None	
Walk Time (s)		7.0			7.0			7.0			7.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effct Green (s)	27.7	21.9		28.3	23.6		23.5	16.4		24.3	18.6	
Actuated g/C Ratio	0.44	0.35		0.45	0.37		0.37	0.26		0.39	0.30	
v/c Ratio	0.07	0.69		0.11	0.72		0.12	0.72		0.42	0.63	
Control Delay	11.5	28.8		11.7	28.8		12.1	31.1		15.9	26.3	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	11.5	28.8		11.7	28.8		12.1	31.1		15.9	26.3	
LOS	В	C		В	C		В	С		В	С	
Approach Delay		27.8			27.6			28.8			23.1	
Approach LOS		С			C			С			С	

Intersection Summary

Area Type: Other

Cycle Length: 73

Actuated Cycle Length: 63

Natural Cycle: 65

Control Type: Actuated-Uncoordinated

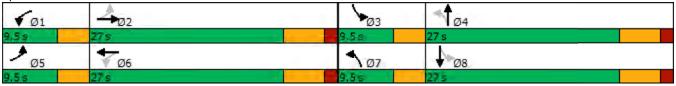
Maximum v/c Ratio: 0.72

Intersection Signal Delay: 26.7
Intersection Capacity Utilization 72.3%

Intersection LOS: C
ICU Level of Service C

Analysis Period (min) 15





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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	†	7	Ţ	†	7	7	1}		7	ĵ»	
Traffic Volume (vph)	33	467	97	115	393	50	127	281	55	67	240	4
Future Volume (vph)	33	467	97	115	393	50	127	281	55	67	240	4
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	100		120	75		120	75		0	75		0
Storage Lanes	1		1	1		1	1		0	1		0
Taper Length (ft)	105			105			60			75		-
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor	0.98		0.95	0.99		0.94	0.98	1.00		0.99	1.00	1100
Frt	0.00		0.850	0.00		0.850	0.00	0.975		0.00	0.998	
Flt Protected	0.950		0.000	0.950		0.000	0.950	0.0.0		0.950	0.000	
Satd. Flow (prot)	1770	1863	1583	1770	1863	1583	1770	1808	0	1770	1858	0
Flt Permitted	0.443	1000	1000	0.313	1000	1000	0.353	1000		0.226	1000	Ū
Satd. Flow (perm)	811	1863	1507	578	1863	1481	647	1808	0	418	1858	0
Right Turn on Red	011	1000	Yes	010	1000	Yes	047	1000	Yes	410	1000	Yes
Satd. Flow (RTOR)			106			106		9	103		1	103
Link Speed (mph)		30	100		30	100		25			25	
Link Opeca (mpn) Link Distance (ft)		2952			1318			470			1333	
Travel Time (s)		67.1			30.0			12.8			36.4	
Confl. Peds. (#/hr)	16	07.1	10	10	30.0	16	10	12.0	10	10	30.4	10
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	35	502	104	124	423	54	137	302	59	72	258	0.93
Shared Lane Traffic (%)	33	302	104	124	423	34	137	302	33	12	250	4
Lane Group Flow (vph)	35	502	104	124	423	54	137	361	0	72	262	0
Enter Blocked Intersection	No	No	No	No	No No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	Leit	12	Rigiti	Leit	12	Night	Leit	12	Rigit	Leit	12	Right
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane		10			V 10			10			10	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	1.00	1.00	9	1.00	1.00	9	1.00	1.00	9	1.00	1.00	9
Number of Detectors	1	2	1	1	2	1	1	2	9	1	2	3
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru		Left	Thru	
Leading Detector (ft)	20	100	20	20	100	20	20	100		20	100	
Trailing Detector (ft)	0	0	0	0	0	0	0	0		0	0	
Detector 1 Position(ft)	0	0	0	0	0	0	0	0		0	0	
Detector 1 Size(ft)	20	6	20	20	6	20	20	6		20	6	
Detector 1 Type	CI+Ex	CI+Ex	CI+Ex	Cl+Ex	Cl+Ex	CI+Ex	CI+Ex	Cl+Ex		CI+Ex	Cl+Ex	
Detector 1 Channel	CITLA	CITLX	CITLX	CITLX	CITLX	CITLX	OITLX	CITLX		CITLX	CITLX	
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
()	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 1 Delay (s) Detector 2 Position(ft)	0.0	94	0.0	0.0	94	0.0	0.0	94		0.0	94	
. ,												
Detector 2 Size(ft)		6 CL Ev			6 CL Ev			6 CL Ev			6 Cl. Ev	
Detector 2 Type		CI+Ex			CI+Ex			CI+Ex			Cl+Ex	
Detector 2 Channel		0.0			0.0			0.0			0.0	
Detector 2 Extend (s)		0.0	D		0.0	D		0.0			0.0	
Turn Type	pm+pt	NA	Perm	pm+pt	NA	Perm	pm+pt	NA		pm+pt	NA	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Protected Phases	5	2		1	6		7	4		3	8	
Permitted Phases	2		2	6		6	4			8		
Detector Phase	5	2	2	1	6	6	7	4		3	8	
Switch Phase												
Minimum Initial (s)	4.0	5.0	5.0	4.0	5.0	5.0	4.0	5.0		4.0	5.0	
Minimum Split (s)	10.0	14.0	14.0	10.0	14.0	14.0	10.0	14.0		10.0	14.0	
Total Split (s)	10.5	53.0	53.0	10.5	53.0	53.0	10.5	29.0		10.5	29.0	
Total Split (%)	10.2%	51.5%	51.5%	10.2%	51.5%	51.5%	10.2%	28.2%		10.2%	28.2%	
Maximum Green (s)	7.0	47.0	47.0	7.0	47.0	47.0	7.0	23.0		7.0	23.0	
Yellow Time (s)	3.5	4.5	4.5	3.5	4.5	4.5	3.5	4.5		3.5	4.5	
All-Red Time (s)	0.0	1.5	1.5	0.0	1.5	1.5	0.0	1.5		0.0	1.5	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Lost Time (s)	3.5	6.0	6.0	3.5	6.0	6.0	3.5	6.0		3.5	6.0	
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag		Lead	Lag	
Lead-Lag Optimize?	Yes		Yes	Yes								
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	
Recall Mode	None	Max	Max	None	Max	Max	None	None		None	None	
Walk Time (s)		7.0	7.0		7.0	7.0		7.0			7.0	
Flash Dont Walk (s)		11.0	11.0		11.0	11.0		11.0			11.0	
Pedestrian Calls (#/hr)		0	0		0	0		0			0	
Act Effct Green (s)	55.9	47.1	47.1	58.1	51.5	51.5	30.9	22.9		29.9	20.6	
Actuated g/C Ratio	0.56	0.47	0.47	0.58	0.51	0.51	0.31	0.23		0.30	0.20	
v/c Ratio	0.07	0.58	0.14	0.30	0.44	0.07	0.49	0.86		0.34	0.69	
Control Delay	9.6	23.5	3.6	11.5	19.2	0.4	31.1	58.5		27.4	46.8	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Delay	9.6	23.5	3.6	11.5	19.2	0.4	31.1	58.5		27.4	46.8	
LOS	Α	C	Α	В	В	Α	С	E		С	D	
Approach Delay		19.5			15.9			51.0			42.6	
Approach LOS		В			В			D			D	

Intersection Summary

Area Type: Other

Cycle Length: 103

Actuated Cycle Length: 100.6

Natural Cycle: 70

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.86

Intersection Signal Delay: 29.7
Intersection Capacity Utilization 69.6%

Intersection LOS: C ICU Level of Service C

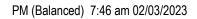
Analysis Period (min) 15

Splits and Phases: 14: Lathrop Ave & Lake St



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	Ť	^	7	7	1		ሻ	↑ ↑		7	^	7
Traffic Volume (vph)	196	229	142	93	200	52	200	1031	67	60	1026	190
Future Volume (vph)	196	229	142	93	200	52	200	1031	67	60	1026	190
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	240		195	140		0	230		0	220		600
Storage Lanes	1		1	1		0	1		0	1		1
Taper Length (ft)	110			60			90			90		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	1.00
Ped Bike Factor	0.95		0.81	0.90	0.98			0.99				0.79
Frt			0.850		0.969			0.991				0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	1863	1583	1770	1762	0	1770	3443	0	1770	3505	1583
Flt Permitted	0.290			0.356			0.178			0.196		
Satd. Flow (perm)	512	1863	1283	597	1762	0	332	3443	0	365	3505	1253
Right Turn on Red	• • •	, , , ,	Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			145		9			6		•		194
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		562			578			877			703	
Travel Time (s)		12.8			13.1			19.9			16.0	
Confl. Peds. (#/hr)	47		80	80		47	51		36	36		51
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	2%	3%	2%	2%	3%	2%
Adj. Flow (vph)	200	234	145	95	204	53	204	1052	68	61	1047	194
Shared Lane Traffic (%)										<u> </u>		
Lane Group Flow (vph)	200	234	145	95	257	0	204	1120	0	61	1047	194
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12	1 9		12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2		1	2		1	2	1
Detector Template	Left	Thru	Right	Left	Thru		Left	Thru		Left	Thru	Right
Leading Detector (ft)	20	100	20	20	100		20	100		20	100	20
Trailing Detector (ft)	0	0	0	0	0		0	0		0	0	0
Detector 1 Position(ft)	0	0	0	0	0		0	0		0	0	0
Detector 1 Size(ft)	20	6	20	20	6		20	6		20	6	20
Detector 1 Type	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex	CI+Ex
Detector 1 Channel	OI LA	OI LX	OI LX	OI - EX	OI LX		OI LX	01		OI LX	OI ZX	OI LA
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	0.0
Detector 2 Position(ft)	0.0	94	0.0	0.0	94		0.0	94		0.0	94	0.0
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			CI+Ex			CI+Ex			CI+Ex	
Detector 2 Type Detector 2 Channel		OI LX			OI. LX			OI · LX			OI · LX	
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Dolector & Exterior (3)		0.0			0.0			0.0			0.0	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Type	pm+pt	NA	Perm	pm+pt	NA		pm+pt	NA		pm+pt	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases	4		4	8			2			6		6
Detector Phase	7	4	4	3	8		5	2		1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0		5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	11.0	14.0	14.0	11.0	14.0		11.0	14.0		11.0	14.0	14.0
Total Split (s)	12.5	43.0	43.0	12.5	43.0		16.5	64.0		16.5	64.0	64.0
Total Split (%)	9.2%	31.6%	31.6%	9.2%	31.6%		12.1%	47.1%		12.1%	47.1%	47.1%
Maximum Green (s)	9.0	37.0	37.0	9.0	37.0		13.0	58.0		13.0	58.0	58.0
Yellow Time (s)	3.5	4.5	4.5	3.5	4.5		3.5	4.5		3.5	4.5	4.5
All-Red Time (s)	0.0	1.5	1.5	0.0	1.5		0.0	1.5		0.0	1.5	1.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	3.5	6.0	6.0	3.5	6.0		3.5	6.0		3.5	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag		Lead	Lag		Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes		Yes	Yes		Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0		3.0	3.0	3.0
Recall Mode	None	None	None	None	None		None	C-Max		None	C-Max	C-Max
Walk Time (s)		7.0	7.0		7.0			7.0			7.0	7.0
Flash Dont Walk (s)		11.0	11.0		11.0			11.0			11.0	11.0
Pedestrian Calls (#/hr)		0	0		0			0			0	0
Act Effct Green (s)	36.4	24.9	24.9	35.7	24.6		89.4	78.0		80.9	71.2	71.2
Actuated g/C Ratio	0.27	0.18	0.18	0.26	0.18		0.66	0.57		0.59	0.52	0.52
v/c Ratio	0.91	0.69	0.41	0.41	0.79		0.59	0.57		0.21	0.57	0.26
Control Delay	82.6	62.0	10.1	40.1	68.1		17.1	21.3		11.8	25.2	3.9
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.4	0.0
Total Delay	82.6	62.0	10.1	40.1	68.1		17.1	21.3		11.8	25.6	3.9
LOS	F	E	В	D	E		В	С		В	С	А
Approach Delay		56.1			60.5			20.6			21.7	
Approach LOS		E			E			С			С	
Intersection Summary												
Area Type:	Other											
Cycle Length: 136												
Actuated Cycle Length: 13												
Offset: 59 (43%), Reference	ced to phase	2:NBTL	and 6:SB	TL, Start	of Green							
Natural Cycle: 70												
Control Type: Actuated-Co	ordinated											
Maximum v/c Ratio: 0.91												
Intersection Signal Delay:					ntersection							
Intersection Capacity Utiliz	cation 81.9%)		I	CU Level	of Service	e D					
Analysis Period (min) 15												
Splits and Phases: 16: H	Harlem Ave	& Lake S	t									
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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	4		*	1 >		7	1		ሻ	4	
Traffic Volume (vph)	140	328	55	45	249	60	44	308	20	122	380	106
Future Volume (vph)	140	328	55	45	249	60	44	308	20	122	380	106
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	75		0	75		0	100		0	0		0
Storage Lanes	1		0	1		0	1		0	1		0
Taper Length (ft)	180			50			125			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	0.99		0.99	0.99		0.99	1.00		0.99	0.99	
Frt		0.979			0.971			0.991			0.967	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	1813	0	1770	1795	0	1770	1842	0	1770	1786	0
Flt Permitted	0.457			0.336			0.368			0.443		
Satd. Flow (perm)	842	1813	0	620	1795	0	681	1842	0	817	1786	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		12			17			5			21	
Link Speed (mph)		25			25			25			25	
Link Distance (ft)		923			1595			2095			1328	
Travel Time (s)		25.2			43.5			57.1			36.2	
Confl. Peds. (#/hr)	10		10	10		10	10		10	10		10
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	143	335	56	46	254	61	45	314	20	124	388	108
Shared Lane Traffic (%)												
Lane Group Flow (vph)	143	391	0	46	315	0	45	334	0	124	496	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane					7							
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100	· ·	20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		CI+Ex			CI+Ex			CI+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		pm+pt	NA	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Protected Phases		4			8		5	2		1	6	
Permitted Phases	4			8			2			6		
Detector Phase	4	4		8	8		5	2		1	6	
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	14.0	14.0		14.0	14.0		11.0	14.0		11.0	14.0	
Total Split (s)	26.0	26.0		26.0	26.0		16.5	27.0		16.5	27.0	
Total Split (%)	37.4%	37.4%		37.4%	37.4%		23.7%	38.8%		23.7%	38.8%	
Maximum Green (s)	20.0	20.0		20.0	20.0		13.0	21.0		13.0	21.0	
Yellow Time (s)	4.5	4.5		4.5	4.5		3.5	4.5		3.5	4.5	
All-Red Time (s)	1.5	1.5		1.5	1.5		0.0	1.5		0.0	1.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	6.0	6.0		6.0	6.0		3.5	6.0		3.5	6.0	
Lead/Lag							Lead	Lag		Lead	Lag	
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		None	Max		None	Max	
Walk Time (s)	7.0	7.0		7.0	7.0			7.0			7.0	
Flash Dont Walk (s)	11.0	11.0		11.0	11.0			11.0			11.0	
Pedestrian Calls (#/hr)	0	0		0	0			0			0	
Act Effct Green (s)	16.8	16.8		16.8	16.8		28.9	21.5		31.9	24.6	
Actuated g/C Ratio	0.28	0.28		0.28	0.28		0.49	0.36		0.54	0.41	
v/c Ratio	0.60	0.75		0.26	0.61		0.10	0.50		0.22	0.66	
Control Delay	31.5	29.8		21.9	23.6		7.5	20.0		8.0	21.5	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	31.5	29.8		21.9	23.6		7.5	20.0		8.0	21.5	
LOS	С	C		С	C		Α	С		Α	С	
Approach Delay		30.2			23.4			18.5			18.8	
Approach LOS		С			C			В			В	
Intersection Summary												
Area Type:	Other											
Cycle Length: 69.5												
Actuated Cycle Length: 50	2											

Actuated Cycle Length: 59.3

Natural Cycle: 60

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.75

Intersection Signal Delay: 22.9
Intersection Capacity Utilization 74.1%

Intersection LOS: C
ICU Level of Service D

Analysis Period (min) 15

Splits and Phases: 19: Thatcher Ave & Chicago Ave



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	, N	ĵ,		, Y	ĵ»		ň	4		7	ĵ.	
Traffic Volume (vph)	17	450	42	45	330	25	42	256	54	20	205	15
Future Volume (vph)	17	450	42	45	330	25	42	256	54	20	205	15
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	90		0	90		0	75		0	75		0
Storage Lanes	1		0	1		0	1		0	1		0
Taper Length (ft)	90			100			115			115		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor	0.99	1.00		0.99	1.00		0.99	0.98		0.94	1.00	
Frt		0.987			0.989			0.974			0.990	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	1831	0	1770	1837	0	1770	1777	0	1770	1839	0
Flt Permitted	0.390			0.206			0.613			0.530		
Satd. Flow (perm)	719	1831	0	381	1837	0	1125	1777	0	929	1839	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		7			6			19			7	
Link Speed (mph)		25			25			25			25	
Link Distance (ft)		1322			1339			747			1341	
Travel Time (s)		36.1			36.5			20.4			36.6	
Confl. Peds. (#/hr)	10		13	13		10	10		49	49		10
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Adj. Flow (vph)	18	479	45	48	351	27	45	272	57	21	218	16
Shared Lane Traffic (%)												
Lane Group Flow (vph)	18	524	0	48	378	0	45	329	0	21	234	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane					7							
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100	•	20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			CI+Ex			CI+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		
Detector Phase	4	4		8	8		2	2		6	6	
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	14.0	14.0		14.0	14.0		14.0	14.0		14.0	14.0	
Total Split (s)	33.0	33.0		33.0	33.0		41.0	41.0		41.0	41.0	
Total Split (%)	44.6%	44.6%		44.6%	44.6%		55.4%	55.4%		55.4%	55.4%	
Maximum Green (s)	27.0	27.0		27.0	27.0		35.0	35.0		35.0	35.0	
Yellow Time (s)	4.5	4.5		4.5	4.5		4.5	4.5		4.5	4.5	
All-Red Time (s)	1.5	1.5		1.5	1.5		1.5	1.5		1.5	1.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	6.0	6.0		6.0	6.0		6.0	6.0		6.0	6.0	
Lead/Lag	0.0	0.0		0.0	0.0		-	0.0			0.0	
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		Max	Max		Max	Max	
Walk Time (s)	7.0	7.0		7.0	7.0		7.0	7.0		7.0	7.0	
Flash Dont Walk (s)	11.0	11.0		11.0	11.0		11.0	11.0		11.0	11.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)	23.8	23.8		23.8	23.8		35.1	35.1		35.1	35.1	
Actuated g/C Ratio	0.34	0.34		0.34	0.34		0.49	0.49		0.49	0.49	
v/c Ratio	0.07	0.85		0.38	0.61		0.08	0.37		0.05	0.26	
Control Delay	16.5	35.9		27.4	23.9		11.2	12.7		10.9	11.8	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	16.5	35.9		27.4	23.9		11.2	12.7		10.9	11.8	
LOS	В	D		C	C		В	В		В	В	
Approach Delay		35.3		J	24.3			12.5			11.7	
Approach LOS		D			C			В			В	
		5			. 0							
Intersection Summary												
Area Type:	Other											
Cycle Length: 74												
Actuated Cycle Length: 71												
Natural Cycle: 40												
Control Type: Semi Act-Un	coord											
Maximum v/c Ratio: 0.85												
Intersection Signal Delay: 2				Ir	ntersection	LOS: C						
Intersection Capacity Utiliza	ation 72.1%			10	CU Level of	of Service	e C					
Analysis Period (min) 15												
Splits and Phases: 21: L	athrop Ave	& Chicago) Ave									
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41 s						33 s						
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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	1	7	7	†	7	ሻ	↑ ↑		7	† }	
Traffic Volume (vph)	56	391	99	147	317	130	80	1005	149	90	1030	19
Future Volume (vph)	56	391	99	147	317	130	80	1005	149	90	1030	19
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	115		115	95		60	195		0	115		0
Storage Lanes	1		1	1		1	1		0	1		0
Taper Length (ft)	120			85			95			170		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	0.95
Ped Bike Factor	0.99		0.96			0.97		0.99			1.00	
Frt			0.850			0.850		0.981			0.997	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	1863	1583	1770	1863	1583	1770	3448	0	1770	3525	0
Flt Permitted	0.358			0.162			0.122			0.085		
Satd. Flow (perm)	662	1863	1525	302	1863	1531	227	3448	0	158	3525	0
Right Turn on Red			Yes			Yes			Yes		00_0	Yes
Satd. Flow (RTOR)			86			86		15		•	2	
Link Speed (mph)		25			25			30			30	
Link Distance (ft)		1317			461			1347			1346	
Travel Time (s)		35.9			12.6			30.6			30.6	
Confl. Peds. (#/hr)	10		12	12		10	10		10	10		10
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	60	420	106	158	341	140	86	1081	160	97	1108	20
Shared Lane Traffic (%)		0	,,,,							•		
Lane Group Flow (vph)	60	420	106	158	341	140	86	1241	0	97	1128	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12	g		12			12	9
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2	1	1	2		1	2	
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru		Left	Thru	
Leading Detector (ft)	20	100	20	20	100	20	20	100		20	100	
Trailing Detector (ft)	0	0	0	0	0	0	0	0		0	0	
Detector 1 Position(ft)	0	0	0	0	0	0	0	0		0	0	
Detector 1 Size(ft)	20	6	20	20	6	20	20	6		20	6	
Detector 1 Type	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	Cl+Ex		CI+Ex	CI+Ex	
Detector 1 Channel		J,	J	J/.	J	J	J	J/.		J	J,	
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 2 Position(ft)	0.0	94	0.0	0.0	94	0.0	0.0	94		0.0	94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			CI+Ex			CI+Ex			CI+Ex	
Detector 2 Channel		OI'LX			OITEX			OFFER			OI'LX	
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	pm+pt	NA	Perm	pm+pt	NA	Perm	pm+pt	NA		pm+pt	NA	
rum rype	ριτι≖μι	INA	i eiiii	μπτμι	INA	i Cilli	ριτι≖μι	INA		ριτι≖μι	INA	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR SBI	SBT	SBR
Protected Phases	7	4		3	8		5	2	•	6	
Permitted Phases	4		4	8		8	2		(j	
Detector Phase	7	4	4	3	8	8	5	2	•	6	
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
Minimum Split (s)	11.0	14.0	14.0	11.0	14.0	14.0	11.0	14.0	11.0	14.0	
Total Split (s)	13.5	44.0	44.0	13.5	44.0	44.0	13.5	56.0	13.5	56.0	
Total Split (%)	10.6%	34.6%	34.6%	10.6%	34.6%	34.6%	10.6%	44.1%	10.6%	44.1%	
Maximum Green (s)	10.0	38.0	38.0	10.0	38.0	38.0	10.0	50.0	10.0	50.0	
Yellow Time (s)	3.5	4.5	4.5	3.5	4.5	4.5	3.5	4.5	3.5		
All-Red Time (s)	0.0	1.5	1.5	0.0	1.5	1.5	0.0	1.5	0.0		
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Total Lost Time (s)	3.5	6.0	6.0	3.5	6.0	6.0	3.5	6.0	3.5	6.0	
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	l Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		
Recall Mode	None	None	None	None	None	None	None	C-Max	None	C-Max	
Walk Time (s)		7.0	7.0		7.0	7.0		7.0		7.0	
Flash Dont Walk (s)		11.0	11.0		11.0	11.0		11.0		11.0	
Pedestrian Calls (#/hr)		0	0		0	0		0		0	
Act Effct Green (s)	43.7	33.2	33.2	47.4	36.9	36.9	67.2	56.4	67.7	56.6	
Actuated g/C Ratio	0.34	0.26	0.26	0.37	0.29	0.29	0.53	0.44	0.53		
v/c Ratio	0.20	0.86	0.23	0.70	0.63	0.28	0.39	0.81	0.5	0.72	
Control Delay	24.8	62.4	11.1	42.7	45.0	15.6	19.7	36.5	25.4		
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Total Delay	24.8	62.4	11.1	42.7	45.0	15.6	19.7	36.5	25.4		
LOS	С	E	В	D	D	В	В	D	(
Approach Delay		49.2			38.0			35.4		32.5	
Approach LOS		D			D			D		С	

Area Type: Other

Cycle Length: 127

Actuated Cycle Length: 127

Offset: 59 (46%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green

Natural Cycle: 90

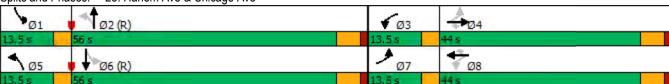
Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.86

Intersection Signal Delay: 37.0 Intersection LOS: D
Intersection Capacity Utilization 83.0% ICU Level of Service E

Analysis Period (min) 15





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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		*	† 1>		*	∱ Љ	
Traffic Volume (vph)	15	153	36	58	174	40	43	1070	78	60	1045	16
Future Volume (vph)	15	153	36	58	174	40	43	1070	78	60	1045	16
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		0	0		0	150		0	150		0
Storage Lanes	0		0	0		0	1		0	1		0
Taper Length (ft)	25			25			75			100		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	0.95
Ped Bike Factor		0.99			0.99			1.00			1.00	
Frt		0.976			0.980			0.990			0.998	
Flt Protected		0.996			0.989		0.950			0.950		
Satd. Flow (prot)	0	1800	0	0	1796	0	1770	3491	0	1770	3529	0
Flt Permitted		0.952			0.761		0.210			0.181		
Satd. Flow (perm)	0	1720	0	0	1379	0	391	3491	0	337	3529	0
Right Turn on Red	-		Yes			Yes			Yes		00_0	Yes
Satd. Flow (RTOR)		8			7			10		•	2	
Link Speed (mph)		25			25			30			30	
Link Distance (ft)		1777			369			1346			1322	
Travel Time (s)		48.5			10.1			30.6			30.0	
Confl. Peds. (#/hr)	11	10.0	10	10	10.1	11	10	00.0	10	10	00.0	10
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	15	156	37	59	178	41	44	1092	80	61	1066	16
Shared Lane Traffic (%)	10	100	O1	00	110		117	1002	00	V.	1000	10
Lane Group Flow (vph)	0	208	0	0	278	0	44	1172	0	61	1082	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0	3		0			12	· ··g···		12	
Link Offset(ft)		0			-15			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2	-	1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	Cl+Ex	
Detector 1 Channel	OI EIL	O. Ex		OI EX	O. LX		OI EX	OI EX		O. LX	OI LX	
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)	0.0	94		0.0	94		0.0	94		0.0	94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			CI+Ex			CI+Ex			Cl+Ex	
Detector 2 Channel		OI'LX			OITEX			OI'LX			OFFER	
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		pm+pt	NA	
rum rype	1 61111	INA		1 61111	INA		ριτι≖μι	INA		ριτι≖μι	INA	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Protected Phases		4			8		5	2		1	6	
Permitted Phases	4			8			2			6		
Detector Phase	4	4		8	8		5	2		1	6	
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	14.0	14.0		14.0	14.0		11.0	14.0		11.0	14.0	
Total Split (s)	36.0	36.0		36.0	36.0		13.5	76.0		13.5	76.0	
Total Split (%)	28.7%	28.7%		28.7%	28.7%		10.8%	60.6%		10.8%	60.6%	
Maximum Green (s)	30.0	30.0		30.0	30.0		10.0	70.0		10.0	70.0	
Yellow Time (s)	4.5	4.5		4.5	4.5		3.5	4.5		3.5	4.5	
All-Red Time (s)	1.5	1.5		1.5	1.5		0.0	1.5		0.0	1.5	
Lost Time Adjust (s)		0.0			0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)		6.0			6.0		3.5	6.0		3.5	6.0	
Lead/Lag							Lead	Lag		Lead	Lag	
Lead-Lag Optimize?							Yes	Yes		Yes	Yes	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		None	C-Max		None	C-Max	
Walk Time (s)	7.0	7.0		7.0	7.0			7.0			7.0	
Flash Dont Walk (s)	11.0	11.0		11.0	11.0			11.0			11.0	
Pedestrian Calls (#/hr)	0	0		0	0			0			0	
Act Effct Green (s)		26.9			26.9		85.9	78.0		86.6	78.4	
Actuated g/C Ratio		0.21			0.21		0.68	0.62		0.69	0.62	
v/c Ratio		0.55			0.92		0.13	0.54		0.20	0.49	
Control Delay		47.6			82.5		7.1	15.6		7.7	14.7	
Queue Delay		0.0			0.0		0.0	0.0		0.0	0.0	
Total Delay		47.6			82.5		7.1	15.6		7.7	14.7	
LOS		D			F		Α	В		Α	В	
Approach Delay		47.6			82.5			15.3			14.3	
Approach LOS		D			F			В			В	
Intersection Summary												

Area Type: Other

Cycle Length: 125.5

Actuated Cycle Length: 125.5

Offset: 45 (36%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green

Natural Cycle: 60

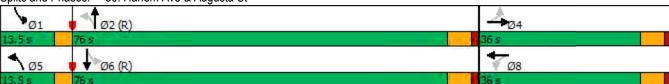
Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.92

Intersection Signal Delay: 23.9 Intersection LOS: C
Intersection Capacity Utilization 79.6% ICU Level of Service D

Analysis Period (min) 15





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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	₽		7	f		7	† 1>		*	† Þ	
Traffic Volume (vph)	67	322	72	119	215	90	79	956	90	93	930	38
Future Volume (vph)	67	322	72	119	215	90	79	956	90	93	930	38
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	110		0	90		0	180		0	140		0
Storage Lanes	1		0	1		0	1		0	1		0
Taper Length (ft)	75			115			95			90		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	0.95
Ped Bike Factor	0.99	0.99			0.99			1.00			1.00	
Frt		0.973			0.956			0.987			0.994	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	1802	0	1770	1763	0	1770	3477	0	1770	3510	0
Flt Permitted	0.368			0.157			0.188			0.144		
Satd. Flow (perm)	680	1802	0	292	1763	0	350	3477	0	268	3510	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		9			16			10			4	
Link Speed (mph)		25			25			30			30	
Link Distance (ft)		1311			467			1322			1352	
Travel Time (s)		35.8			12.7			30.0			30.7	
Confl. Peds. (#/hr)	10		10	10		10	10		10	10		10
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Adj. Flow (vph)	69	332	74	123	222	93	81	986	93	96	959	39
Shared Lane Traffic (%)		002										
Lane Group Flow (vph)	69	406	0	123	315	0	81	1079	0	96	998	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12	3		12			12			12	
Link Offset(ft)		0			-15			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2	-	1	2	•	1	2	-
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	Cl+Ex	
Detector 1 Channel		J/.		J	J		J,	J		J	J	
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)	0.0	94		0.0	94		0.0	94		0.0	94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			CI+Ex			CI+Ex			Cl+Ex	
Detector 2 Channel		OI'LX			OITEX			OI'LX			OFFER	
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	pm+pt	NA		pm+pt	NA		pm+pt	NA		pm+pt	NA	
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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases	4			8			2			6		
Detector Phase	7	4		3	8		5	2		1	6	
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	11.0	14.0		11.0	14.0		11.0	14.0		11.0	14.0	
Total Split (s)	13.5	41.0		13.5	41.0		13.5	61.0		13.5	61.0	
Total Split (%)	10.5%	31.8%		10.5%	31.8%		10.5%	47.3%		10.5%	47.3%	
Maximum Green (s)	10.0	35.0		10.0	35.0		10.0	55.0		10.0	55.0	
Yellow Time (s)	3.5	4.5		3.5	4.5		3.5	4.5		3.5	4.5	
All-Red Time (s)	0.0	1.5		0.0	1.5		0.0	1.5		0.0	1.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	3.5	6.0		3.5	6.0		3.5	6.0		3.5	6.0	
Lead/Lag	Lead	Lag		Lead	Lag		Lead	Lag		Lead	Lag	
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes	Yes		Yes	Yes	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		None	C-Max		None	C-Max	
Walk Time (s)		7.0			7.0			7.0			7.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effct Green (s)	42.9	31.9		45.5	35.0		70.6	60.0		72.0	62.3	
Actuated g/C Ratio	0.33	0.25		0.35	0.27		0.55	0.47		0.56	0.48	
v/c Ratio	0.23	0.90		0.58	0.64		0.29	0.67		0.39	0.59	
Control Delay	27.5	68.9		37.9	46.3		15.9	30.0		17.9	27.4	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	27.5	68.9		37.9	46.3		15.9	30.0		17.9	27.4	
LOS	С	E		D	D		В	С		В	С	
Approach Delay		62.9			43.9			29.0			26.5	
Approach LOS		Е			D			С			С	

Area Type: Other

Cycle Length: 129

Actuated Cycle Length: 129

Offset: 71 (55%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green

Natural Cycle: 80

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.90

Intersection Signal Delay: 35.3 Intersection LOS: D
Intersection Capacity Utilization 79.3% ICU Level of Service D

Analysis Period (min) 15

Splits and Phases: 36: Harlem Ave & Division St



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ř	^	7	ሻ	ተተ _ጉ		Ť	↑ ↑		Ť	∱ }	,
Traffic Volume (vph)	196	1408	450	79	1417	82	285	190	196	114	227	80
Future Volume (vph)	196	1408	450	79	1417	82	285	190	196	114	227	80
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	300		0	115		0	200		0	165		0
Storage Lanes	1		1	1		0	1		0	1		0
Taper Length (ft)	180			125			85			70		
Lane Util. Factor	1.00	0.95	1.00	1.00	0.91	0.91	1.00	0.95	0.95	1.00	0.95	0.95
Ped Bike Factor			0.96		1.00		0.99	0.98		0.99	0.99	
Frt			0.850		0.992			0.924			0.961	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	3539	1583	1770	5034	0	1770	3198	0	1770	3367	0
Flt Permitted	0.071			0.054			0.339			0.509		
Satd. Flow (perm)	132	3539	1523	101	5034	0	623	3198	0	937	3367	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			286		8			135		•	25	
Link Speed (mph)		30			30			25			25	
Link Distance (ft)		1334			336			347			340	
Travel Time (s)		30.3			7.6			9.5			9.3	
Confl. Peds. (#/hr)	10	00.0	10	10		10	10	0.0	12	12	0.0	10
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	211	1514	484	85	1524	88	306	204	211	123	244	86
Shared Lane Traffic (%)	211	1011	101		1021	00	000	201	211	120	211	00
Lane Group Flow (vph)	211	1514	484	85	1612	0	306	415	0	123	330	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	2011	12	rugin	LOIL	12	rugiit	Lon	12	i tigiit	Lon	12	rugiit
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane		10			10							
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2		1	2		1	2	
Detector Template	Left	Thru	Right	Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100	20	20	100		20	100		20	100	
Trailing Detector (ft)	0	0	0	0	0		0	0		0	0	
Detector 1 Position(ft)	0	0	0	0	0		0	0		0	0	
Detector 1 Size(ft)	20	6	20	20	6		20	6		20	6	
Detector 1 Type	CI+Ex	Cl+Ex	CI+Ex	CI+Ex	CI+Ex		CI+Ex	Cl+Ex		CI+Ex	CI+Ex	
Detector 1 Channel	OITER	OI LX	OI LX	OI LX	OI · LX		OI LX	OI LX		OI LX	OFFER	
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)	0.0	94	0.0	0.0	94		0.0	94		0.0	94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			CI+Ex			CI+Ex			CI+Ex	
Detector 2 Channel		OLLEY			OLLEY			OLICEX			Olick	
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
` ,	nm±nŧ	NA	Perm	nm±nt	NA		nm±nt	NA		nm±nt	NA	
Turn Type	pm+pt	IVA	Fellii	pm+pt	IVA		pm+pt	IVA		pm+pt	IVA	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases	4		4	8			2			6		
Detector Phase	7	4	4	3	8		5	2		1	6	
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	11.0	14.0	14.0	11.0	14.0		11.0	14.0		11.0	14.0	
Total Split (s)	18.5	83.0	83.0	18.5	83.0		33.5	26.0		33.5	26.0	
Total Split (%)	11.5%	51.6%	51.6%	11.5%	51.6%		20.8%	16.1%		20.8%	16.1%	
Maximum Green (s)	15.0	77.0	77.0	15.0	77.0		30.0	20.0		30.0	20.0	
Yellow Time (s)	3.5	4.5	4.5	3.5	4.5		3.5	4.5		3.5	4.5	
All-Red Time (s)	0.0	1.5	1.5	0.0	1.5		0.0	1.5		0.0	1.5	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	3.5	6.0	6.0	3.5	6.0		3.5	6.0		3.5	6.0	
Lead/Lag	Lead	Lag	Lag	Lead	Lag		Lead	Lag		Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes		Yes	Yes		Yes	Yes	
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None	None	None	None		None	C-Max		None	C-Max	
Walk Time (s)		7.0	7.0		7.0			7.0			7.0	
Flash Dont Walk (s)		11.0	11.0		11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0	0		0			0			0	
Act Effct Green (s)	94.8	79.7	79.7	86.6	74.5		58.8	39.5		42.9	27.1	
Actuated g/C Ratio	0.59	0.50	0.50	0.54	0.46		0.37	0.25		0.27	0.17	
v/c Ratio	0.93	0.86	0.54	0.56	0.69		0.75	0.47		0.39	0.56	
Control Delay	81.2	42.2	12.7	37.3	35.6		52.4	37.5		40.8	62.8	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	81.2	42.2	12.7	37.3	35.6		52.4	37.5		40.8	62.8	
LOS	F	D	В	D	D		D	D		D	Е	
Approach Delay		39.5			35.7			43.8			56.8	
Approach LOS		D			D			D			Е	

Area Type: Other

Cycle Length: 161

Actuated Cycle Length: 161

Offset: 59 (37%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green

Natural Cycle: 90

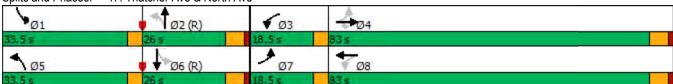
Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.93

Intersection Signal Delay: 40.4 Intersection LOS: D
Intersection Capacity Utilization 90.8% ICU Level of Service E

Analysis Period (min) 15

Splits and Phases: 47: Thatcher Ave & North Ave



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ř	↑ ↑		7	↑ ↑		Ť	f)		7	î,	
Traffic Volume (vph)	125	1523	70	60	1391	67	167	118	26	36	56	20
Future Volume (vph)	125	1523	70	60	1391	67	167	118	26	36	56	20
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	100		0	100		0	80		0	60		0
Storage Lanes	1		0	1		0	1		0	1		0
Taper Length (ft)	170			115			110			55		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			1.00		0.99	1.00		0.99	0.99	
Frt		0.993			0.993			0.973			0.960	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	3508	0	1770	3507	0	1770	1804	0	1770	1776	0
Flt Permitted	0.079			0.082			0.457			0.658		
Satd. Flow (perm)	147	3508	0	153	3507	0	840	1804	0	1212	1776	0
Right Turn on Red			Yes	, , ,		Yes			Yes			Yes
Satd. Flow (RTOR)		8			8			10		•	16	. 90
Link Speed (mph)		30			30			25			25	
Link Distance (ft)		860			438			660			264	
Travel Time (s)		19.5			10.0			18.0			7.2	
Confl. Peds. (#/hr)	10	10.0	10	10	10.0	10	10	10.0	10	10		10
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	136	1655	76	65	1512	73	182	128	28	39	61	22
Shared Lane Traffic (%)	100	1000	70	00	1012		102	120	20	00	VI.	
Lane Group Flow (vph)	136	1731	0	65	1585	0	182	156	0	39	83	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	2011	12	rugin	20.0	12	rugiit	Lon	12	i tigiit	Lon	12	i ugiit
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane		10										
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2	Ū	1	2	Ū	1	2	J
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	Cl+Ex	
Detector 1 Channel	OITEX	OITEX		OITEX	OITEX		OIILX	OIILX		OITEX	OIILX	
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)	0.0	94		0.0	94		0.0	94		0.0	94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			CI+Ex			CI+Ex			Cl+Ex	
Detector 2 Type Detector 2 Channel		CITEX			CITEX			CITEX			CITEX	
		0.0			0.0			0.0			0.0	
Detector 2 Extend (s)	nm : nt			nm · nt			nm · nt			nm · nt		
Turn Type	pm+pt	NA		pm+pt	NA		pm+pt	NA		pm+pt	NA	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Protected Phases	5	2		1	6		7	4		3	8	
Permitted Phases	2			6			4			8		
Detector Phase	5	2		1	6		7	4		3	8	
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	11.0	14.0		11.0	14.0		11.0	14.0		11.0	14.0	
Total Split (s)	11.0	54.0		11.0	54.0		11.0	14.0		11.0	14.0	
Total Split (%)	12.2%	60.0%	1	2.2%	60.0%		12.2%	15.6%		12.2%	15.6%	
Maximum Green (s)	7.5	48.0		7.5	48.0		7.5	8.0		7.5	8.0	
Yellow Time (s)	3.5	4.5		3.5	4.5		3.5	4.5		3.5	4.5	
All-Red Time (s)	0.0	1.5		0.0	1.5		0.0	1.5		0.0	1.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	3.5	6.0		3.5	6.0		3.5	6.0		3.5	6.0	
Lead/Lag	Lead	Lag		Lead	Lag		Lead	Lag		Lead	Lag	
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes	Yes		Yes	Yes	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	C-Max		None	C-Max		None	None		None	None	
Walk Time (s)		7.0			7.0			7.0			7.0	
Flash Dont Walk (s)		11.0			11.0			11.0			11.0	
Pedestrian Calls (#/hr)		0			0			0			0	
Act Effct Green (s)	61.1	52.7		59.3	50.3		17.6	10.6		15.0	7.4	
Actuated g/C Ratio	0.68	0.59		0.66	0.56		0.20	0.12		0.17	0.08	
v/c Ratio	0.60	0.84		0.30	0.81		0.72	0.71		0.16	0.52	
Control Delay	23.4	22.0		13.4	8.9		48.9	56.7		28.6	44.4	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	23.4	22.0		13.4	8.9		48.9	56.7		28.6	44.4	
LOS	С	C		В	Α		D	Е		С	D	
Approach Delay		22.1			9.1			52.5			39.3	
Approach LOS		С			A			D			D	

Area Type: Other

Cycle Length: 90

Actuated Cycle Length: 90

Offset: 0 (0%), Referenced to phase 2:EBTL and 6:WBTL, Start of Green

Natural Cycle: 90

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.84

Intersection Signal Delay: 19.8 Intersection LOS: B
Intersection Capacity Utilization 81.9% ICU Level of Service D

Analysis Period (min) 15

Splits and Phases: 48: Lathrop Ave & North Ave



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	ተተ _ጉ		7	ተተ _ጉ		7	^	7	Ť	↑ Ъ	
Traffic Volume (vph)	178	1107	210	189	1138	127	320	667	155	90	604	102
Future Volume (vph)	178	1107	210	189	1138	127	320	667	155	90	604	102
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	245		0	165		0	145		145	100		0
Storage Lanes	1		0	1		0	1		1	1		0
Taper Length (ft)	135			180			135			160		
Lane Util. Factor	1.00	0.91	0.91	1.00	0.91	0.91	1.00	0.95	1.00	1.00	0.95	0.95
Ped Bike Factor	1.00	1.00		1.00	1.00		0.99		0.97	0.99	1.00	
Frt		0.976			0.985				0.850		0.978	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	4942	0	1770	4996	0	1770	3539	1583	1770	3448	0
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1766	4942	0	1766	4996	0	1760	3539	1541	1760	3448	0
Right Turn on Red			Yes		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Yes			Yes			Yes
Satd. Flow (RTOR)		42			21				168	•	19	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		425			797			667			513	
Travel Time (s)		9.7			18.1			15.2			11.7	
Confl. Peds. (#/hr)	10	U.	10	10	10.1	10	10	10.2	10	10		10
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	193	1203	228	205	1237	138	348	725	168	98	657	111
Shared Lane Traffic (%)	100	1200	LLO	200	1201	100	010	120	100	00	001	• • •
Lane Group Flow (vph)	193	1431	0	205	1375	0	348	725	168	98	768	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12	1.1.3.1.		12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane											. •	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2		1	2	1	1	2	_
Detector Template	Left	Thru		Left	Thru		Left	Thru	Right	Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100	20	20	100	
Trailing Detector (ft)	0	0		0	0		0	0	0	0	0	
Detector 1 Position(ft)	0	0		0	0		0	0	0	0	0	
Detector 1 Size(ft)	20	6		20	6		20	6	20	20	6	
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	
Detector 1 Channel	OITER	OI LX		OI LX	OI LX		OI · EX	OI · EX	OI LX	OI LX	OI LX	
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 2 Position(ft)	0.0	94		0.0	94		0.0	94	0.0	0.0	94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			CI+Ex			CI+Ex			Cl+Ex	
Detector 2 Channel		OI'LX			OITEX			OI'LX			OI'LX	
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Prot	NA		Prot	NA		Prot	NA	Perm	Prot	NA	
rum rype	1 100	INA		1 100	INA		1 100	INA	1 61111	1 100	INA	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases									2			
Detector Phase	7	4		3	8		5	2	2	1	6	
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0		5.0	5.0	5.0	5.0	5.0	
Minimum Split (s)	11.0	14.0		11.0	14.0		11.0	14.0	14.0	11.0	14.0	
Total Split (s)	13.0	30.0		14.0	31.0		21.0	33.0	33.0	13.0	25.0	
Total Split (%)	14.4%	33.3%		15.6%	34.4%		23.3%	36.7%	36.7%	14.4%	27.8%	
Maximum Green (s)	9.5	24.0		10.5	25.0		17.5	27.0	27.0	9.5	19.0	
Yellow Time (s)	3.5	4.5		3.5	4.5		3.5	4.5	4.5	3.5	4.5	
All-Red Time (s)	0.0	1.5		0.0	1.5		0.0	1.5	1.5	0.0	1.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	3.5	6.0		3.5	6.0		3.5	6.0	6.0	3.5	6.0	
Lead/Lag	Lead	Lag		Lead	Lag		Lead	Lag	Lag	Lead	Lag	
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		Yes	Yes	Yes	Yes	Yes	
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0	3.0	3.0	3.0	
Recall Mode	None	None		None	None		None	C-Max	C-Max	None	C-Max	
Walk Time (s)		7.0			7.0			7.0	7.0		7.0	
Flash Dont Walk (s)		11.0			11.0			11.0	11.0		11.0	
Pedestrian Calls (#/hr)		0			0			0	0		0	
Act Effct Green (s)	9.5	24.0		10.5	25.0		17.5	29.8	29.8	8.7	19.0	
Actuated g/C Ratio	0.11	0.27		0.12	0.28		0.19	0.33	0.33	0.10	0.21	
v/c Ratio	1.04	1.06		1.00	0.98		1.01	0.62	0.27	0.58	1.04	
Control Delay	103.2	80.8		104.0	52.6		89.7	29.1	5.2	52.5	77.8	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Total Delay	103.2	80.8		104.0	52.6		89.7	29.1	5.2	52.5	77.8	
LOS	F	F		F	D		F	С	Α	D	Е	
Approach Delay		83.5			59.3			42.9			74.9	
Approach LOS		F			E			D			Е	

Area Type: Other

Cycle Length: 90

Actuated Cycle Length: 90

Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Green

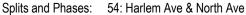
Natural Cycle: 90

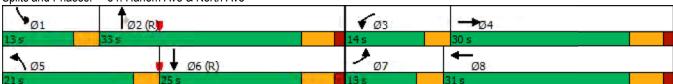
Control Type: Actuated-Coordinated

Maximum v/c Ratio: 1.06

Intersection Signal Delay: 65.4 Intersection LOS: E
Intersection Capacity Utilization 91.2% ICU Level of Service F

Analysis Period (min) 15









Alternative Volumes & Level of Service – AM



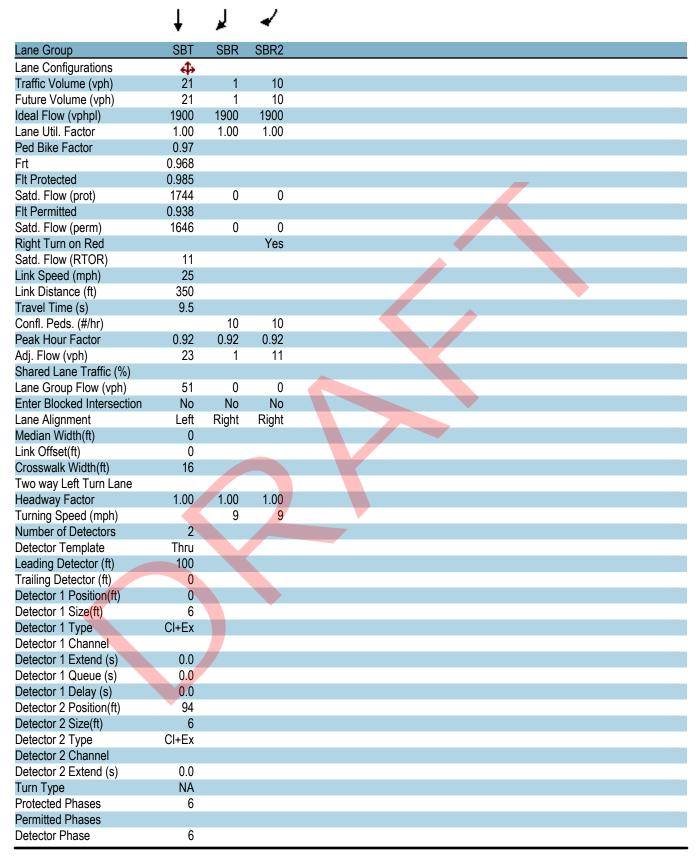
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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	,
Traffic Volume (vph)	24	248	33	67	244	82	21	236	50	22	157	14
Future Volume (vph)	24	248	33	67	244	82	21	236	50	22	157	14
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		40	0		200	0		0	0		0
Storage Lanes	0		0	0		0	0		0	0		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			0.99			0.99			1.00	
Frt		0.985			0.972			0.978			0.990	
Flt Protected		0.996			0.992			0.997			0.994	
Satd. Flow (prot)	0	1821	0	0	1784	0	0	1805	0	0	1828	0
Flt Permitted		0.938			0.878			0.961			0.931	
Satd. Flow (perm)	0	1714	0	0	1577	0	0	1738	0	0	1710	0
Right Turn on Red	-		Yes	•		Yes			Yes			Yes
Satd. Flow (RTOR)		15			32			22		•	9	
Link Speed (mph)		25			25			25			25	
Link Distance (ft)		890			879			670			677	
Travel Time (s)		24.3			24.0			18.3			18.5	
Confl. Peds. (#/hr)	10	21.0	10	10	21.0	10	15	10.0	14	14	10.0	15
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Adj. Flow (vph)	30	306	41	83	301	101	26	291	62	27	194	17
Shared Lane Traffic (%)	00	000		00	001	101	20	201	VL.		101	• •
Lane Group Flow (vph)	0	377	0	0	485	0	0	379	0	0	238	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0	1.1.3.1.		0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2	-	1	2	-	1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex	
Detector 1 Channel		J/.		J	J		J	J/.		J	J,	
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)	0.0	94		0.0	94		0.0	94		0.0	94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			CI+Ex			CI+Ex			CI+Ex	
Detector 2 Channel		OITEX			OITEX			OI · LX			OI LX	
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
rum rype	1 61111	INA		1 61111	INA		i eiiii	INA		1 61111	INA	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		
Detector Phase	4	4		8	8		2	2		6	6	
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	24.0	24.0		24.0	24.0		24.0	24.0		24.0	24.0	
Total Split (s)	26.0	26.0		26.0	26.0		24.0	24.0		24.0	24.0	
Total Split (%)	52.0%	52.0%		52.0%	52.0%		48.0%	48.0%		48.0%	48.0%	
Maximum Green (s)	20.0	20.0		20.0	20.0		18.0	18.0		18.0	18.0	
Yellow Time (s)	4.5	4.5		4.5	4.5		4.5	4.5		4.5	4.5	
All-Red Time (s)	1.5	1.5		1.5	1.5		1.5	1.5		1.5	1.5	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		6.0			6.0			6.0			6.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		Min	Min		Min	Min	
Walk Time (s)	7.0	7.0		7.0	7.0		7.0	7.0		7.0	7.0	
Flash Dont Walk (s)	11.0	11.0		11.0	11.0		11.0	11.0		11.0	11.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		16.4			16.4			13.6			13.6	
Actuated g/C Ratio		0.39			0.39			0.32			0.32	
v/c Ratio		0.56			0.77			0.66			0.43	
Control Delay		14.2			21.9			18.6			14.2	
Queue Delay		0.0			0.0			0.0			0.0	
Total Delay		14.2			21.9			18.6			14.2	
LOS		В			C			В			В	
Approach Delay		14.2			21.9			18.6			14.2	
Approach LOS		В			C			В			В	
Intersection Summary												
•	Other											
Cycle Length: 50												
Actuated Cycle Length: 42.5	5											
Natural Cycle: 55												
Control Type: Actuated-Und	coordinated											
Maximum v/c Ratio: 0.77												
Intersection Signal Delay: 1	7.8			Ir	ntersection	LOS: B						
Intersection Capacity Utiliza					CU Level		e C					
Analysis Period (min) 15												
Splits and Phases: 34: La	athrop Ave	& Division	St									
↑ø2					-04							
24 s					26 s							
↓ Ø6					★ Ø8	5						
7 20					200							

Intersection							
Int Delay, s/veh	3.3						
		WDD	NDT	NDD	CDI	CDT	
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	¥	71	þ	۲۵	10	4	
Traffic Vol, veh/h	65	71	351	52	10	500	
Future Vol, veh/h	65	71	351	52	10	500	
Conflicting Peds, #/hr		10	0	10	10	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	-	None	-	None	-	None	
Storage Length	0	-	-		-	-	
Veh in Median Storag Grade, %	e, # 0 0	-	0	-	-	0	
Peak Hour Factor	85	85	85	85	85	85	
Heavy Vehicles, %	2	2	2	2	2	2	
Mymt Flow	76	84	413	61	12	588	
IVIVITIL FIUW	70	04	413	UI	12	500	
Major/Minor	Minor1		Major1		Major2		
Conflicting Flow All	1076	464	0	0	484	0	
Stage 1	454	-	-	-	-	-	
Stage 2	622	-	-	-	-		
Critical Hdwy	6.42	6.22	-	-	4.12		
Critical Hdwy Stg 1	5.42	-	-	-	-	-	
Critical Hdwy Stg 2	5.42	-	-	-	-	-	
Follow-up Hdwy	3.518		-	-	2.218	-	
Pot Cap-1 Maneuver	243	598	-	·	1079	-	
Stage 1	640	-	-		-	- \	
Stage 2	535	-		-	-	-	
Platoon blocked, %	00:	FOT	-	-	1010	-	
Mov Cap-1 Maneuver		587	-	-	1069	-	
Mov Cap-2 Maneuver		-	-	-	-		
Stage 1	634	-	-	-	-	-	
Stage 2	521		-	-	-	-	
Approach	WB		NB		SB		
HCM Control Delay, s	24.6		0		0.2		
HCM LOS	С						
Minor Lane/Major Mvi	mt	NBT	NRRI	WBLn1	SBL	SBT	
Capacity (veh/h)		-	-		1069	-	
HCM Lane V/C Ratio		-		0.469		-	
HCM Control Delay (s	:)	_	-		8.4	0	
HCM Lane LOS	7)	-	-	_	Α	A	
HCM 95th %tile Q(vel	n)	_	-	0.4	0	-	
HOW FORT FORTIC COLVER	'/			2.4	0		

Intersection							
Int Delay, s/veh	10.7						
		WDD	NDT	NDD	CDI	ODT	
Movement Configurations	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations Traffic Vol, veh/h		115	1 → 316	106	175	41 450	
Future Vol, veh/h	60 60	115	316	106	175	450	
Conflicting Peds, #/hr	10	10	0	100	1/3	430	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	Stop -	None	riee -	None	riee -	None	
Storage Length	0	INOHE -	_	INOHE -	_	-	
Veh in Median Storage		-	0	_	_	0	
Grade, %	0	_	0	_	_	0	
Peak Hour Factor	86	86	86	86	86	86	
Heavy Vehicles, %	2	2	2	2	2	2	
Mymt Flow	70	134	367	123	203	523	
INTERIOR	10	107	001	120	200	ULU	
	Minor1		/lajor1		Major2		
Conflicting Flow All	1378	449	0	0	500	0	
Stage 1	439	-	-	-	-	-	
Stage 2	939	-	-	-	-	-	
Critical Hdwy	6.42	6.22	-	-	4.12		
Critical Hdwy Stg 1	5.42	-	-	-	-	-	V
Critical Hdwy Stg 2	5.42	-	-	-	-	-	
Follow-up Hdwy	3.518		-	-	2.218	-	
Pot Cap-1 Maneuver	160	610	-		1064	-	
Stage 1	650	-	-	•	-	-	
Stage 2	380	-		-	-	-	
Platoon blocked, %	444	500	-	-	1054	-	
Mov Cap-1 Maneuver	114	598	-	-	1054	-	
Mov Cap-2 Maneuver	114	-	-			-	
Stage 1	644	-	-	-	-	-	
Stage 2	274	-	-	-	-	-	
Approach	WB		NB		SB		
HCM Control Delay, s	65.7		0		2.6		
HCM LOS	F						
Minor Lane/Major Mvr	nt	NBT	NBRV	VBLn1	SBL	SBT	
Capacity (veh/h)		-	-	0.1.1	1054	-	
HCM Lane V/C Ratio		-		0.834		-	
HCM Control Delay (s)	_		^	9.2	0	
HCM Lane LOS		<u>-</u>	_	03.7 F	9.2 A	A	
HCM 95th %tile Q(veh	1)	_		6.6	0.7		
HOW JOHN JOHN GUIC W(VEI	'/		_	0.0	0.1		

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Lane Group	EBL	EBT	EBR	EBR2	WBL2	WBL	WBT	WBR	NBL	NBT	NBR	SBL
Lane Configurations		4					4			4		
Traffic Volume (vph)	7	316	5	1	12	3	216	17	3	28	13	15
Future Volume (vph)	7	316	5	1	12	3	216	17	3	28	13	15
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00					0.99			0.98		
Frt		0.998					0.991			0.960		
Flt Protected		0.999					0.997			0.997		
Satd. Flow (prot)	0	1855	0	0	0	0	1834	0	0	1757	0	0
Flt Permitted		0.990					0.969			0.991		
Satd. Flow (perm)	0	1837	0	0	0	0	1780	0	0	1743	0	0
Right Turn on Red				Yes				Yes			Yes	
Satd. Flow (RTOR)							6			14		
Link Speed (mph)		25					25			25		
Link Distance (ft)		458					415			336		
Travel Time (s)		12.5					11.3			9.2		
Confl. Peds. (#/hr)	10	1_10	10	10	10	10		10	10	• • •	10	10
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	8	343	5	1	13	3	235	18	3	30	14	16
Shared Lane Traffic (%)			-									
Lane Group Flow (vph)	0	357	0	0	0	0	269	0	0	47	0	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Right	Left	Left	Left	Right	Left	Left	Right	Left
Median Width(ft)		0					0			0		
Link Offset(ft)		0					0			0		
Crosswalk Width(ft)		16					16			16		
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	9	15	15		9	15		9	15
Number of Detectors	1	2			1	1	2	-	1	2		1
Detector Template	Left	Thru			Left	Left	Thru		Left	Thru		Left
Leading Detector (ft)	20	100			20	20	100		20	100		20
Trailing Detector (ft)	0	0			0	0	0		0	0		0
Detector 1 Position(ft)	0	0			0	0	0		0	0		0
Detector 1 Size(ft)	20	6			20	20	6		20	6		20
Detector 1 Type	CI+Ex	CI+Ex			CI+Ex	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex
Detector 1 Channel	· ·				· ·							·
Detector 1 Extend (s)	0.0	0.0			0.0	0.0	0.0		0.0	0.0		0.0
Detector 1 Queue (s)	0.0	0.0			0.0	0.0	0.0		0.0	0.0		0.0
Detector 1 Delay (s)	0.0	0.0			0.0	0.0	0.0		0.0	0.0		0.0
Detector 2 Position(ft)	0.0	94			0.0	0.0	94		0.0	94		0.0
Detector 2 Size(ft)		6					6			6		
Detector 2 Type		CI+Ex					CI+Ex			CI+Ex		
Detector 2 Channel		O. Ex					OI EX			OI EX		
Detector 2 Extend (s)		0.0					0.0			0.0		
Turn Type	Perm	NA			Perm	Perm	NA		Perm	NA		Perm
Protected Phases	. 01111	4			. 31111	. 51111	8		. 51111	2		. 31111
Permitted Phases	4	7			8	8			2			6
Detector Phase	4	4			8	8	8		2	2		6
20100101 1 11000	7	7			U	J			_	_		



Lanes, Volumes, Timings 7: Park Dr & Franklin Ave & Washington Blvd

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Lane Group	EBL	EBT	EBR	EBR2	WBL2	WBL	WBT	WBR	NBL	NBT	NBR	SBL
Switch Phase												
Minimum Initial (s)	5.0	5.0			5.0	5.0	5.0		5.0	5.0		5.0
Minimum Split (s)	14.0	14.0			14.0	14.0	14.0		14.0	14.0		14.0
Total Split (s)	68.0	68.0			68.0	68.0	68.0		38.0	38.0		38.0
Total Split (%)	64.2%	64.2%			64.2%	64.2%	64.2%		35.8%	35.8%		35.8%
Maximum Green (s)	62.0	62.0			62.0	62.0	62.0		32.0	32.0		32.0
Yellow Time (s)	4.5	4.5			4.5	4.5	4.5		4.5	4.5		4.5
All-Red Time (s)	1.5	1.5			1.5	1.5	1.5		1.5	1.5		1.5
Lost Time Adjust (s)		0.0					0.0			0.0		
Total Lost Time (s)		6.0					6.0			6.0		
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0			3.0	3.0	3.0		3.0	3.0		3.0
Recall Mode	None	None			None	None	None		Max	Max		None
Walk Time (s)	7.0	7.0			7.0	7.0	7.0		7.0	7.0		7.0
Flash Dont Walk (s)	11.0	11.0			11.0	11.0	11.0		11.0	11.0		11.0
Pedestrian Calls (#/hr)	0	0			0	0	0		0	0		0
Act Effct Green (s)		16.9					16.9			32.2		
Actuated g/C Ratio		0.28					0.28			0.53		
v/c Ratio		0.70					0.54			0.05		
Control Delay		27.8					22.5			6.9		
Queue Delay		0.0					0.0			0.0		
Total Delay		27.8					22.5			6.9		
LOS		С					С			Α		
Approach Delay		27.8					22.5			6.9		
Approach LOS		С					С			Α		
Intersection Summary												
Area Type:	Other			1								
Cycle Length: 106												
Actuated Cycle Length: 61	1.1											
Natural Cycle: 40												
Control Type: Actuated-Ur	ncoordinated											
Maximum v/c Ratio: 0.70												
Intersection Signal Delay:					ntersectio							
Intersection Capacity Utiliz	zation 54.7%			10	CU Level	of Service	A					
Analysis Period (min) 15												
Splits and Phases: 7: Page 1	ark Dr & Fra	nklin Ave	& Washir	naton Blv	d							

Splits and Phases: 7: Park Dr & Franklin Ave & Washington Blvd



Lanes, Volumes, Timings 7: Park Dr & Franklin Ave & Washington Blvd



Lane Group	SBT	SBR	SBR2	
Switch Phase				
Minimum Initial (s)	5.0			
Minimum Split (s)	14.0			
Total Split (s)	38.0			
Total Split (%)	35.8%			
Maximum Green (s)	32.0			
Yellow Time (s)	4.5			
All-Red Time (s)	1.5			
Lost Time Adjust (s)	0.0			
Total Lost Time (s)	6.0			
Lead/Lag				
Lead-Lag Optimize?				
Vehicle Extension (s)	3.0			
Recall Mode	None			
Walk Time (s)	7.0			
Flash Dont Walk (s)	11.0			
Pedestrian Calls (#/hr)	0			
Act Effct Green (s)	32.2			
Actuated g/C Ratio	0.53			
v/c Ratio	0.06			
Control Delay	7.4			
Queue Delay	0.0			
Total Delay	7.4			
LOS	Α			
Approach Delay	7.4			
Approach LOS	Α			
Intersection Summary				

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			ર્ન	7		ર્ન	7		ર્ન	7
Traffic Volume (vph)	53	256	12	5	169	90	7	190	15	20	150	78
Future Volume (vph)	53	256	12	5	169	90	7	190	15	20	150	78
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		75	0		75	0		75	0		75
Storage Lanes	0		0	0		1	0		1	0		1
Taper Length (ft)	25			25			25			25		-
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			1.00	0.97		1.00	0.96		1.00	0.97
Frt		0.995				0.850			0.850			0.850
Flt Protected		0.992			0.999	0.000		0.998	0.000		0.994	0.000
Satd. Flow (prot)	0	1836	0	0	1861	1583	0	1859	1583	0	1852	1583
Flt Permitted		0.906			0.986	1000		0.988	,000		0.949	1000
Satd. Flow (perm)	0	1674	0	0	1836	1528	0	1840	1521	0	1765	1528
Right Turn on Red	0	107-	Yes	U	1000	Yes	U	10-10	Yes		1700	Yes
Satd. Flow (RTOR)		5	100			99			61			86
Link Speed (mph)		25			25	33		25	01		25	00
Link Opeca (mph) Link Distance (ft)		450			2667			1328			1233	
Travel Time (s)		12.3			72.7			36.2			33.6	
Confl. Peds. (#/hr)	10	12.0	10	10	12.1	10	10	JU.2	13	13	00.0	10
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Adj. Flow (vph)	58	281	13	5	186	99	8	209	16	22	165	86
Shared Lane Traffic (%)	50	201	10	3	100	33	0	200	10	22	100	00
Lane Group Flow (vph)	0	352	0	0	191	99	0	217	16	0	187	86
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	Leit	0	Right	Leit	0	Right	Leit	0	Rigit	Leit	0	rtigiit
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane		10			- 10			10			10	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
•	1.00	1.00	9	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)	10	2	9	15	2	1	15	2	1	15	2	9
Number of Detectors												
Detector Template	Left	Thru		Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Leading Detector (ft)	20	100		20	100	20	20	100	20	20	100	20
Trailing Detector (ft)	0	0		0	0	0	0	0	0	0	0	0
Detector 1 Position(ft)	0	0		0	0	0	0	0	0	0	0	0
Detector 1 Size(ft)	20	6		20	6	20	20	6	20	20	6	20
Detector 1 Type	CI+Ex	CI+Ex		Cl+Ex	Cl+Ex	Cl+Ex	CI+Ex	CI+Ex	CI+Ex	Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Extend (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		CI+Ex			CI+Ex			CI+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA		Perm	NA	Perm	Perm	NA	Perm	Perm	NA	Perm

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Protected Phases		4			8			2			6	
Permitted Phases	4			8		8	2		2	6		6
Detector Phase	4	4		8	8	8	2	2	2	6	6	6
Switch Phase												
Minimum Initial (s)	1.0	1.0		5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	14.0	14.0		14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Total Split (s)	30.0	30.0		30.0	30.0	30.0	24.0	24.0	24.0	24.0	24.0	24.0
Total Split (%)	55.6%	55.6%		55.6%	55.6%	55.6%	44.4%	44.4%	44.4%	44.4%	44.4%	44.4%
Maximum Green (s)	24.0	24.0		24.0	24.0	24.0	18.0	18.0	18.0	18.0	18.0	18.0
Yellow Time (s)	4.5	4.5		4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
All-Red Time (s)	1.5	1.5		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Lost Time Adjust (s)		0.0			0.0	0.0		0.0	0.0		0.0	0.0
Total Lost Time (s)		6.0			6.0	6.0		6.0	6.0		6.0	6.0
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None		None	None	None	Max	Max	Max	Max	Max	Max
Walk Time (s)	7.0	7.0		7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Flash Dont Walk (s)	11.0	11.0		11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Pedestrian Calls (#/hr)	0	0		0	0	0	0	0	0	0	0	0
Act Effct Green (s)		14.1			14.1	14.1		18.2	18.2		18.2	18.2
Actuated g/C Ratio		0.32			0.32	0.32		0.41	0.41		0.41	0.41
v/c Ratio		0.66			0.33	0.18		0.29	0.02		0.26	0.13
Control Delay		19.0			12.6	3.6		11.6	0.1		11.4	3.9
Queue Delay		0.0			0.0	0.0		0.0	0.0		0.0	0.0
Total Delay		19.0			12.6	3.6		11.6	0.1		11.4	3.9
LOS		В			В	Α		В	Α		В	Α
Approach Delay		19.0			9.5			10.8			9.0	
Approach LOS		В			Α			В			Α	
Intersection Summary												
Area Type:	Other											
Cycle Length: 54												
Actuated Cycle Length: 44	.4											
Natural Cycle: 40												
Control Type: Semi Act-Un	coord											
Maximum v/c Ratio: 0.66												
Intersection Signal Delay:	12.6			lr	ntersection	n LOS: B						
Intersection Capacity Utiliz	ation 67.7%			IC	CU Level	of Service	e C					
Analysis Period (min) 15												
Splits and Phases: 8: La	throp Ave 8	Washing	ton Blvd									
↑ Ø2				1100	₽ Ø4							
24 s				30 s								
\$ ø ₆				4	Ø8							

Intersection	
Intersection Delay, s/veh	15.6
Intersection LOS	С

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4TÞ			4			4			4	
Traffic Vol, veh/h	91	268	21	10	196	23	20	219	11	12	184	85
Future Vol, veh/h	91	268	21	10	196	23	20	219	11	12	184	85
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	97	285	22	11	209	24	21	233	12	13	196	90
Number of Lanes	0	2	0	0	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			2			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			2			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			1			2		
HCM Control Delay	14.8			15.4			16			16.6		
HCM LOS	В			C			C			C		

Lane	NBLn1	EBLn1	EBLn2	WBLn1	SBLn1	
Vol Left, %	8%	40%	0%	4%	4%	
Vol Thru, %	88%	60%	86%	86%	65%	
Vol Right, %	4%	0%	14%	10%	30%	
Sign Control	Stop	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	250	225	155	229	281	
LT Vol	20	91	0	10	12	
Through Vol	219	134	134	196	184	
RT Vol	11	0	21	23	85	
Lane Flow Rate	266	239	165	244	299	
Geometry Grp	2	7	7	5	2	
Degree of Util (X)	0.491	0.474	0.313	0.456	0.533	
Departure Headway (Hd)	6.646	7.127	6.823	6.734	6.415	
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	
Сар	540	505	526	534	559	
Service Time	4.711	4.887	4.583	4.801	4.477	
HCM Lane V/C Ratio	0.493	0.473	0.314	0.457	0.535	
HCM Control Delay	16	16.2	12.7	15.4	16.6	
HCM Lane LOS	С	С	В	С	С	
HCM 95th-tile Q	2.7	2.5	1.3	2.4	3.1	





Alternative Volumes & Level of Service – PM



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	,
Traffic Volume (vph)	22	342	24	44	215	54	25	229	46	28	143	22
Future Volume (vph)	22	342	24	44	215	54	25	229	46	28	143	22
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		40	0		200	0		0	0		0
Storage Lanes	0		0	0		0	0		0	0		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			0.99			0.99			1.00	
Frt		0.992			0.977			0.979			0.985	
Flt Protected		0.997			0.993			0.996			0.993	
Satd. Flow (prot)	0	1838	0	0	1797	0	0	1807	0	0	1815	0
Flt Permitted		0.962			0.899			0.953			0.909	
Satd. Flow (perm)	0	1773	0	0	1625	0	0	1728	0	0	1660	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		8			24			21		•	15	
Link Speed (mph)		25			25			25			25	
Link Distance (ft)		890			879			670			677	
Travel Time (s)		24.3			24.0			18.3			18.5	
Confl. Peds. (#/hr)	10	21.0	10	10	21.0	10	10	10.0	10	10	10.0	10
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	24	380	27	49	239	60	28	254	51	31	159	24
Shared Lane Traffic (%)		000	- !		200	00	20	201	O1	O1	100	4 1
Lane Group Flow (vph)	0	431	0	0	348	0	0	333	0	0	214	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0	1.1.3.1.1		0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2	-	1	2	-	1	2	-
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex	
Detector 1 Channel		J/.		J/	J		J	J		J	J	
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)	0.0	94		0.0	94		0.0	94		0.0	94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			CI+Ex			CI+Ex			CI+Ex	
Detector 2 Channel		OI LX			OI LX			OI LX			OI LX	
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
i di ii i ypo	1 01111	11/7		1 01111	11/7		1 01111	11/7		1 01111	14/7	

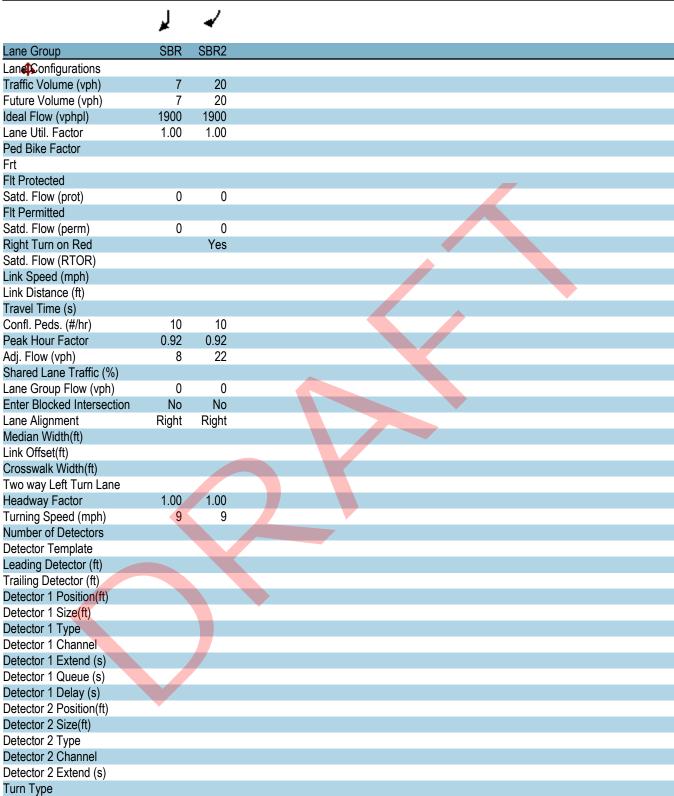
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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		
Detector Phase	4	4		8	8		2	2		6	6	
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	24.0	24.0		24.0	24.0		24.0	24.0		24.0	24.0	
Total Split (s)	25.0	25.0		25.0	25.0		25.0	25.0		25.0	25.0	
Total Split (%)	50.0%	50.0%		50.0%	50.0%		50.0%	50.0%		50.0%	50.0%	
Maximum Green (s)	19.0	19.0		19.0	19.0		19.0	19.0		19.0	19.0	
Yellow Time (s)	4.5	4.5		4.5	4.5		4.5	4.5		4.5	4.5	
All-Red Time (s)	1.5	1.5		1.5	1.5		1.5	1.5		1.5	1.5	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		6.0			6.0			6.0			6.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		Min	Min		Min	Min	
Walk Time (s)	7.0	7.0		7.0	7.0		7.0	7.0		7.0	7.0	
Flash Dont Walk (s)	11.0	11.0		11.0	11.0		11.0	11.0		11.0	11.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		13.9			13.9			12.4			12.4	
Actuated g/C Ratio		0.36			0.36			0.32			0.32	
v/c Ratio		0.67			0.58			0.59			0.40	
Control Delay		17.0			14.5			15.8			12.6	
Queue Delay		0.0			0.0			0.0			0.0	
Total Delay		17.0			14.5			15.8			12.6	
LOS		В			В			В			В	
Approach Delay		17.0			14.5			15.8			12.6	
Approach LOS		В			В			В			В	
•					_							
Intersection Summary												
Area Type:	Other											
Cycle Length: 50												
Actuated Cycle Length: 38.	9											
Natural Cycle: 50												
Control Type: Actuated-Und	coordinated											
Maximum v/c Ratio: 0.67												
Intersection Signal Delay: 1					ntersection							
Intersection Capacity Utiliza	ation 59.4%			I	CU Level of	of Service	9 B					
Analysis Period (min) 15												
Splits and Phases: 34: La	athrop Ave	& Division	St									
↑ ø2						24						
25 s					25 s							
↓ Ø6					¥3	28						

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Intersection	^ -						
Int Delay, s/veh	3.5						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	¥		4			4	
Traffic Vol, veh/h	44	130	452	56	20	564	
Future Vol, veh/h	44	130	452	56	20	564	
Conflicting Peds, #/hr	10	10	0	10	10	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	-	None	-	None	-	None	
Storage Length	0	_	-	-	-	-	
Veh in Median Storage	, # 0	-	0	-	-	0	
Grade, %	0	-	0	-	-	0	
Peak Hour Factor	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	48	141	491	61	22	613	
							Y
Major/Minor N	Minor1	N	/lajor1	ı	Major2		
Conflicting Flow All	1199	542	0	0	562	0	
Stage 1	532	-	-	_	- 502	-	
Stage 2	667	<u>-</u>	_	_	_	_	
Critical Hdwy	6.42	6.22	_	_	4.12		
Critical Hdwy Stg 1	5.42	-	_	-	-	-	
Critical Hdwy Stg 2	5.42	_	_	_	_		
Follow-up Hdwy	3.518	3.318	_	_	2.218		
Pot Cap-1 Maneuver	205	540	_	-	1009	-	
Stage 1	589	-	-		-	-	
Stage 2	510	-	-	-	-	-	
Platoon blocked, %			-	-		-	
Mov Cap-1 Maneuver	194	530	-	-	999	-	
Mov Cap-2 Maneuver	194	-	-		-	-	7
Stage 1	583	-	-	V -	-	-	
Stage 2	489	-	-	-	-	-	
Approach	WB		NB		SB		
	24.6		0		0.3		
HCM Control Delay, s HCM LOS	24.6 C		U		0.3		
I IOIVI LOS	U						
Minor Lane/Major Mvm	ıt	NBT	NBRV	VBLn1	SBL	SBT	
Capacity (veh/h)		-	-	000	999	-	
HCM Lane V/C Ratio		-	-	0.513		-	
HCM Control Delay (s)		-	-	24.6	8.7	0	
HCM Lane LOS		-	-	С	Α	Α	
HCM 95th %tile Q(veh)				2.8	0.1		

Intersection							
Int Delay, s/veh	41.4						
		WDD	NDT	NDD	ODI	ODT	
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	¥	400	- ↑		0.40	4	
Traffic Vol, veh/h	68	183	488	94	240	516	
Future Vol, veh/h	68	183	488	94	240	516	
Conflicting Peds, #/hr	10	10	0	10	10	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	-	None	-	None	-	None	
Storage Length	0	-	-	-	-	-	
Veh in Median Storage		-	0	-	-	0	
Grade, %	0	-	0	-	-	0	
Peak Hour Factor	96	96	96	96	96	96	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	71	191	508	98	250	538	
Major/Miner	Minard		Anie 1		Ania-O		
	Minor1		Major1		Major2		
Conflicting Flow All	1615	577	0	0	616	0	
Stage 1	567	-	-	-	-	-	
Stage 2	1048	-	-	-	-	-	
Critical Hdwy	6.42	6.22	-	-	4.12	-	
Critical Hdwy Stg 1	5.42	-	-	-	-	-	
Critical Hdwy Stg 2	5.42	-	-	-	-	-	
Follow-up Hdwy	3.518	3.318	-	-	2.218	-	
Pot Cap-1 Maneuver	114	516	-	-	964	-	
Stage 1	568	-	-	-	-	-	
Stage 2	338	-	-	-	-	-	
Platoon blocked, %			-	-		-	
Mov Cap-1 Maneuver	~ 70	506	-	-	955	-	
Mov Cap-2 Maneuver		-	-	-	-	-	7
Stage 1	562	-	-	-	_	-	
Stage 2	210	_	_	_	_	_	
<u>-</u>							
Approach	WB		NB		SB		
HCM Control Delay, s	252.5		0		3.2		
HCM LOS	F						
Minor Lang/Major Mun	nt	NDT	NIPDV	VBLn1	SBL	SBT	
Minor Lane/Major Mvr	III	NBT	INDKV			ODI	
Capacity (veh/h)		-	-	188	955	-	
HCM Lane V/C Ratio	,	-			0.262	-	
HCM Control Delay (s)	-	-	252.5	10.1	0	
HCM Lane LOS		-	-	F	В	Α	
HCM 95th %tile Q(veh	1)	-	-	15.5	1.1	-	
Notes							
~: Volume exceeds ca	nacity	¢. Da	lay ovo	eeds 30)Oc	T. Com	putation Not Defined *: All major volume in platoon
. Volume exceeds ca	ιμαυιιγ	φ. De	ay exc	ceus st	105	+. Comp	putation Not Defined . All major volume in platoon

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Lane Group	EBL	EBT	EBR	WBL2	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations		4				4			4			4
Traffic Volume (vph)	10	330	5	5	15	224	13	5	29	33	10	35
Future Volume (vph)	10	330	5	5	15	224	13	5	29	33	10	35
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00				1.00			0.97			0.97
Frt		0.998				0.993			0.933			0.949
Flt Protected		0.999				0.996			0.997			0.993
Satd. Flow (prot)	0	1856	0	0	0	1838	0	0	1691	0	0	1704
Flt Permitted		0.990				0.963			0.977			0.954
Satd. Flow (perm)	0	1838	0	0	0	1773	0	0	1654	0	0	1631
Right Turn on Red							Yes			Yes		
Satd. Flow (RTOR)						4			36			19
Link Speed (mph)		25				25			25			25
Link Distance (ft)		458				415			336			350
Travel Time (s)		12.5				11.3			9.2	•		9.5
Confl. Peds. (#/hr)	10		10	10	10		10	10	• • • • • • • • • • • • • • • • • • • •	10	10	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	11	359	5	5	16	243	14	5	32	36	11	38
Shared Lane Traffic (%)						2.10			<u> </u>			
Lane Group Flow (vph)	0	375	0	0	0	278	0	0	73	0	0	79
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Left	Right	Left	Left	Right	Left	Left
Median Width(ft)	2010	0	, tigiit	2011	ZOIL	0	Light	2010	0	, tigit	Lon	0
Link Offset(ft)		0				0			0			0
Crosswalk Width(ft)		16				16			16			16
Two way Left Turn Lane									.0			10
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	1.00	9	15	15	1.00	9	15	1.00	9	15	1.00
Number of Detectors	1	2		1	1	2		1	2		1	2
Detector Template	Left	Thru		Left	Left	Thru		Left	Thru		Left	Thru
Leading Detector (ft)	20	100		20	20	100		20	100		20	100
Trailing Detector (ft)	0	0		0	0	0		0	0		0	0
Detector 1 Position(ft)	0	0		0	0	0		0	0		0	0
Detector 1 Size(ft)	20	6		20	20	6		20	6		20	6
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex
Detector 1 Channel	OI · LX	OI! LX		OI LX	OI LX	OI LX		OI LX	OI · LX		OI LX	OI LX
Detector 1 Extend (s)	0.0	0.0		0.0	0.0	0.0		0.0	0.0		0.0	0.0
Detector 1 Queue (s)	0.0	0.0		0.0	0.0	0.0		0.0	0.0		0.0	0.0
Detector 1 Delay (s)	0.0	0.0		0.0	0.0	0.0		0.0	0.0		0.0	0.0
Detector 2 Position(ft)	0.0	94		0.0	0.0	94		0.0	94		0.0	94
Detector 2 Size(ft)		6				6			6			6
Detector 2 Type		CI+Ex				Cl+Ex			CI+Ex			CI+Ex
Detector 2 Channel		OITEX				OITEX			OITEX			OITEX
Detector 2 Extend (s)		0.0				0.0			0.0			0.0
Turn Type	Perm	NA		Perm	Perm	NA		Perm	NA		Perm	NA
Protected Phases	Fellii	4		Fellil	Fellil	1NA 8		FEIIII	2		Fellii	NA 6
Protected Phases Permitted Phases	1	4		8	8	0		2			6	Ö
	4	1				0			0		6	G
Detector Phase	4	4		8	8	8		2	2		6	6

7: Park Dr & Franklin Ave & Washington Blvd



Protected Phases Permitted Phases Detector Phase

7: Park Dr & Franklin Ave & Washington Blvd

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Lane Group	EBL	EBT	EBR	WBL2	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0	5.0		5.0	5.0		5.0	5.0
Minimum Split (s)	14.0	14.0		14.0	14.0	14.0		14.0	14.0		14.0	14.0
Total Split (s)	68.0	68.0		68.0	68.0	68.0		38.0	38.0		38.0	38.0
Total Split (%)	64.2%	64.2%		64.2%	64.2%	64.2%		35.8%	35.8%		35.8%	35.8%
Maximum Green (s)	62.0	62.0		62.0	62.0	62.0		32.0	32.0		32.0	32.0
Yellow Time (s)	4.5	4.5		4.5	4.5	4.5		4.5	4.5		4.5	4.5
All-Red Time (s)	1.5	1.5		1.5	1.5	1.5		1.5	1.5		1.5	1.5
Lost Time Adjust (s)		0.0				0.0			0.0			0.0
Total Lost Time (s)		6.0				6.0			6.0			6.0
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0		3.0	3.0		3.0	3.0
Recall Mode	Max	Max		Max	Max	Max		None	None		None	None
Walk Time (s)	7.0	7.0		7.0	7.0	7.0		7.0	7.0		7.0	7.0
Flash Dont Walk (s)	11.0	11.0		11.0	11.0	11.0		11.0	11.0		11.0	11.0
Pedestrian Calls (#/hr)	0	0		0	0	0		0	0		0	0
Act Effct Green (s)		68.2				68.2			8.6			8.6
Actuated g/C Ratio		0.80				0.80			0.10			0.10
v/c Ratio		0.25				0.20			0.37			0.44
Control Delay		3.7				3.4			25.9			35.6
Queue Delay		0.0				0.0			0.0			0.0
Total Delay		3.7				3.4			25.9			35.6
LOS		Α				Α			С			D
Approach Delay		3.7				3.4			25.9			35.6
Approach LOS		A		\		Α			С			D
Intersection Summary												
Δrea Tyne:	Other	7										

Area Type: Other

Cycle Length: 106

Actuated Cycle Length: 85.2

Natural Cycle: 40

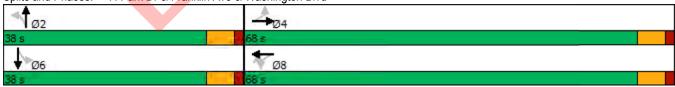
Control Type: Semi Act-Uncoord

Maximum v/c Ratio: 0.44

Intersection Signal Delay: 8.7 Intersection LOS: A Intersection Capacity Utilization 50.6% ICU Level of Service A

Analysis Period (min) 15

Splits and Phases: 7: Park Dr & Franklin Ave & Washington Blvd







Lane Group	SBR	SBR2
Switch Phase		
Minimum Initial (s)		
Minimum Split (s)		
Total Split (s)		
Total Split (%)		
Maximum Green (s)		
Yellow Time (s)		
All-Red Time (s)		
Lost Time Adjust (s)		
Total Lost Time (s)		
Lead/Lag		
Lead-Lag Optimize?		
Vehicle Extension (s)		
Recall Mode		
Walk Time (s)		
Flash Dont Walk (s)		
Pedestrian Calls (#/hr)		
Act Effct Green (s)		
Actuated g/C Ratio		
v/c Ratio		
Control Delay		
Queue Delay		
Total Delay		
LOS		
Approach Delay		
Approach LOS		
Intersection Summary		

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			ર્ન	7		ની	7		ર્ન	7
Traffic Volume (vph)	68	276	5	4	189	81	5	184	16	136	84	69
Future Volume (vph)	68	276	5	4	189	81	5	184	16	136	84	69
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		75	0		75	0		75	0		75
Storage Lanes	0		0	0		1	0		1	0		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			1.00	0.97		1.00	0.97		0.99	0.97
Frt		0.998				0.850			0.850			0.850
Flt Protected		0.990			0.999			0.999			0.970	
Satd. Flow (prot)	0	1840	0	0	1861	1583	0	1861	1583	0	1807	1583
Flt Permitted		0.891			0.990			0.986			0.697	
Satd. Flow (perm)	0	1652	0	0	1844	1528	0	1836	1528	0	1289	1528
Right Turn on Red	•		Yes	•		Yes			Yes		1200	Yes
Satd. Flow (RTOR)		2				86			61	•		73
Link Speed (mph)		25			25			25			25	
Link Distance (ft)		450			2667			1328			1233	
Travel Time (s)		12.3			72.7			36.2			33.6	
Confl. Peds. (#/hr)	10	12.0	10	10	,	10	10	00.2	10	10	00.0	10
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Adj. Flow (vph)	72	294	5	4	201	86	5	196	17	145	89	73
Shared Lane Traffic (%)		201	•		201	00		100	1.1	110	00	70
Lane Group Flow (vph)	0	371	0	0	205	86	0	201	17	0	234	73
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	Lon	0	rugin	2011	0	rugiit	2010	0	rugiit	Lon	0	rugiit
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane		10			10			10			10	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	1.00	9	15	1.00	9	15	1.00	9	15	1.00	9
Number of Detectors	1	2		1	2	1	1	2	1	1	2	1
Detector Template	Left	Thru		Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Leading Detector (ft)	20	100		20	100	20	20	100	20	20	100	20
Trailing Detector (ft)	0	0		0	0	0	0	0	0	0	0	0
Detector 1 Position(ft)	0	0		0	0	0	0	0	0	0	0	0
Detector 1 Size(ft)	20	6		20	6	20	20	6	20	20	6	20
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex	Cl+Ex	CI+Ex	CI+Ex	Cl+Ex	CI+Ex	CI+Ex	CI+Ex
Detector 1 Channel	OITEX	OITEX		OITEX	OITEX	OITEX	OITEX	OIILX	OITEX	OITEX	OITEX	OI · LX
Detector 1 Extend (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(ft)	0.0	94		0.0	94	0.0	0.0	94	0.0	0.0	94	0.0
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		CI+Ex			CI+Ex			CI+Ex			Cl+Ex	
Detector 2 Type Detector 2 Channel		CITEX			CITEX			CITEX			CITEX	
		0.0			0.0			0.0			0.0	
Detector 2 Extend (s)	Dorm			Dorm		Dorm	Dorm		Dorm	Dorm		Dorm
Turn Type	Perm	NA		Perm	NA	Perm	Perm	NA	Perm	Perm	NA	Perm

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Protected Phases		4			8			2			6	
Permitted Phases	4			8		8	2		2	6		6
Detector Phase	4	4		8	8	8	2	2	2	6	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	14.0	14.0		14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Total Split (s)	30.0	30.0		30.0	30.0	30.0	24.0	24.0	24.0	24.0	24.0	24.0
Total Split (%)	55.6%	55.6%		55.6%	55.6%	55.6%	44.4%	44.4%	44.4%	44.4%	44.4%	44.4%
Maximum Green (s)	24.0	24.0		24.0	24.0	24.0	18.0	18.0	18.0	18.0	18.0	18.0
Yellow Time (s)	4.5	4.5		4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
All-Red Time (s)	1.5	1.5		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Lost Time Adjust (s)		0.0			0.0	0.0		0.0	0.0		0.0	0.0
Total Lost Time (s)		6.0			6.0	6.0		6.0	6.0		6.0	6.0
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None		None	None	None	None	None	None	None	None	None
Walk Time (s)	7.0	7.0		7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Flash Dont Walk (s)	11.0	11.0		11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Pedestrian Calls (#/hr)	0	0		0	0	0	0	0	0	0	0	0
Act Effct Green (s)		15.3			15.3	15.3		12.6	12.6		13.0	13.0
Actuated g/C Ratio		0.42			0.42	0.42		0.34	0.34		0.35	0.35
v/c Ratio		0.54			0.27	0.13		0.32	0.03		0.51	0.12
Control Delay		13.3			10.0	3.2		13.0	0.1		17.0	4.5
Queue Delay		0.0			0.0	0.0		0.0	0.0		0.0	0.0
Total Delay		13.3		,	10.0	3.2		13.0	0.1		17.0	4.5
LOS		В			В	Α		В	Α		В	A
Approach Delay		13.3			8.0			12.0			14.0	
Approach LOS		В			А			В			В	
		_									_	
Intersection Summary												
Area Type:	Other											
Cycle Length: 54												
Actuated Cycle Length: 36.	7											
Natural Cycle: 40												
Control Type: Actuated-Und	coordinated											
Maximum v/c Ratio: 0.54												
Intersection Signal Delay: 1					ntersection							
Intersection Capacity Utiliza	ation 74.3%			IC	CU Level	of Service	e D					
Analysis Period (min) 15												
Splits and Phases: 8: Lat	throp Ave 8	k Washing	ton Blvd									
↑ ø2				102	1 Ø4							
24 s				30 s								
♦ Ø6				4	Ø8							

Intersection												
Intersection Delay, s/veh	15.5											
Intersection LOS	С											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		414			4			4			4	
Traffic Vol, veh/h	114	241	19	10	243	23	11	155	31	13	148	89
Future Vol, veh/h	114	241	19	10	243	23	11	155	31	13	148	89
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	125	265	21	11	267	25	12	170	34	14	163	98
Number of Lanes	0	2	0	0	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		_
Opposing Lanes	1			2			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			2			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			1			2		
HCM Control Delay	15			17.1			14.2			15.6		
HCM LOS	В			C			В			С		
Lane		NBLn1	EBLn1		WBLn1	SBLn1						
Vol Left, %		6%	49%	0%	4%	5%						
Vol Left, % Vol Thru, %		6% 79%	49% 51%	0% 86%	4% 88%	5% 59%						
Vol Left, % Vol Thru, % Vol Right, %		6% 79% 16%	49% 51% 0%	0% 86% 14%	4% 88% 8%	5% 59% 36%						
Vol Left, % Vol Thru, % Vol Right, % Sign Control		6% 79% 16% Stop	49% 51% 0% Stop	0% 86% 14% Stop	4% 88% 8% Stop	5% 59% 36% Stop						
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane		6% 79% 16% Stop 197	49% 51% 0% Stop 235	0% 86% 14% Stop 140	4% 88% 8% Stop 276	5% 59% 36% Stop 250						
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol		6% 79% 16% Stop 197 11	49% 51% 0% Stop 235 114	0% 86% 14% Stop 140	4% 88% 8% Stop 276 10	5% 59% 36% Stop 250						
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol		6% 79% 16% Stop 197 11	49% 51% 0% Stop 235 114 121	0% 86% 14% Stop 140 0	4% 88% 8% Stop 276 10 243	5% 59% 36% Stop 250 13 148						
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol		6% 79% 16% Stop 197 11 155 31	49% 51% 0% Stop 235 114 121 0	0% 86% 14% Stop 140 0 121	4% 88% 8% Stop 276 10 243 23	5% 59% 36% Stop 250 13 148 89						
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate		6% 79% 16% Stop 197 11 155 31 216	49% 51% 0% Stop 235 114 121 0 258	0% 86% 14% Stop 140 0 121 19	4% 88% 8% Stop 276 10 243 23 303	5% 59% 36% Stop 250 13 148 89 275						
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp		6% 79% 16% Stop 197 11 155 31 216	49% 51% 0% Stop 235 114 121 0 258	0% 86% 14% Stop 140 0 121 19 153 7	4% 88% 8% Stop 276 10 243 23 303 5	5% 59% 36% Stop 250 13 148 89 275						
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X)		6% 79% 16% Stop 197 11 155 31 216 2	49% 51% 0% Stop 235 114 121 0 258 7 0.503	0% 86% 14% Stop 140 0 121 19 153 7 0.284	4% 88% 8% Stop 276 10 243 23 303 5 0.545	5% 59% 36% Stop 250 13 148 89 275 2						
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd)		6% 79% 16% Stop 197 11 155 31 216 2 0.403 6.7	49% 51% 0% Stop 235 114 121 0 258 7 0.503 7.022	0% 86% 14% Stop 140 0 121 19 153 7 0.284 6.677	4% 88% 8% Stop 276 10 243 23 303 5 0.545 6.471	5% 59% 36% Stop 250 13 148 89 275 2 0.491 6.433						
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N		6% 79% 16% Stop 197 11 155 31 216 2 0.403 6.7 Yes	49% 51% 0% Stop 235 114 121 0 258 7 0.503 7.022 Yes	0% 86% 14% Stop 140 0 121 19 153 7 0.284 6.677 Yes	4% 88% 8% Stop 276 10 243 23 303 5 0.545 6.471 Yes	5% 59% 36% Stop 250 13 148 89 275 2 0.491 6.433 Yes						
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap		6% 79% 16% Stop 197 11 155 31 216 2 0.403 6.7 Yes 535	49% 51% 0% Stop 235 114 121 0 258 7 0.503 7.022 Yes 513	0% 86% 14% Stop 140 0 121 19 153 7 0.284 6.677 Yes 537	4% 88% 8% Stop 276 10 243 23 303 5 0.545 6.471 Yes 555	5% 59% 36% Stop 250 13 148 89 275 2 0.491 6.433 Yes 558						
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time		6% 79% 16% Stop 197 11 155 31 216 2 0.403 6.7 Yes 535 4.761	49% 51% 0% Stop 235 114 121 0 258 7 0.503 7.022 Yes 513 4.778	0% 86% 14% Stop 140 0 121 19 153 7 0.284 6.677 Yes 537 4.432	4% 88% 8% Stop 276 10 243 23 303 5 0.545 6.471 Yes 555 4.53	5% 59% 36% Stop 250 13 148 89 275 2 0.491 6.433 Yes 558 4.489						
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		6% 79% 16% Stop 197 11 155 31 216 2 0.403 6.7 Yes 535 4.761 0.404	49% 51% 0% Stop 235 114 121 0 258 7 0.503 7.022 Yes 513 4.778 0.503	0% 86% 14% Stop 140 0 121 19 153 7 0.284 6.677 Yes 537 4.432 0.285	4% 88% 8% Stop 276 10 243 23 303 5 0.545 6.471 Yes 555 4.53 0.546	5% 59% 36% Stop 250 13 148 89 275 2 0.491 6.433 Yes 558 4.489 0.493						
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio HCM Control Delay		6% 79% 16% Stop 197 11 155 31 216 2 0.403 6.7 Yes 535 4.761 0.404 14.2	49% 51% 0% Stop 235 114 121 0 258 7 0.503 7.022 Yes 513 4.778 0.503 16.7	0% 86% 14% Stop 140 0 121 19 153 7 0.284 6.677 Yes 537 4.432 0.285 12.1	4% 88% 8% Stop 276 10 243 23 303 5 0.545 6.471 Yes 555 4.53 0.546 17.1	5% 59% 36% Stop 250 13 148 89 275 2 0.491 6.433 Yes 558 4.489 0.493 15.6						
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		6% 79% 16% Stop 197 11 155 31 216 2 0.403 6.7 Yes 535 4.761 0.404	49% 51% 0% Stop 235 114 121 0 258 7 0.503 7.022 Yes 513 4.778 0.503	0% 86% 14% Stop 140 0 121 19 153 7 0.284 6.677 Yes 537 4.432 0.285	4% 88% 8% Stop 276 10 243 23 303 5 0.545 6.471 Yes 555 4.53 0.546	5% 59% 36% Stop 250 13 148 89 275 2 0.491 6.433 Yes 558 4.489 0.493						





APPENDIX D: CRASH ANALYSIS

- 01. Top 10% Segment Crashes
- 02. Top 10% Intersection Crashes
- 03. Warrants





Top 10%- Segment Crashes



Segment - 10% Crash Locations

										Ove	rall (2	2016-202	20)	
Segment_ID	Primary Route	From	То	# Crashes	PG	Exclude?	Fatal	A-injury	B-injury	C-injury	PD	Score	PG Rank (hard)	PG % Tier (hard)
U1419_E	Madison St	Forest	Park	9	Primary		0	1	2	3	3	29	1	10%
U1419_G	Madison St	Franklin	Ashland	18	Primary		0	0	1	3	14	25	2	10%
U2753_J	Thatcher Ave	Augusta	Division	6	Primary		0	1	1	1	3	20	3	10%
U1394_I	Division St	Monroe	Bonnie Brae	3	Primary		0	0	3	0	0	15	4	10%
M2003_A	Forest Ave	Madison	Vine	1	Local		0	1	0	0	0	10	1	10%
M4000_C	Oak Ave	Forest	Park	2	Local		0	0	1	1	0	7	2	10%
M2006_B	Edgewood PI	Lake	Thatcher	1	Local		0	0	1	0	0	5	3	10%
M1003_B	Clinton PI	Quick	Oak	1	Local		0	0	1	0	0	5	3	10%
M2000_F	Ashland Ave	Lake	Oak	1	Local		0	0	1	0	0	5	3	10%



PG, FC & ADT Primary

| Main ID: U1419_E | Sub ID: ALL | Study Period Begin Year: | 2016 | to | 2021 |

County: Cook County

Analysis Period 6 years

		Rea	ar End			Angl	е	Sid		e Opp	osite		swipe S		1	Turning	Left		Tur	rning R	ight	F	ixed O	bject		Overtu	rned		Head	On		Pedestr	rian		Other C	bject		Anin	nal		Pedalcy	clist	Othe	r Non-C	ollision	TC	TAL
YEAR	Crash Count	n Inj	jury /pe	Injury Count	Crash Count	Injury Type	Injury Count	Cras Cour	sh Inj nt Ty	jury I	Injury Cr Count Cr	ash ount	Injury Type	Injury Count	Crash Count	Injury Type	/ Inj	ury C	rash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injur	Crasi t Cour	h Injur nt Type	y Injury Coun	y Cras	h Injur	/ Injury Coun	Crash Count	Injury t Type	Injury Coun	y Cras	h Injury nt Type	Injur Cour	y Crash t Coun	Injury t Type	Injur Cour	y Crash Coun	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Count
2016			nanananananananananananananananananana																																											0	
2017		A A A A A A A A A A A A A A A A A A A	A STATE OF THE STA												1	1 - B	1.	- BI	1	1-C	2 - CI	1	1-A	1 - A	1	ACRES CONTRACTOR OF THE SECOND CONTRACTOR OF T																				3	1 - AI 1 - BI 2 - CI
2018	2																		1																											3	
2019	1	1	- C	1 - CI																																				1	1 - B	1 - BI				2	1 - BI 1 - CI
2020	1	1	- C	1 - CI																						and the second s																				1	1 - CI
2021																																					•									0	
TOTAL	4	3	- C	2 - CI	0			0				0			1	1 - B	1	- BI	2	1-C	2 - CI	1	1 - A	1 - A	0	- AND		0			0		-	0			0			1	1 - B	1 - BI	0			9	1 - Al 2 - Bl 4 - Cl
%		_	4.4%		ì	0.0%				.0%			0.0%			11.1	%			22.2%			11.1	%		0.0	%		0.0	%		0.0%		K	0.0	%		0.0	6		11.19			0.0%			

			INJURY TYPE						ONDITIONS			TOTAL
YEAR	K	A	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016					0	0	-	0	-	0	-	0
2017		1	1	1	0	0	0%	0	0%	1	33%	3
2018					3	0	0%	0	0%	0	0%	3
2019			1	1	0	0	0%	0	0%	0	0%	2
2020				1	0	0	0%	0	0%	0	0%	1
2021					0	0	-	0	-	0	,	0
TOTAL	0	1	2	3	3	0	0.0%	0	0.0%	1	11.1%	9

PG, FC & ADT Primary

| Main ID: U1419_G | Sub ID: ALL | Study Period Begin Year: | 2016 | to | 2021 |

County: Cook County

Analysis Period 6 years

		Rea	ar End			Angl	e	Sic	ipe Op irection	posite		eswipe Direction			Turning	Left		Turning	Right		Fixed C	bject		Overtu	ned		Head (On	F	edestri	an	0	ther Ob	ject		Anima	al	F	Pedalcy	clist	Other	Non-Col	lision	то	TAL
YEAR	Crash	h Inj	jury /pe	Injury Count	Crash Count	Injury Type	Injury Coun	Cra t Cou		Injury Count				Crasi	n Injur	Inju	ry Cras	h Injury nt Type	/ Injury	Cras	h Injur	/ Injui	y Crasi	Injury t Type	Injury	Crash Count	Injury Type	Injury Count	Crash Count	Injury Count															
2016		-					and the same of th							1																														1	
2017		-																														1												1	
2018					2	1 - B	2 - B				2						2							- Company of the Comp					1	1-C	1-CI	1												8	2 - BI 1 - CI
2019																								-								P												0	
2020					2												1																											3	
2021					1									1	1-0	2-	1							and the second second								1												4	2 - CI
TOTAL	0				5	1-B	2 - B				2			2	1-0	2-	4			0			0			0			1	1-0	1-CI	3			0			0			0			17	2 - BI 3 - CI
%		0	0.0%			29.49	%		0.0%			11.8%	6		11.8	%		23.5	%		0.0	%		0.09	6		0.0%			5.9%			17.6%	,		0.0%			0.0%			0.0%			

			INJURY TYPE					CRASH CO	ONDITIONS			TOTAL
YEAR	K	Α	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016					1	0	0%	0	0%	0	0%	1
2017					1	0	0%	0	0%	0	0%	1
2018			1	1	6	1	13%	1	13%	1	13%	8
2019					0	0	-	0	-	0	-	0
2020					3	0	0%	0	0%	0	0%	3
2021				1	3	0	0%	0	0%	1	25%	4
TOTAL	0	0	1	2	14	1	5.9%	1	5.9%	2	11.8%	17

ID Name LOCATION INFO:

PG, FC & ADT County:

Cook County

Analysis Period 6 years

		Ros	ar En	d		Ang	lo.	Sid	ipe Op			eswipe			Turnin	n I off		Turning	Right		Fixed C	hiert		Overtu	rned		Head ()n	-	edestri	an	0	ther Ob	iort		Anim	al		Pedalcy	rlist	Other	r Non-C	ollision	TO	TAL
YEAR	Crash Count	_			Crash Count		/ Injur	Crast Cou	rection njury Type	Injury Count		Injury Type		_			iry Cras								y Injur	Crast t Coun									Crash Count				Injury Type		_				_
2016																-				1																								1	
2017	1		000000000000000000000000000000000000000													-																												1	
2018	1	1	- B	1 - BI																																								1	1 - BI
2019	1	0.0000000000000000000000000000000000000														-																P												1	
2020		-														-																												0	
2021																				1	1-7	A 1-	AI									1	1-C	1-CI										2	1 - Al 1 - Cl
TOTAL	3	1	- B	1 - BI	0			0			0			0		-	0			2	1-7	A 1-	AI 0			0			0	1		1	1-C	1 - CI	0			0			0			6	1 - AI 1 - BI 1 - CI
%		5	50.0%			0.0	%		0.0%			0.0%	,		0.0	%		0.0	%		33.3	3%		0.0	%		0.0%	,		0.0%			16.7%	,		0.0%			0.0%			0.0%			

			INJURY TYPE					CRASH CO	ONDITIONS			TOTAL
YEAR	K	A	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016					1	0	0%	1	100%	0	0%	1
2017					1	0	0%	0	0%	0	0%	1
2018			1		0	1	100%	0	0%	0	0%	1
2019					1	0	0%	0	0%	0	0%	1
2020					0	0	-	0	-	0	-	0
2021		1		1	0	1	50%	0	0%	1	50%	2
TOTAL	0	1	1	1	3	2	33.3%	1	16.7%	1	16.7%	6

PG, FC & ADT Primary

| Main ID: U1394_| | Sub ID: ALL | | Study Period Begin Year: | 2016 | to | 2021

County: Cook County

Analysis Period 6 years

				_				Side	ewino	Oppos	cito	Side	swipe	Same	_			_			_											_			_										
YEAR		Rear	End			Angle			Direc		5.10		Directio		1	Turning	Left	Ti	urning F	Right	Fix	ed Obj	ect	0	verturn	ed	ŀ	lead O	n	Pedestr	ian	(Other Ob	ject		Anima	ıl	Pe	edalcyc	list	Other	Non-Co	lision	тот	AL
	Crash Count	Injury Type	y Inj	ury C	rash	injury Type	Injury Count	Crash Count	n Inju t Typ	ry Inj	jury Count C	rash Jount	Injury Type	Injury Count	Crash Count	Injury Type	Injur Cour	Crash t Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Crasi Count Coun	n Injury t Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Count
2016					-																										enderenderenderenderen en e													0	
2017												1	1 - B	1 - BI										2000							- Announcement of the Control of the	1	1-B	1 - BI										2	2 - BI
2018																								1000																				0	
2019																								100000000000000000000000000000000000000								P												0	
2020	1	1 - E	3 1.	- BI																																								1	1 - BI
2021																																												0	
TOTAL	1	1 - E	3 1.	- BI	0			0				1	1-B	1 - BI	0			0			0			0			0		0		- Commence	1	1-B	1 - BI	0			0			0			3	3 - BI
%		33.3	1%			0.0%			0.0	0%			33.3%			0.0%			0.0%			0.0%			0.0%			0.0%		0.0%			33.3%	,		0.0%			0.0%			0.0%			

			INJURY TYPE						ONDITIONS			TOTAL
YEAR	K	Α	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016					0	0	-	0	-	0	-	0
2017			2		0	0	0%	0	0%	1	50%	2
2018					0	0	-	0	-	0		0
2019					0	0	-	0	-	0		0
2020			1		0	0	0%	0	0%	0	0%	1
2021					0	0	-	0	-	0	,	0
TOTAL	0	0	3	0	0	0	0.0%	0	0.0%	1	33.3%	3

ID Name LOCATION INFO:

PG, FC & ADT County: Cook County | Main ID: M2003 A | Sub ID: ALL | Study Period Begin Year: | 2016 | to | 2021 |

Analysis Period 6 years

ounty:				DOK COI	unty																				Analys		0)	- Caro																					
		Rear	End			Ang	le	Sic		pe Opprection	posite	Side	eswipe Directi	Same on		Turnir	ng Left	t	Tu	ning R	ight	F	ixed O	Object		Overt	urned		Н	ead Or	1	P	edestri	ian		Other C	Object		An	imal		Pe	dalcycl	ist	Other	Non-Co	llision	TC	DTAL
YEAR	Crash Count		iry I	njury Count	Crash Count	Injury Type	Injur Cour	y Cra	sh In unt T	njury 'ype	Injury Count	Crash Count	Injury Type	Injury	Cras t Cou	sh Inju	ry Ir ie C	njury (Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	y Inju	ry Crasi nt Cour	h Inju	ry Inj ne Co	ury C	crash I	njury Гуре	Injury Count	Crash Count	Injury Type	Injury Coun	Crasi Coun	n Injur	y Inju	ry Cra int Cou	sh Inju	iry In	jury Count C	rash	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injur
2016																	***************************************									an a construction of the c																						0	
2017																	-																															0	
2018																	-																			•												0	
2019																	-																															0	
2020																	-																															0	
2021															1	1-	A 2	- AI																														1	2-4
TOTAL	0				0			0				0			1	1-	A 2	- AI	0			0			0	- Constitution of the Cons			0			0	7					0				0			0			1	2 - 1
%		0.0	0%			0.09	%		-	0.0%			0.0%	,		100	.0%			0.0%			0.0	%		0.0	0%			0.0%			0.0%		17	0.0	%		0.	0%			0.0%			0.0%			

			INJURY TYPE						ONDITIONS			TOTAL
YEAR	K	Α	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016					0	0	-	0	-	0	-	0
2017					0	0	-	0	-	0	-	0
2018					0	0	-	0	-	0	-	0
2019					0	0	-	0	-	0	-	0
2020					0	0	-	0	-	0	-	0
2021		1			0	0	0%	0	0%	1	100%	1
TOTAL	0	1	0	0	0	0	0.0%	0	0.0%	1	100.0%	1

PG, FC & ADT

County: Cook County

Analysis Period 6 years

	_							1 6:4		е Орро		6:4		Same	_																			_													
		Rear	End			Angle	,	Siu	Dire		osite		Directi			Turnin	g Left		Turr	ning Righ	nt	Fixe	d Obj	ect	C	vertur	ed		Head O	n	Pe	destria	ın	0	ther Ob	ject		Anima		P	edalcy	list	Other	Non-Col	lision	тот	AL
YEAR	Crash Count	Inju Typ	ry Ir ie C	njury (Crash Count	Injury Type	Injury Count	Cras	h Inju	ury Ir pe C	njury Count	Crash Count	Injury Type	Injur	y Cras Cour	h Injur	y Inj	jury Cr ount Co	ash I	Injury Ir Type C	njury ount	Crash I Count	njury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury C Count C	rash I	Injury Type	Injury Count	Crash Count	Injury Count												
2016			TOTAL DESCRIPTION OF THE PERSON OF THE PERSO		- Anna anna anna anna anna anna anna ann																																									0	
2017																																														0	
2018					0.000																	1	1 - B	2 - BI																						1	2 - BI
2019			-																																											0	
2020																						1	1-C	2 - CI																						1	2 - CI
2021			-																																											0	
TOTAL	0				0			0				0			0				0			2	I - B	2 - BI 2 - CI	0			0			0	-		0			0			0			0				2 - BI 2 - CI
%		0.0	0%			0.0%			0.	.0%			0.0%	5		0.0	%			0.0%		1	00.0%			0.0%			0.0%			0.0%			0.0%			0.0%			0.0%			0.0%			

			INJURY TYPE						ONDITIONS			TOTAL
YEAR	K	A	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016					0	0	-	0	-	0	-	0
2017					0	0	-	0	-	0	-	0
2018			1		0	0	0%	0	0%	1	100%	1
2019					0	0	-	0	-	0		0
2020				1	0	0	0%	0	0%	1	100%	1
2021					0	0	-	0		0	·	0
TOTAL	0	0	1	1	0	0	0.0%	0	0.0%	2	100.0%	2

 ID Name
 M2006_B

 LOCATION INFO:
 Edgewood Pt: Lake - Thatcher

 PG, FC & ADT
 Local

 County:
 Cock County

0.0%

YEAR
2016
2017

2021

TOTAL

0.0%

0.0%

| Main ID: M2006_B | Sub ID: ALL | Study Period Begin Year: | 2016 | to | 2021 |

1 1-B 1-BI

100.0% 0.0%

0.0%

Fi	xed Obj	ect	C	verturn	ed		Head O	n	F	Pedestri	an	0	her Obj	ject		Anima	1	Р	edalcyc	list	Other	Non-Co	ollision	то	TAL
Crash Count	Injury Type	Injury Count	Crash Count	Injury Count																					
																								0	
																								0	
													4											0	
1	1 - B	1 - BI																						1	1 - BI

0.0%

0.0%

0.0% 0.0%

			INJURY TYPE						ONDITIONS			TOTAL
YEAR	K	Α	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	IOIAL
2016					0	0	-	0	-	0	-	0
2017					0	0	-	0	-	0	-	0
2018					0	0	-	0	-	0	-	0
2019			1		0	1	100%	0	0%	1	100%	1
2020					0	0	-	0	-	0	-	0
2021					0	0	-	0	-	0	·	0
TOTAL	0	0	1	0	0	1	100.0%	0	0.0%	1	100.0%	1

0.0%

0.0%

0.0%

Sheet 1 of 1

0

1

PG, FC & ADT

| Main ID: M1003 B | Sub ID: ALL | Study Period Begin Year: | 2016 | to | 2021 |

County: Cook County

Analysis Period 6 years

	_							6:4		е Орр		6:4-	swipe		_			_			_			_																						
		Rear	End			Angle	•	Siu		ection	OSILE		Directio			Turning	Left		Turning	Right	- 1	Fixed O	bject		Overtu	rned		Head C)n	P	Pedestri	ian	0	ther Ob	ject		Anima	al	F	Pedalcy	list	Other	Non-Co	llision	TO	ΓAL
YEAR	Crash	n Inju	ry Ir e C	njury (Crash Count	Injury Type	Injury Count	Cras	sh Inj	jury I	Injury C Count C	rash Jount	Injury Type	Injury Count	Crash	Injury Type	Inju Cou	ry Cras	h Injury nt Type	Injury	Crasi	h Injury it Type	/ Inju Cou	y Crasi nt Cour	h Injur	Injury Coun	Crash Count	Injury Type	Injury Count	Crash Count	Injury Count															
2016		A CONTRACTOR OF THE CONTRACTOR	Accompany		Annanananananananananananananananananan																																								0	
2017					- Contractor Contracto																				ACRES CONTRACTOR OF THE SECOND																				0	
2018																					1	1 - B	1-1	31																					1	1 - BI
2019																																	P												0	
2020																																													0	
2021																									The second secon																				0	
TOTAL	0				0			0				0			0			0			1	1-8	1-1	0	CONTRACTOR DESCRIPTION OF		0			0			0			0			0			0			1	1 - BI
%		0.0	0%			0.0%			(0.0%			0.0%			0.0%	6		0.0	6		100.0	0%		0.0	%		0.0%			0.0%			0.0%			0.0%			0.0%			0.0%			

			INJURY TYPE					CRASH CO	ONDITIONS			TOTAL
YEAR	K	Α	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016					0	0	-	0	-	0	-	0
2017					0	0	-	0	-	0	-	0
2018			1		0	0	0%	0	0%	0	0%	1
2019					0	0	-	0	-	0		0
2020					0	0	-	0	-	0		0
2021					0	0	-	0	-	0	,	0
TOTAL	0	0	1	0	0	0	0.0%	0	0.0%	0	0.0%	1

 ID Name
 M2000_F

 LOCATION INFO:
 Ashand Ave: Lake - Oak

 PG, FC & ADT
 Local

County: Cook County

Analysis Period 6 years

	_							6:4-	swipe	. ^		Pidee.	wipe S																																	
		Rear	End			Angle			Dire		osite		rection		Т	urning	Left	Tu	rning R	ight	Fi	ixed Ob	ject	C	verturn	ed	l	Head O	n	Р	edestri	an	0	ther Ob	ject		Anima	ıl	Р	edalcyc	list	Other	Non-Coll	ision	TO	TAL
YEAR	Crash Count	n Injur	ry In e C	jury ount C	Crash Count	Injury Type	Injury Count	Crash Coun	h Inju	iry li	njury Cra ount Co	ash Ir unt T	njury Type	Injury Count	Crash Count	Injury Type	njury Count	Crash Count	Injur																											
2016																																													0	
2017					-																																								0	
2018																																													0	
2019																																													0	
2020																																													0	
2021																													•				1	1 - B	1 - Bi										1	1 - 6
TOTAL	0				0			0)			0			0			0			0			0			0			1	1-B	1 - BI	0			0			0			1	1-6
%		0.0	1%			0.0%			0.	0%			0.0%			0.0%			0.0%			0.0%			0.0%			0.0%			0.0%			100.0%	-		0.0%			0.0%			0.0%			

			INJURY TYPE						ONDITIONS			TOTAL
YEAR	K	A	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016					0	0	-	0	-	0	-	0
2017					0	0	-	0	-	0	-	0
2018					0	0	-	0	-	0	-	0
2019					0	0	-	0	-	0	-	0
2020					0	0	-	0	-	0	-	0
2021			1		0	0	0%	0	0%	0	0%	1
TOTAL	0	0	1	0	0	0	0.0%	0	0.0%	0	0.0%	1





Top 10%- Intersection Crashes



Intersection - 10% Crash Locations

													(verall (2	2016-2021)	
Intersection_ID	Street 1	Street 2	# Crashes	TC	# Legs	Classification	PG	Exclude?	Fatal	A-injury	B-injury	C-injury	PD Sc	ore	PG Rank (hard)	PG % Tier (hard)
U2753-U1411	Thatcher Ave	Washington Blvd	28	AWS	4	AWS - 4	AWS		0	1	4	3	20 5	6	1	10%
M2000-U3537	Ashland Ave	Lake St	26	Minor leg stop control (N/S)	4	Minor leg stop control (N/S) - 4	Minor Stop - 4 Leg		0	1	4	3	18 5	4	1	10%
U2753-U1398	Thatcher Ave	Chicago Ave	24	Signalized	4	Signalized - 4	Signalized		0	0	6	2	16 5	0	1	10%
U1398-U1396	Chicago Ave	William St	11	AWS	4	AWS - 4	AWS		0	1	6	2	2 4	6	2	10%
U2765-U1394	Lathrop Ave	Division St	19	AWS	4	AWS - 4	AWS		0	0	5	1	13 4	0	3	10%
U1411-M2000	Washington Blvd	Ashland Ave	21	Minor leg stop control (N/S)	4	Minor leg stop control (N/S) - 4	Minor Stop - 4 Leg		0	0	4	1	16 3	8	2	10%
U2753-M3001	Thatcher Ave	Greenfield St	8	Minor leg stop control (E/W)	3	Minor leg stop control (E/W) - 3	Minor Stop - 3 Leg		1	0	0	2	5 3	4	1	10%
U2753-U1394	Thatcher Ave	Division St	18	Minor leg stop control (E/W)	3	Minor leg stop control (E/W) - 3	Minor Stop - 3 Leg		0	1	1	1	15 3	2	2	10%
M4005-M2004	Hawthorne Ave	Keystone Ave	7	Minor leg stop control (N/S)	Offset-4	Minor leg stop control (N/S) - Offset-4	Minor Stop - 3 Leg		1	0	0	0	6 3	1	3	10%
U1411-M2005	Washington Blvd	Gale Ave	14	Minor leg stop control (N/S)	4	Minor leg stop control (N/S) - 4	Minor Stop - 4 Leg		0	0	3	3	8 2	9	3	10%
U1419-U2765	Madison St	Lathrop Ave	20	Minor leg stop control (N/S)	3	Minor leg stop control (N/S) - 3	Minor Stop - 3 Leg		0	0	2	1	17 2	9	4	10%
U3537-M2004	Lake St	Keystone Ave	13	Minor leg stop control (N/S)	4	Minor leg stop control (N/S) - 4	Minor Stop - 4 Leg		0	0	3	2	8 2	7	4	10%
U1398-M1000	Chicago Ave	Jackson Ave	13	Minor leg stop control (N/S)	4	Minor leg stop control (N/S) - 4	Minor Stop - 4 Leg		0	0	3	2	8 2	7	4	10%

PG, FC & ADT AWS

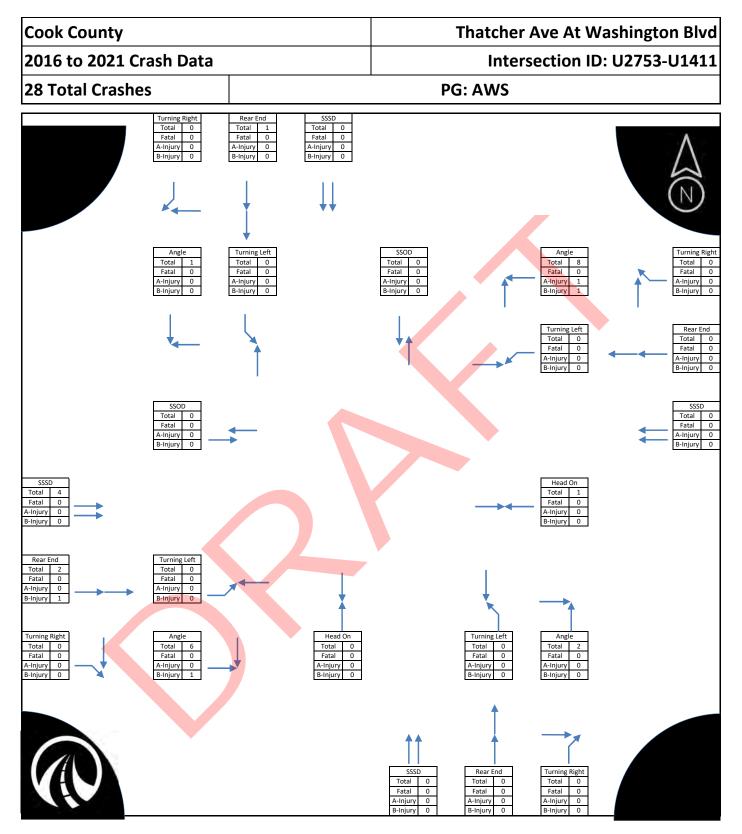
| Main ID: U2753-U1411 | Sub ID: ALL | Study Period Begin Year: | 2016 | to | 2021 |

County: Cook County

Analysis Period 6 years

		Rear	End			Angle	,	Side	Swipe		te S	ideswi Dire		е	Turnin	g Left		Turning	Right		Fixed OI	ject	C	verturn	ed		Head C)n	F	Pedestri	ian	0	ther Ob	ject		Anim	al		Pedalcy	clist	Othe	r Non-C	ollision	TO	OTAL
YEAR	Crash	Injur	y Inj	ury C	Crash Count	Injury Type	Injury Count	Crash			y Cras			ury Cra	sh Injur	y Inju	ry Cras	h Injur	/ Injury Count	Crasi	Injury t Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Count
2016	1	Tananananananananananananananananananan	-		3	1-A	1 - AI				1													ACCRETE TO THE PERSON		1												1	1-B	1 - BI				7	1 - AI 1 - BI
2017	2	1-B	1 -		5						1									1																								9	1 - BI 1 - CI
2018					5	1-B 1-C	3 - BI 4 - CI				1																																	6	3 - BI 4 - CI
2019					3																			NATIONAL PROPERTY OF THE PROPE																				3	
2020					1	1-B	1 - BI									-								aracreteronamenteron																				1	1 - BI
2021											1																											1	1-C	1 - CI				2	1 - CI
TOTAL	3	1-E	3 1-	·BI	17	2 - B	1 - Al 4 - Bl 4 - Cl	0			4			c		-	0			1			0	NACHORAN MANAGARAN M		1			0			0		-	0			2	1-B 1-C	1-BI 1-CI	0			28	1 - AI 6 - BI 6 - CI
%		10.7	%			60.7%	,		0.0	%		14	3%		0.0	%		0.0	%		3.6%			0.0%			3.6%			0.0%			0.0%			0.0%			7.1%			0.0%			

			INJURY TYPE					CRASH CO	ONDITIONS			TOTAL
YEAR	K	A	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016		1	1		5	2	29%	0	0%	2	29%	7
2017			1	1	7	2	22%	1	11%	1	11%	9
2018			1	1	4	2	33%	0	0%	2	33%	6
2019					3	1	33%	1	33%	1	33%	3
2020			1		0	0	0%	0	0%	1	100%	1
2021				1	1	0	0%	0	0%	0	0%	2
TOTAL	0	1	4	3	20	7	25.0%	2	7.1%	7	25.0%	28



The following crashes could not be plotted on the diagram

	FO	OT	PD	PDC	00	Animal	ONC	TOTAL
Total	1	0	0	2	0	0	0	3
Fatal	0	0	0	0	0	0	0	0
A-Injury	0	0	0	0	0	0	0	0
B-Injury	0	0	0	1	0	0	0	1

PG, FC & ADT Minor Stop - 4 Leg

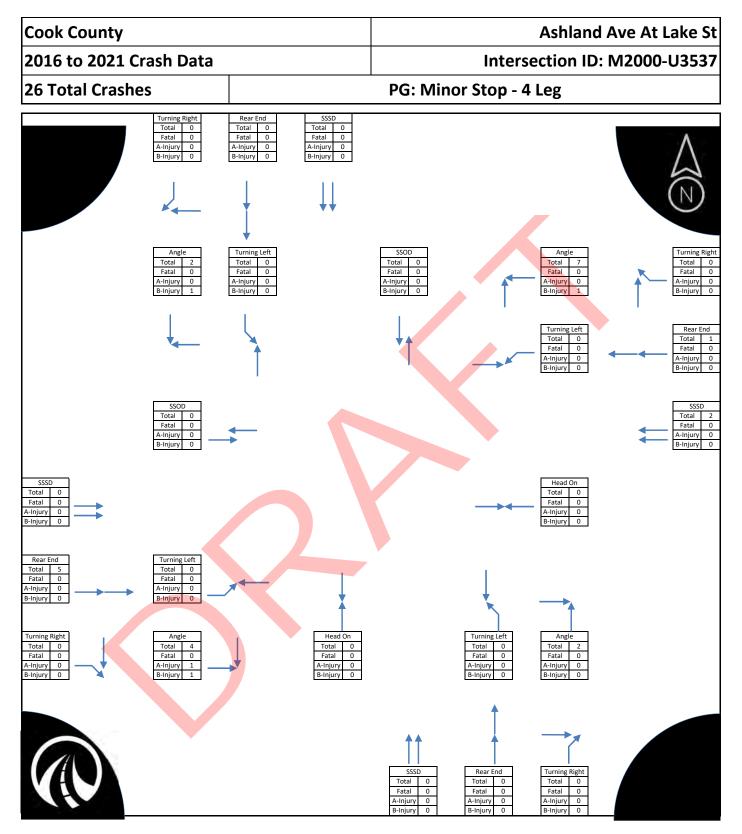
| Main ID: M2000-U3537 | Sub ID: ALL | Study Period Begin Year: | 2016 | to | 2021 |

County: Cook County

Analysis Period 6 years

				-					A	pposite	e:	deswip	- 6								_						_																_				
		Rear E	nd		Ang	le	ľ		irectio		311	Direc		1	Turn	ing Le	eft	Τι	rning l	Right		Fixed C	bject		Over	turned		He	ad Or	1	P	Pedestri	ian	C	ther Ob	ject		Anim	al		Pedalcy	rclist	Othe	r Non-0	Collision	T	OTAL
YEAR	Crash Count	Injury Type	Injury Coun	Cras Cour	n Injur	/ Inju Cou	ry Ci	ash ount	Injury Type	Injury Count	Crash Coun	Injur	y Inju	ry Cr int Co	ash In ount T	jury ype	Injury Count	Crash Count	Injury Type	Injury Count	Cras Cour	h Injur	/ Inji	ury Crar unt Cou	sh Inji int Ty	ury Inj	ury Co	rash li count 1	njury 'ype	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Coun	Injury Type	Injury Coun	Crash t Coun	Injury Type	Injury Count	Crash Count	Injury Count
2016	3			4	1-4	1	AI																		and the second s									2												9	1 - AI
2017	1	1-C	1-C	1							1														and the second s																					3	1 - CI
2018	1	1-C	1 - C	5	2 - E	4-1	ВІ				1					-																		1	1 - B	2 - BI										8	6 - BI 1 - CI
2019				2												-																		P												2	
2020	1			1	1-0	1-1	CI																		acara acara acara acara																					2	1 - CI
2021				2	1-8	1-1	ВІ																		and an action of the second																					2	1 - BI
TOTAL	6	2-C	2 - C	15	3 - E	1 1 5-1	BI	0			2				0			0			0			0	- Constitution of the Cons			0			0			3	1-B	2 - BI	0			0			0			26	1 - AI 7 - BI 3 - CI
%		23.19			57.7	%			0.0%			7.7	%			0.0%			0.0%			0.0	%		0	.0%			0.0%			0.0%			11.59	,		0.0%			0.09	6		0.09	6		

			INJURY TYPE					CRASH CO	ONDITIONS			TOTAL
YEAR	K	Α	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016		1			8	0	0%	1	11%	1	11%	9
2017				1	2	1	33%	0	0%	1	33%	3
2018			3	1	4	4	50%	0	0%	2	25%	8
2019					2	0	0%	0	0%	0	0%	2
2020				1	1	1	50%	0	0%	0	0%	2
2021			1		1	0	0%	0	0%	0	0%	2
TOTAL	0	1	4	3	18	6	23.1%	1	3.8%	4	15.4%	26



The following crashes could not be plotted on the diagram

	FO	OT	PD	PDC	00	Animal	ONC	TOTAL
Total	0	0	0	0	3	0	0	3
Fatal	0	0	0	0	0	0	0	0
A-Injury	0	0	0	0	0	0	0	0
B-Injury	0	0	0	0	1	0	0	1

PG, FC & ADT Signalized

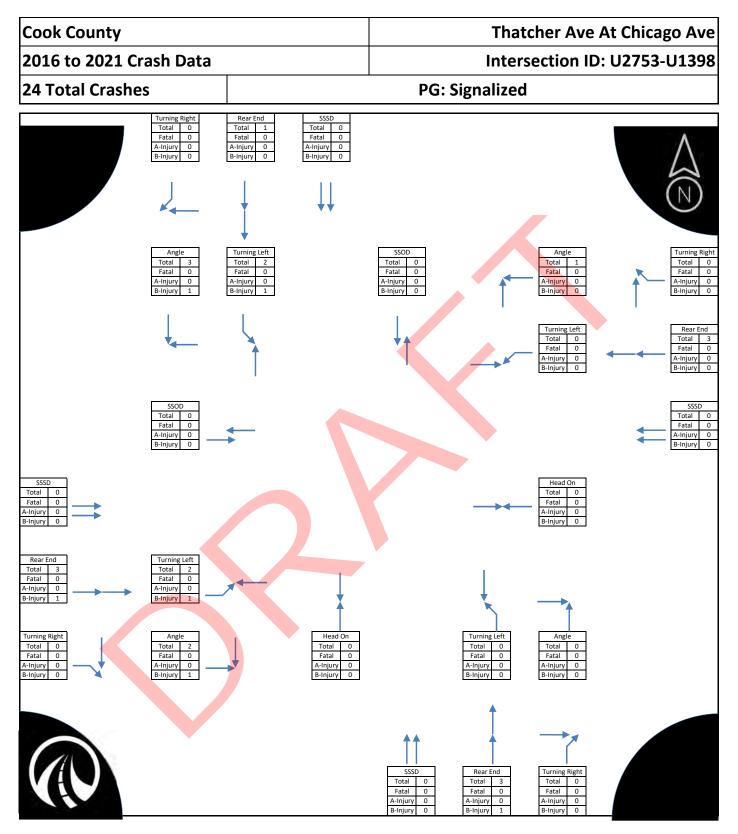
| Main ID: U2753-U1398 | Sub ID: ALL | Study Period Begin Year: | 2016 | to | 2021 |

County: Cook County

Analysis Period 6 years

		Rear E	nd		An	gle			wipe C	pposite	e S	deswip		•	Turn	ing L	eft	Tu	ırning l	Right		Fixed O	bject		Overturi	ned		Head C)n	P	Pedestri	ian	(Other Ol	oject		Anim	nal		Pedalcy	rclist	Othe	r Non-C	ollision	TO	OTAL
YEAR	Crash Count	Injury Type	Injury	Cras	sh Inju	ry Ir	njury Jount		_	Injury Coun	Cras		$\overline{}$	ry Cra	ash In	jury ype	Injury Count	Crash Count	Injury Type	Injury	Crash	n Injury t Type	Injury	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash	Injury Type	Injury	Crash Count	Injury Type	Injury	Crasi Coun	h Injury it Type	Injury	Crash	Injury Type	Injury Count	Crash Count	Injury Count
2016	1	1-C	1-C	2	1-	В 1	- BI								1										A TOTAL DE LA CASTA DE LA CAST																				4	1 - BI 1 - CI
2017	3	1-C	1-C												2 1	- B	2 - BI																						1						6	2 - BI 1 - CI
2018	2	1-B	1 - B												1 1	- B	1 - BI																			1									4	2 - BI
2019	2																																P												2	
2020	1			3	1-	В 1	I - BI														1																								5	1 - BI
2021	1	1-B	1-B	1 1																	1																								3	1 - BI
TOTAL	10	2-B 2-C	2 - B 2 - C	6	2 -	В 2	? - BI	0			0			4	2	-В	3 - BI	0			2			0			0			0			0			1			1			0			24	7 - BI 2 - CI
%		41.79	6		25.	0%			0.09	,		0.0	%		1	6.7%			0.0%			8.3	6		0.0%			0.0%			0.0%			0.0%	,		4.29	6		4.29	5		0.0%			

			INJURY TYPE					CRASH C	ONDITIONS			TOTAL
YEAR	K	A	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016			1	1	2	0	0%	0	0%	0	0%	4
2017			1	1	4	1	17%	0	0%	1	17%	6
2018			2		2	0	0%	0	0%	2	50%	4
2019					2	0	0%	1	50%	1	50%	2
2020			1		4	1	20%	0	0%	0	0%	5
2021			1		2	0	0%	0	0%	1	33%	3
TOTAL	0	0	6	2	16	2	8.3%	1	4.2%	5	20.8%	24



The following crashes could not be plotted on the diagram

	FO	OT	PD	PDC	00	Animal	ONC	TOTAL
Total	2	0	0	1	0	1	0	4
Fatal	0	0	0	0	0	0	0	0
A-Injury	0	0	0	0	0	0	0	0
B-Injury	0	0	0	0	0	0	0	0

ID Name LOCATION INFO:

PG, FC & ADT County:

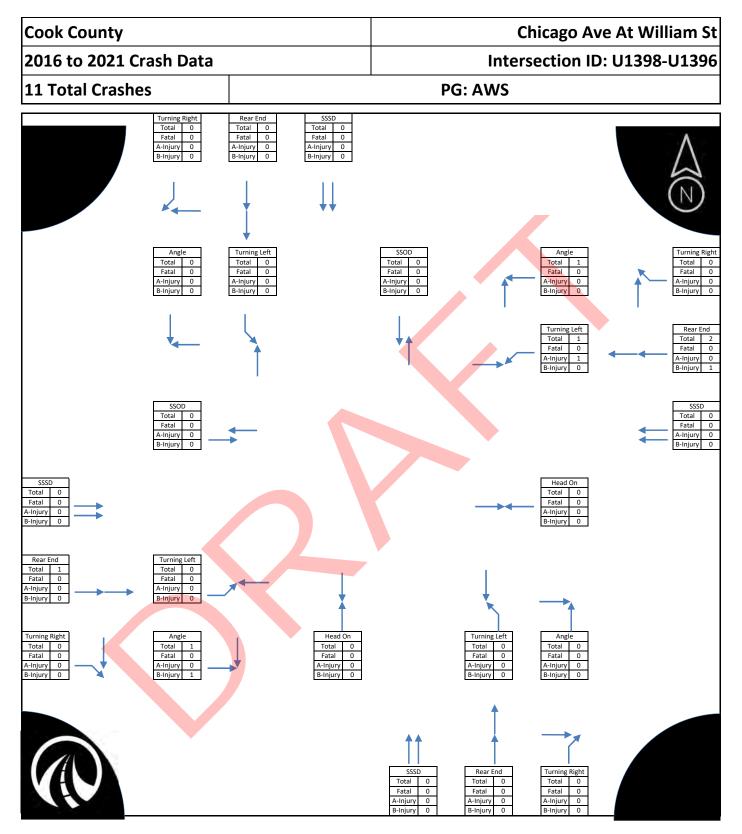
| Main ID: U1398-U1396 | Sub ID: ALL | Study Period Begin Year: | 2016 | to | 2021 |

Cook County

Analysis Period 6 years

				_				81.				81.			_							_			_													_			_			_				
		Rear	End			Angle	•	Sia		ipe Op rection			leswipe Directi			Turni	ng Le	ft	Τι	urning	Right		Fixed	Objec	t	٥١	verturn	ed		Head C	n	F	Pedestri	ian	(Other Ol	oject		Anin	ıal		Pedalc	clist	Oth	ner Nor	n-Collision	TC	TAL
YEAR	Crash Count		iry Ir	njury ount	Crash Count	Injury Type	Injury Count	Cras t Cou	sh li int 1	njury Type	Injury Count	Crash Count	Injury Type	Injury Coun	Cras t Cou	sh Inj nt Ty	ury pe	Injury Count	Crash Count	Injury Type	Injury Coun	Cras Cou	h Inju	ry Ir ie C	njury (Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injur	y Cras	h Injury it Type	Injur	y Cras	sh Inju nt Typ	iry Injury ce Count	Crash Count	Injury Count
2016			NA THE PROPERTY OF THE PERSON NAMED IN		1										1	1-	- А	1 - AI								necessaries en															1	1 - B	1 - B	1			3	1 - AI 1 - BI
2017	1		- Company of the Comp		1	1 - B	1 - BI	ı																		AND DESCRIPTION OF THE PARTY OF															1	1 - B	1 - B	a			3	2 - BI
2018																										- Constitution of the Cons										<											0	
2019	2	1-	B 1	- BI																		1	1-	B 1	- BI	-									P												3	2 - BI 2 - CI
2020																										nonenenenenenen																					0	
2021																						1	1-	B 1	- BI	- Anna anna anna anna anna anna anna ann						1	1-C	1 - CI													2	1 - BI 1 - CI
TOTAL	3	1 1 -	B 1	-BI	2	1 - B	1 - BI	0				0			1	1	- А	1 - AI	0			2	2 -	В 2	-BI	0			0			1	1-C	1 - CI	0			0			2	2 - B	2 - B	. 0			11	1 - AI 6 - BI 3 - CI
%		27	.3%			18.2%				0.0%			0.09	5		9	.1%			0.0%	6		18.	2%			0.0%			0.0%			9.1%			0.0%	,		0.09	5		18.2	%		0.0	0%		

			INJURY TYPE					CRASH CO	ONDITIONS			TOTAL
YEAR	K	Α	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016		1	1		1	2	67%	0	0%	1	33%	3
2017			2		1	0	0%	0	0%	0	0%	3
2018					0	0	-	0	-	0		0
2019			2	1	0	2	67%	0	0%	2	67%	3
2020					0	0	-	0	-	0		0
2021			1	1	0	1	50%	0	0%	1	50%	2
TOTAL	0	1	6	2	2	5	45.5%	0	0.0%	4	36.4%	11



The following crashes could not be plotted on the diagram

	FO	OT	PD	PDC	00	Animal	ONC	TOTAL
Total	2	0	1	2	0	0	0	5
Fatal	0	0	0	0	0	0	0	0
A-Injury	0	0	0	0	0	0	0	0
B-Injury	2	0	0	2	0	0	0	4

ID Name LOCATION INFO:

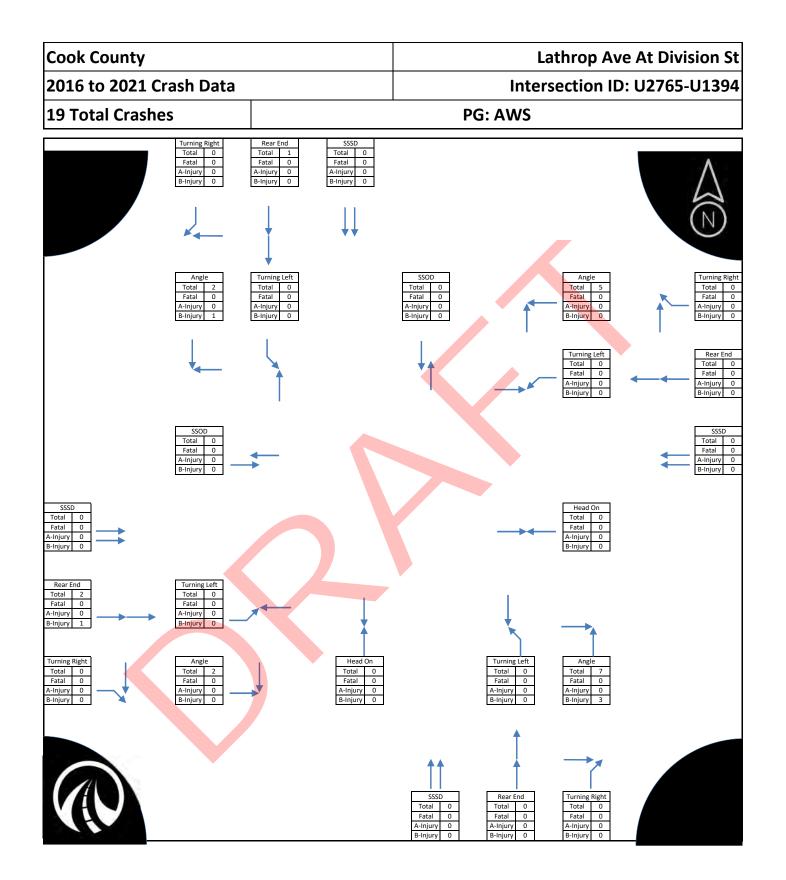
PG, FC & ADT County:

Cook County

Analysis Period 6 years

					_							81.1									_									_																
		Rea	r End			Angl	e	Sic		ipe Opp rection			eswipe Direction			Turning	g Left		Turning	Right		Fixed O	bject		verturn	ed	1	Head O	n	Р	edestri	an	0	ther Ob	ject		Anima	al	F	Pedalcy	list	Other	Non-Co	ollision	TO	TAL
YEAR	Crash Count	n Inji	ury pe	Injury Count	Crash Count	Injury Type	Injury Coun	Cra t Cou	ish li unt 1	njury Type	Injury Count	Crash Count	Injury Type	Injury	Crasi	h Injury it Type	y Inju	ury Cra unt Cou	sh Injur int Type	y Injury Count	Cras Cou	h Injury nt Type	Injun	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injur
2016					2																				**************************************																				2	
2017	2	1 -	-В	1 - BI	5	2-B 1-C	3 - Bi																		ACADOMIC ACADOMICA ACADOMIC ACADOMIC ACADOMIC ACADOMIC ACADOMIC ACADOMIC ACADOMICA ACADOMIC ACADOMIC ACADOMIC ACADOMIC ACADOMIC ACADOMIC ACADOMICA																				7	4 - B 1 - C
2018					1																																								1	
2019					6	2 - B	6 - B	1																									P												6	6 - B
2020	1																																												1	
2021					2																																								2	
TOTAL	3	1.	-В	1 - BI	16	4-B 1-C	9 - B 1 - C	0				0			0			0			0			0	NACO AND		0			0	7		0			0			0			0			19	10 - E
%		15	5.8%			84.29	%			0.0%			0.0%			0.0	%		0.0	%		0.09	,		0.0%			0.0%			0.0%			0.0%			0.0%			0.0%			0.0%			

			INJURY TYPE						ONDITIONS			TOTAL
YEAR	K	A	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016					2	0	0%	0	0%	0	0%	2
2017			3	1	3	1	14%	0	0%	2	29%	7
2018					1	0	0%	0	0%	0	0%	1
2019			2		4	1	17%	0	0%	3	50%	6
2020					1	0	0%	0	0%	0	0%	1
2021					2	0	0%	1	50%	1	50%	2
TOTAL	0	0	5	1	13	2	10.5%	1	5.3%	6	31.6%	19



ID Name U1411-M2000

LOCATION INFO: Washington Blvd At Ashland Ave

PG, FC & ADT Minor Stop - 4 Leg

| Main ID: U1411-M2000 | Sub ID: ALL | | Study Period Begin Year: | 2016 | to | 2021 |

County: Cook County

Analysis Period 6 years

		Rear	End			Angl	9	Sid	e Opp	osite		swipe		Turning	Left	1	urning	Right	F	Fixed Ol	oiect		Overtur	ned		Head C	n	Pe	destria	ın	0	ther Ob	iect		Anim	ıal		Pedalcy	clist	Othe	r Non-C	ollision	TO	OTAL
YEAR	Crash	Injur Type	y Ir	jury ount	Crash Count		Injury	Cras	jury li ype C	njury (Injury Type	_		_				_		-	Crash	Injury Type	Injury Count	Crash	Injury Type	Injury Count							Crash	Injury Type	Injury	_		Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Count
2016			-		2	1 - B	2 - BI																- Andrews and Andrews																				2	2 - BI
2017			A STATE OF THE STA		5	2 - B	4 - BI						1						1												1												8	4 - BI
2018	3	1-1	3 2	- BI	2	1-C	1 - Cl																								1												6	2 - BI 1 - CI
2019					1																										P												1	
2020	1				3																																						4	
2021																																											0	
TOTAL	4	1-1	3 2	-BI	13	3 - B 1 - C	6 - BI 1 - CI	0			0		1			0			1			0			0			0			2			0			0			0			21	8 - BI 1 - CI
%		19.0	0%			61.99	6		0.0%			0.0%		4.89	6		0.0	%		4.8%	,		0.0%	6		0.0%			0.0%			9.5%			0.0%	6		0.0%	,		0.0%			

			INJURY TYPE					CRASH CO	ONDITIONS			TOTAL
YEAR	K	A	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016			1		1	0	0%	1	50%	2	100%	2
2017			2		6	0	0%	0	0%	1	13%	8
2018			1	1	4	1	17%	2	33%	1	17%	6
2019					1	1	100%	0	0%	0	0%	1
2020					4	1	25%	0	0%	0	0%	4
2021					0	0	-	0		0	ï	0
TOTAL	0	0	4	1	16	3	14.3%	3	14.3%	4	19.0%	21

Washington Blvd At Ashland Ave Cook County Intersection ID: U1411-M2000 2016 to 2021 Crash Data PG: Minor Stop - 4 Leg 21 Total Crashes Turning Right Total 0 Total 0 Total 0 0 0 Fatal 0 A-Injury 0 B-Injury 0 Fatal 0 A-Injury 0 Fatal A-Injury Total Total 0 Total Rear End Fatal 0 Fatal 0 A-Injury 0 B-Injury 0 A-Injury 0 Fatal 0 Fatal 0 A-Injury 0 A-Injury 0 SSSD Total 0 Total 0 Fatal 0 Fatal 0 A-Injury 0 Turning Left Rear End Total 0 Fatal 0 0 A-Injury 0 Turning Right Angle Head On Turning Left Angle Total 0 Total 3 Total 0 Total 0 Total Fatal 0 Fatal 0 Fatal 0 Fatal 0 Fatal 0 A-Injury 0 B-Injury 0 A-Injury 0 B-Injury 0 A-Injury 0 B-Injury 0 0 Total 0 Total 0 Total 1 Fatal 0 Fatal 0 Fatal 0 A-Injury A-Injury

The following crashes could not be plotted on the diagram

	FO	OT	PD	PDC	00	Animal	ONC	TOTAL
Total	1	0	0	0	2	0	0	3
Fatal	0	0	0	0	0	0	0	0
A-Injury	0	0	0	0	0	0	0	0
B-Injury	0	0	0	0	0	0	0	0

PG, FC & ADT Minor Stop - 3 Leg

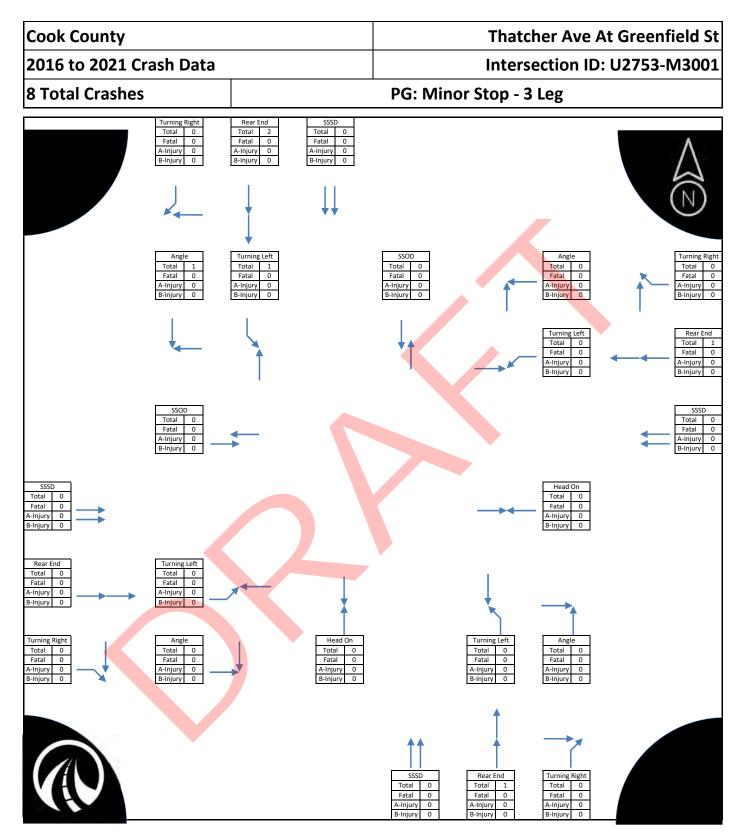
| Main ID: U2753-M3001 | Sub ID: ALL | | Study Period Begin Year: | 2016 | to | 2021 |

County: Cook County

Analysis Period 6 years

								6:4.	eswipe	. ^		6:4	eswipe	C	_			_			_			_																						
		Rear	End			Angle	,	Side	Dire		osite		Directi			Turning	Left	1	urning	Right		Fixed Ol	ject	(Overturn	ied		Head O	n	P	Pedestri	an	0	ther Ob	ject		Anim	al	1	Pedalcy	clist	Othe	r Non-C	Collision	TO	DTAL
YEAR	Crash Count	Injur Type	y In	jury Count C	Crash Count	Injury Type	Injury Count	Crasi	h Inju	ıry li oe C	njury Count	Crash Count	Injury Type	Injury Coun	Crasi Coun	Injury Type	Injur	y Crasi nt Coun	Injury Type	Injury	Crasi Cour	n Injury t Type	Injury Coun	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Count
2016			and		entranscount of the second		and a second a second and a second a second and a second a second and a second and a second and a second and														1											ALGORIGAN CONTRACTOR C													1	
2017	1	1-0	1	- CI	1																																								2	1 - CI
2018	1	1-0	1	- CI	-										1																														2	1 - CI
2019																					1	- K	1 - KI										P												1	1 - KI
2020			-																																										0	
2021	2																																												2	
TOTAL	4	2-0	2	- CI	1			0				0			1			0			2	1-K	1 - K	0			0			0			0			0			0			0			8	1 - KI
%		50.0	_			12.5%			0.	0%			0.0%			12.5	%		0.09	6		25.0	6		0.0%			0.0%		ì	0.0%	$\overline{}$		0.0%			0.0%			0.0%			0.0%	,		

			INJURY TYPE					CRASH CO	ONDITIONS			TOTAL
YEAR	K	A	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016					1	0	0%	0	0%	0	0%	1
2017				1	1	1	50%	0	0%	0	0%	2
2018				1	1	0	0%	1	50%	0	0%	2
2019	1				0	0	0%	0	0%	0	0%	1
2020					0	0	-	0	-	0	-	0
2021					2	0	0%	0	0%	0	0%	2
TOTAL	1	0	0	2	5	1	12.5%	1	12.5%	0	0.0%	8



The following crashes could not be plotted on the diagram

	FO	OT	PD	PDC	00	Animal	ONC	TOTAL
Total	2	0	0	0	0	0	0	2
Fatal	1	0	0	0	0	0	0	1
A-Injury	0	0	0	0	0	0	0	0
B-Injury	0	0	0	0	0	0	0	0

PG, FC & ADT Minor Stop - 3 Leg

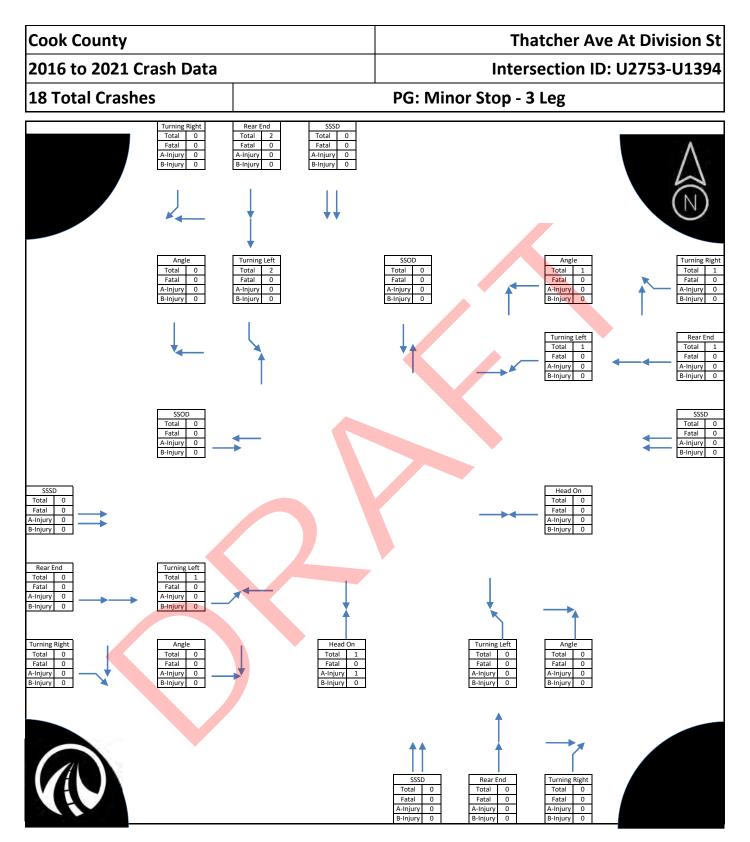
| Main ID: U2753-U1394 |
| Sub ID: ALL |
| Study Period Begin Year: | 2016 | to | 2021 |

County: Cook County

Analysis Period 6 years

		Rea	r End			Angl	e	Sid		e Oppo	osite		swipe Direction			Turning	Left		Turn	ning Right		Fixed	Objec	t	Ov	erturn	ed		Head C	n		Pedestri	an		Other O	bject		Anin	ıal		Pedalcy	list	Other	Non-C	ollision	T	OTAL
YEAR	Crasi	h Inju	ury pe (Injury Count	Crash Count	Injury Type	Injury	Cras Cour	h Inju	ury In	njury Count C	Crash Count	Injury Type	Injury Count	Crash	Injury	/ Inj	jury Cr ount Co	rash I ount	njury Inju Type Co	ury C	rash Inju Count Typ	iry Ir	njury C	rash	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Cras Cour	h Injury nt Type	Injury Coun	Crasi Coun	n Injury it Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Count
2016		nanananananananananananananananananana					Accessoration								1	1-8	2	- BI				2			***************************************			1	1-A	2 - AI																4	2 - Al 2 - Bl
2017															1																			1									1			3	
2018	2	1-	.с	2 - CI	1										1				1			1																								6	2 - CI
2019	1																								STATE OF THE PARTY									1												2	
2020																						1																								1	
2021															1																			1												2	
TOTAL	3	1-	·c	2 - CI	1			0				0			4	1 - E	2 -	- BI	1			4			0			1	1-A	2 - AI	0			3			0			0			1			18	2 - AI 2 - BI 2 - CI
%		16	5.7%			5.6%	6		0.	.0%			0.0%			22.2	%			5.6%		22.	.2%			0.0%			5.6%			0.0%		K	16.7	%		0.09	6		0.0%			5.6%			

			INJURY TYPE					CRASH CO	ONDITIONS			TOTAL
YEAR	K	A	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016		1	1		2	3	75%	0	0%	1	25%	4
2017					3	1	33%	0	0%	2	67%	3
2018				1	5	1	17%	0	0%	3	50%	6
2019					2	1	50%	0	0%	0	0%	2
2020					1	0	0%	0	0%	0	0%	1
2021					2	1	50%	0	0%	0	0%	2
TOTAL	0	1	1	1	15	7	38.9%	0	0.0%	6	33.3%	18



The following crashes could not be plotted on the diagram

	FO	OT	PD	PDC	00	Animal	ONC	TOTAL
Total	4	0	0	0	3	0	1	8
Fatal	0	0	0	0	0	0	0	0
A-Injury	0	0	0	0	0	0	0	0
B-Injury	0	0	0	0	0	0	0	0

PG, FC & ADT Minor Stop - 3 Leg

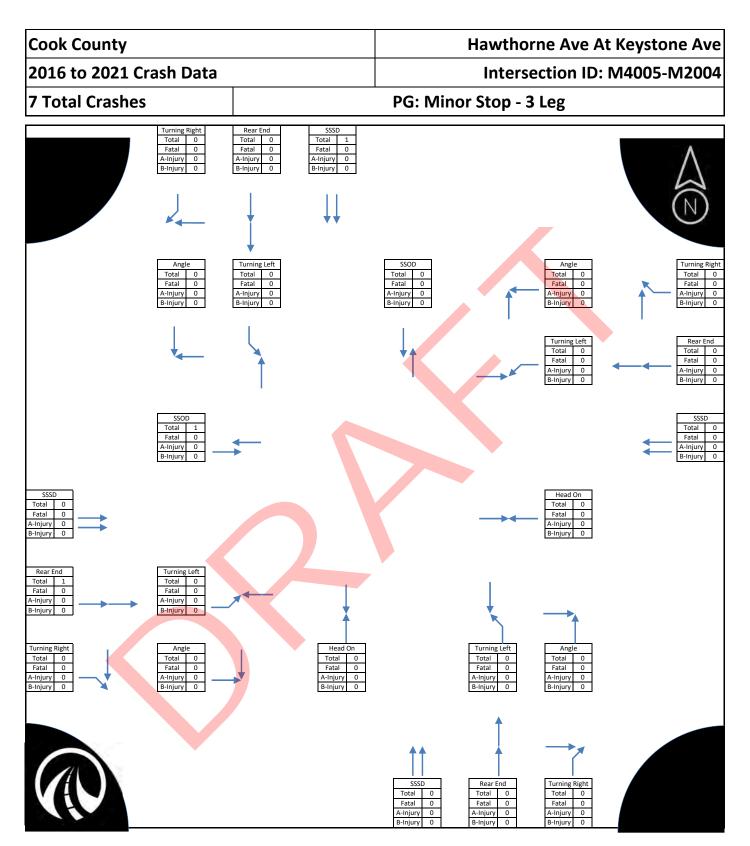
| Main ID: | M4005-M2004 | Sub ID: | ALL | |
| Study Period Begin Year: | 2016 | to | 2021 |

County: Cook County

Analysis Period 6 years

		Rea	r End			Ang	e	Sid		ipe Op			eswipe			Turning	Left	1	Turning	Right		Fixed C	biect		Overtu	rned		Head (On	Р	edestri	ian	0	ther Ob	iect		Anim	al	F	Pedalcy	clist	Other	r Non-Co	Ilision	TO	TAL
YEAR	Crash	n Inji	ury pe	Injury Count	Crash Count	Injury Type	Injury	Crast Cou		rection njury Type	Injury (Injury Type		Crash	Injury	Inju	ry Crasi	h Injury	Injury	Crast Coun	h Injur	/ Injui	y Cras	h Injur	/ Injury Coun	Crash t Coun	Injury t Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury
2016																					1	- K	1-1	a									1												2	1 - KI
2017								1																	A PROPERTY OF THE PROPERTY OF								1												2	
2018	1																				1																								2	
2019																									on a constant of the constant								P												0	
2020																									and the second s																				0	
2021												1													- Constitution of the Cons																				1	
TOTAL	1				0			1				1			0			0			2	1-1	(1-)	0	- Natural and		0			0			2			0			0			0			7	1 - KI
%		14	4.3%			0.09	5		1	14.3%			14.3%	5		0.0	%		0.09	6		28.6	1%		0.0	%		0.0%	,		0.0%			28.6%	,		0.0%			0.0%			0.0%			

			INJURY TYPE					CRASH CO	ONDITIONS			TOTAL
YEAR	K	A	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	IOIAL
2016	1				1	0	0%	0	0%	1	50%	2
2017					2	1	50%	0	0%	1	50%	2
2018					2	1	50%	1	50%	0	0%	2
2019					0	0	-	0	-	0		0
2020					0	0	-	0	-	0	-	0
2021					1	0	0%	0	0%	1	100%	1
TOTAL	1	0	0	0	6	2	28.6%	1	14.3%	3	42.9%	7



The following crashes could not be plotted on the diagram

	FO	OT	PD	PDC	00	Animal	ONC	TOTAL
Total	2	0	0	0	2	0	0	4
Fatal	1	0	0	0	0	0	0	1
A-Injury	0	0	0	0	0	0	0	0
B-Injury	0	0	0	0	0	0	0	0

ID Name U1411-M2005

LOCATION INFO: Washington Blvd At Gale Ave

PG, FC & ADT Minor Stop - 4 Leg

| Main ID: U1411-M2005 | Sub ID: ALL | | Study Period Begin Year: | 2016 | to | 2021 |

County: Cook County

Analysis Period 6 years

	_			_					.i 0.	pposite	61.	leswipe		_						_						_			_																
		Rear End			Angle		•		Direction			Directi			Turning	Left	1	Turning	Right		Fixed O	bject	(Overturn	ed		Head O	n	P	Pedestrian		0	ther Ob	ject		Anima	al	-	Pedalcy	clist	Other	Non-C	ollision	TO	DTAL
YEAR	Crash Count	Injury Type	Injur	Cras t Cour	h Injur	y Inju	iry Ci	rash ount	Injury Type	Injury Count	Crash Count	Injury Type	Injury Coun	Crast t Coun	Injury Type	Injur Cour	ry Crasi nt Cour	h Injury it Type	/ Injury Coun	Cras t Cou	h Injury nt Type	Injun Coun	Crash t Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Count
2016				2		3 1-																																1	1-C	1 - CI				3	1 - BI 3 - CI
2017				2																									000000000000000000000000000000000000000															2	
2018	1	1 - B	1 - B	3	1-1	3 1-																													1									5	2 - BI 1 - CI
2019				1		-																																						1	
2020				1																																								1	
2021				2																																								2	
TOTAL	1	1-B	1 - B	11	2-1	3 2-	BI	0			0			0			0			0			0			0			0			0			1			1	1-C	1 - CI	0			14	3 - BI 4 - CI
%		7.1%			78.	6%			0.0%			0.0%	6		0.09	%		0.0	%		0.09	6		0.0%			0.0%			0.0%			0.0%			7.1%			7.1%			0.0%			

			INJURY TYPE				CRASH CONDITIONS											
YEAR	K	Α	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL						
2016			1	2	0	1	33%	0	0%	1	33%	3						
2017					2	0	0%	0	0%	0	0%	2						
2018			2	1	2	1	20%	0	0%	1	20%	5						
2019					1	1	100%	0	0%	0	0%	1						
2020					1	0	0%	0	0%	0	0%	1						
2021					2	0	0%	0	0%	0	0%	2						
TOTAL	0	0	3	3	8	3	21.4%	0	0.0%	2	14.3%	14						

Cook County Washington Blvd At Gale Ave Intersection ID: U1411-M2005 2016 to 2021 Crash Data **14 Total Crashes** PG: Minor Stop - 4 Leg Turning Right Total 0 Rear End Total 0 Total 0 0 0 Fatal 0 A-Injury 0 B-Injury 0 Fatal 0 A-Injury 0 Fatal A-Injury Total Total Total 0 Total Rear End Fatal 0 Fatal 0 A-Injury 0 B-Injury 0 A-Injury 0 Fatal 0 Fatal 0 A-Injury 0 A-Injury 0 SSSD Total 0 Total 0 Fatal 0 Fatal 0 A-Injury 0 Turning Left Rear End Total 0 Fatal 0 Total 0 Fatal 0 A-Injury 0 A-Injury 0 Turning Right Angle Head On Turning Left Angle Total 0 Total 5 Fatal 0 Total 0 Total 0 Total 0 Fatal 0 Fatal 0 Fatal 0 Fatal 0 A-Injury 0 B-Injury 0 A-Injury 0 B-Injury 0 A-Injury 0 B-Injury 0 0 Total 0 Total 0 Total 0 Fatal 0 Fatal 0 Fatal 0 A-Injury A-Injury

The following crashes could not be plotted on the diagram

	FO	OT	PD	PDC	00	Animal	ONC	TOTAL
Total	0	0	0	1	0	1	0	2
Fatal	0	0	0	0	0	0	0	0
A-Injury	0	0	0	0	0	0	0	0
B-Injury	0	0	0	0	0	0	0	0

 LOCATION INFO:
 Madison St At Lattrop Ave

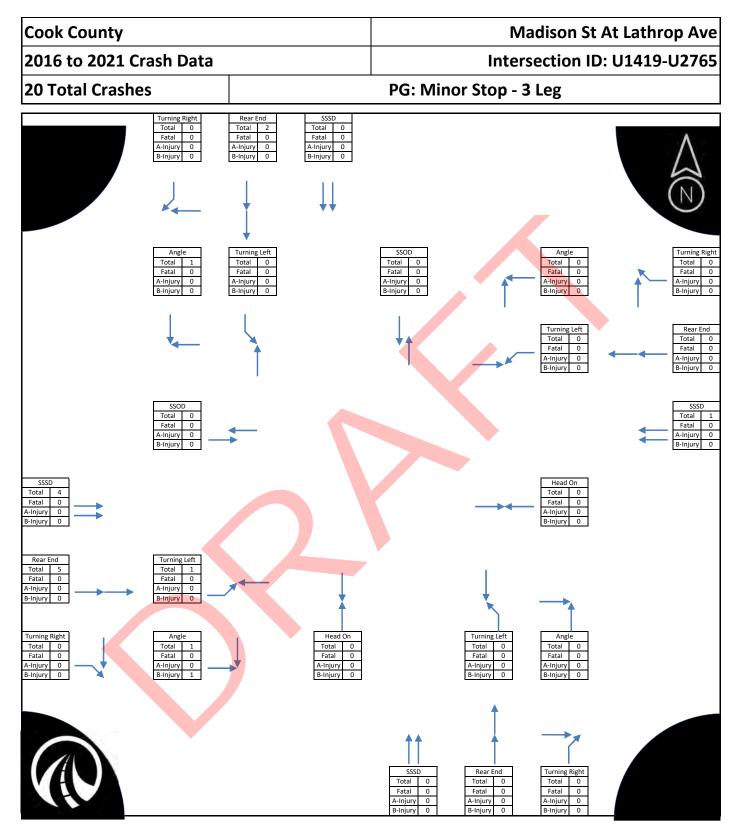
 PG, FC & ADT
 Minor Stop - 3 Leg

County: Cook County

Analysis Period 6 years

	_							6:4.		е Орр		e:a-	swipe S	·																							_			_						_	
		Rea	r End			Angle	,	Side		ection	osite		Swipe a Directio		1	Turning	Left		Turning	Right		Fixe	d Obje	ct	0	verturn	ed		Head C	n	P	Pedestri	an	0	ther Ob	ject		Anim	al	1	Pedalcy	clist	Othe	r Non-C	ollision	то	TAL
YEAR	Crash Count	n Inj	ury pe	Injury Count	Crash Count	Injury Type	Injury Count	Crasi	h Inji	jury I	njury Cr Count Cr	ash ount	Injury Type	Injury Count	Crash Count	Injury Type	Inju Cou	ıry Cras	sh Injui	y Injur	ry Cra	ash In ount T	jury ype	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Count
2016		TOTAL STATE	Antonomonomon		1	1-B	1 - BI					2					-																	1												4	1 - BI
2017	1																								2000																					1	
2018	2											1									:	2 1	- B	1 - BI																						5	1 - BI
2019	3											1													100000000000000000000000000000000000000									P												4	
2020																																		1												1	
2021	1				1	1-C	1 - CI					1			1																			1												5	1 - CI
TOTAL	7				2	1-B 1-C	1 - BI 1 - CI					5			1			0				2 1	- В	1 - BI	0			0			0			3			0			0			0			20	2 - BI 1 - CI
%		35	5.0%			10.0%			0.	.0%			25.0%			5.0%	6		0.0	%		1	0.0%			0.0%			0.0%			0.0%			15.0%	,		0.0%			0.0%			0.0%			

			INJURY TYPE					CRASH CO	ONDITIONS			TOTAL
YEAR	K	Α	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016			1		3	0	0%	0	0%	1	25%	4
2017					1	0	0%	0	0%	0	0%	1
2018			1		4	0	0%	1	20%	2	40%	5
2019					4	1	25%	0	0%	2	50%	4
2020					1	0	0%	0	0%	0	0%	1
2021				1	4	2	40%	0	0%	2	40%	5
TOTAL	0	0	2	1	17	3	15.0%	1	5.0%	7	35.0%	20



The following crashes could not be plotted on the diagram

	FO	OT	PD	PDC	00	Animal	ONC	TOTAL
Total	2	0	0	0	3	0	0	5
Fatal	0	0	0	0	0	0	0	0
A-Injury	0	0	0	0	0	0	0	0
B-Injury	1	0	0	0	0	0	0	1

PG, FC & ADT Minor Stop - 4 Leg

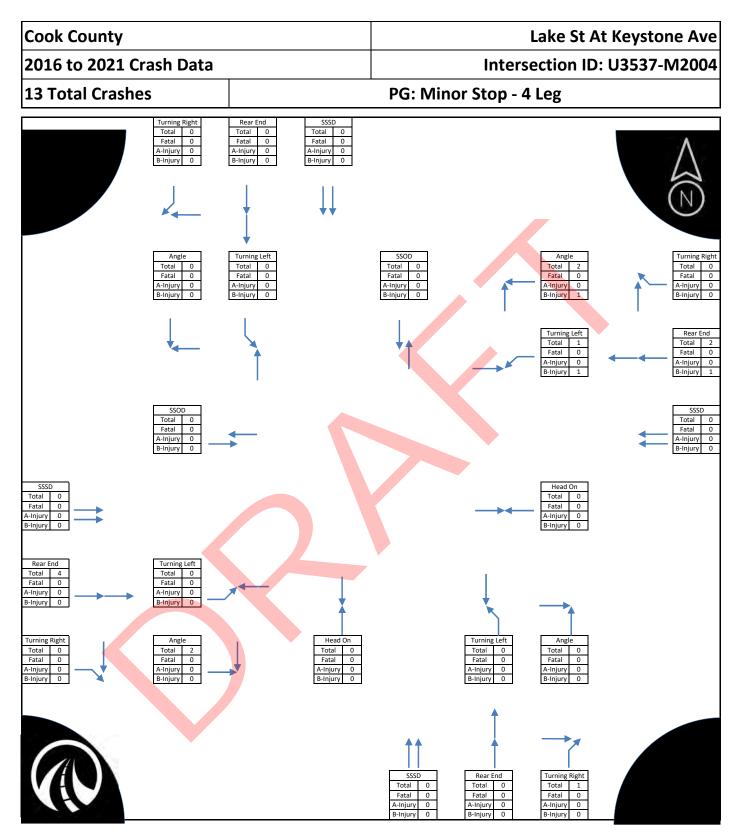
| Main ID: U3537-M2004 | Sub ID: | ALL | Study Period Begin Year: | 2016 | to | 2021 |

County: Cook County

Analysis Period 6 years

	_							6:4		ре Орр		614-	swipe :		_																															_	
		Rea	r End	l		Angl	е	Siu		rection	osite		Directio			Turnin	g Left	t	Tun	ning R	ight	F	ixed Ol	ject		Overturi	ed		Head C	n	P	Pedestri	an	0	ther Ob	ject		Anima	al	F	Pedalcy	list	Other	r Non-C	ollision	TO	TAL
YEAR	Crash Count		ury pe	Injury Count	Crash Count	Injury Type	Injury Count	Cras t Cou	sh In int T	ijury ype (Injury Count C	rash ount	Injury Type	Injury Count	Crash Coun	h Injui	ry Ir e C	njury C count C	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Coun	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Count
2016	1														1	1-1	В 2	! - BI																												2	2 - BI
2017			- Contractor Contracto																															1												1	
2018					3	1 - B	1 - BI	ı																																						3	1 - BI
2019	2	1	- C	2 - CI	1																													P												3	2 - CI
2020	2	3 1	- B - C	2 - BI 1 - CI																																										2	2 - BI 1 - CI
2021	1																		1																											2	
TOTAL	6	- 11	- B	2 - BI 3 - CI	4	1-B	1 - BI	0				0			1	1-1	В 2	! - BI	1			0			0	The second secon		0			0			1			0			0			0			13	5 - BI 3 - CI
%		46	5.2%			30.89	6		(0.0%			0.0%			7.7	7%			7.7%			0.0%			0.0%			0.0%			0.0%			7.7%			0.0%			0.0%			0.0%			

			INJURY TYPE					CRASH C	ONDITIONS			TOTAL
YEAR	K	Α	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016			1		1	1	50%	0	0%	0	0%	2
2017					1	0	0%	0	0%	1	100%	1
2018			1		2	1	33%	1	33%	2	67%	3
2019				1	2	0	0%	1	33%	2	67%	3
2020			1	1	0	0	0%	0	0%	0	0%	2
2021					2	0	0%	0	0%	1	50%	2
TOTAL	0	0	3	2	8	2	15.4%	2	15.4%	6	46.2%	13



The following crashes could not be plotted on the diagram

	FO	OT	PD	PDC	00	Animal	ONC	TOTAL
Total	0	0	0	0	1	0	0	1
Fatal	0	0	0	0	0	0	0	0
A-Injury	0	0	0	0	0	0	0	0
B-Injury	0	0	0	0	0	0	0	0

ID Name U1386-M1000

LOCATION INFO: Chicago Ave At Jackson Ave

PG, FC & ADT Minor Stop - 4 Leg

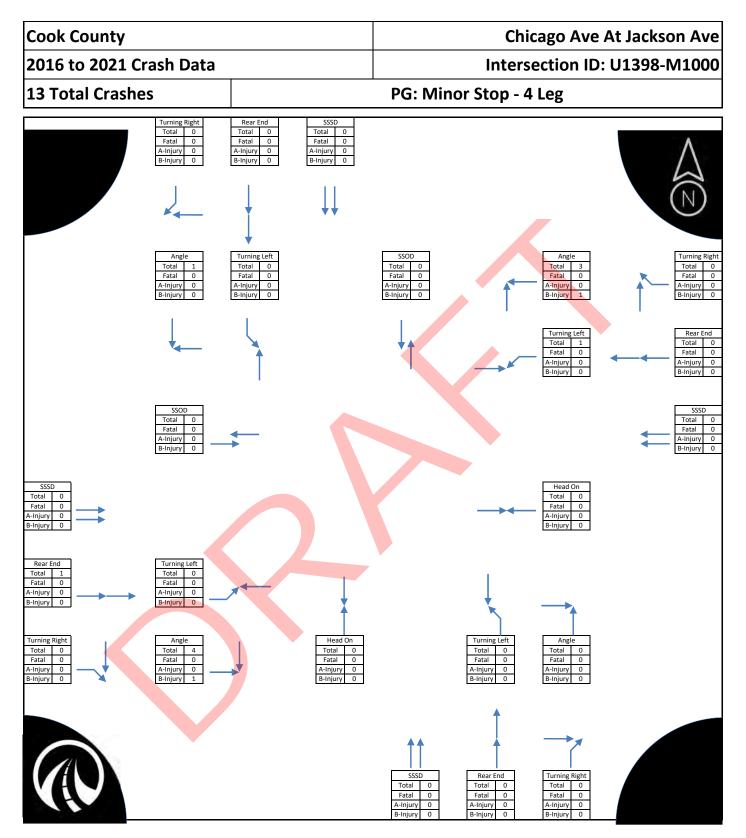
| Main ID: U1398-M1000 | Sub ID: ALL | Study Period Begin Year: | 2016 | to | 2021 |

County: Cook County

Analysis Period 6 years

		Rear	End			Angle		Side	swipe Direc	Oppos tion	ite :		vipe Sa ection		Τι	ırning	Left	т	urning	Right		Fixed	Object	t	Ov	erturne	d		Head C	n		Pedestr	ian	(Other O	oject		Anim	al	-	Pedalcy	clist	Othe	r Non-C	ollision	т	OTAL
YEAR	Crash Count	Injur Type	y Inje Co	ury Cr unt Co	rash ount	Injury Type	Injury Count	Crash Coun	n Injur	y Inju e Cou	iry Cra int Co	ish In unt T	jury I ype C	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury	y Cra nt Cou	ish Inju unt Typ	ry In ie Cr	njury Cr ount C	rash I	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Coun	Injury t Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury t Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Count
2016																																	nananananananan													0	
2017	1				2	1-C	1-CI																																							3	1 - CI
2018					1		1-01																																							1	1.0
2019					3	2 - B	2 - BI														1	ı												P												4	2 - BI
2020					1																				200000000000000000000000000000000000000						1	1-B	1 - BI													2	1 - BI
2021					1	1-C	1 - CI								1																			1												3	1-CI
TOTAL	1				8	2 - B 2 - C	2 - BI 2 - CI	0			(1			0			1				0			0			1	1-B	1 - BI	1			0			0			0			13	3 - BI 2 - CI
%		7.7	%			61.5%			0.0	1%		(0.0%			7.7%			0.0%	6		7.	7%			0.0%			0.0%			7.7%			7.79	,		0.0%			0.0%	,		0.0%	,		

			INJURY TYPE					CRASH C	ONDITIONS			TOTAL
YEAR	K	Α	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016					0	0	-	0	-	0	-	0
2017				1	2	0	0%	0	0%	1	33%	3
2018					1	0	0%	0	0%	1	100%	1
2019			2		2	1	25%	2	50%	0	0%	4
2020			1		1	0	0%	0	0%	0	0%	2
2021				1	2	2	67%	0	0%	2	67%	3
TOTAL	0	0	3	2	8	3	23.1%	2	15.4%	4	30.8%	13



The following crashes could not be plotted on the diagram

	FO	OT	PD	PDC	00	Animal	ONC	TOTAL
Total	1	0	1	0	1	0	0	3
Fatal	0	0	0	0	0	0	0	0
A-Injury	0	0	0	0	0	0	0	0
B-Injury	0	0	1	0	0	0	0	1





Warrants

MULTI-WAY STOP WARRANT

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT #1

(NO)

SRA:

INTERSECTION: William St & Chicago Ave

SPEED LIMIT OF MAJOR ROUTE: 25 mph

NUMBER OF LANES ON MAJOR APPROACH: 1

MUNICPALITY / TOWNSHIP: River Forest

COUNTY: Cook

PROPOSED 3-WAY OR 4-WAY: 4-WAY

NUMBER OF LANES ON MINOR APPROACH: 1

	TRAF	FIC VOLUMES		CHECK ANY HO	UF	RS WHICH MEET
				THE FOLLOWING	G F	REQUIREMENTS:
	MAJOR STREET	MINOR	STREET			COMBINATION
HOUR	VEHICLES ENTERING	VEHICLES ENTERING	PEDS OR BIKES	HOURS		OF
BEGIN	(BOTH APPROACHES)	(BOTH APPROACHES)	(BOTH APPROACHES)	MET		WARRANTS
			N/C = NOT COUNTED	100%		80%
6:00			N/C			
7:00	718	67	N/C			
8:00	750	97	N/C			
9:00	546	78	N/C			
10:00	558	70	N/C			
11:00	555	72	N/C			
12:00	650	75	N/C			
13:00	677	66	N/C			
14:00	755	75	N/C			
15:00	907	111	N/C		1	
16:00	908	116	N/C			
17:00	991	111	N/C			
18:00	843	73	N/C			
19:00			N/C			
20:00			N/C			
21:00			N/C			

Hours Met: 0 hours 0 hours

MAJOR ENTERING: 300 240

VOLUME

REQUIREMENTS: MINOR ENTERING: 200 160

INCLUDING ANY PEDS

ACCIDENT DATA ACCIDENT EXPERIENCE 2016 2017 2018 2019 2020 TOTAL NUMBER OF ACCIDENTS 6 3 3 9 NUMBER CORRECTABLE ACCIDENTS 3 (INCLUDING LEFT- AND RIGHT-TURN AS WELL AS RIGHT-ANGLE COLLISIONS) **ACCIDENT WARRANT** 5 Correctable Accidents Within A 12-month Period? (YES) (No Volume Requirement)

VOLUME WARRANT

Are Volume Requirements Met For 8 Hours?

YES 0 hours NO



Review Information

Counts Used: IDOT

Count Date(s): 05/31/23 (AM) + 05/31/23 (PM)

Date Reviewed: August 1, 2023

Reviewed By: KRS

COMBINATION OF WARRANTS (REDUCED TO 80%)

4 Correctable Accidents Within A 12-month Period?

YES

NO

Are Volume Requirements Met For 8 Hours?

YES 0 hours NO

ARE BOTH CRITERIA MET?

YES



IS A MULTI-WAY STOP WARRANTED?

YES



Comments

DISTRICT #1

SIGNAL WARRANT REVIEW SHEET

ILLINOIS DEPARTMENT OF TRANSPORTATION

		SRA:		
			Yes	No
Intersection: Lathrop Ave & Division St	County:	Cook		
Municipality: River Forest	_			
Speed Limit of Major Route 25 mph	Isolated Community with Population < 10 000	N		

Number of Lanes on Minor approach

		Adj. Minor	CHEC	CK ANY HOURS V	VHICH MEET THE F	OLLOWING WARF	RANTS
	Major Street Volume (both	Street Volume	WARF	RANT 1	WARRANT	7: 8 hrs of one of	of the Following:
HOUR	approaches)	(higher volume approach)	Α	В	WARRA	NT 1 A/B:	8hrs of BOTH:
BEGIN		арргоаст)	100%	100%	80% of A	80% of B	80% of Warr #4
6:00	154	53					
7:00	368	188					
8:00	592	220	Х		Х		
9:00	403	133			Х		
10:00	262	118					
11:00	368	150					
12:00	368	173					
13:00	332	164					
14:00	458	191			Х		
15:00	653	253	Х		X	Х	
16:00	679	265	Х		X	X	
17:00	666	242	Х		X	X	
18:00	439	184			X		
19:00	215	113					
20:00	187	85					
21:00	138	49					

Hours Met: 4 hours 0 hours 7 hours 3 hours 0 hours 600 Volume Requirements: 500 750 400 MAJOR: 150 75 120 60 MINOR:

WARRANT 1 No Yes Warrant 1 is met if any of the following Conditions are met: Condition A No MINIMUM VEHICULAR VOLUME Condition B 0 hours No INTERRUPTION OF CONTINUOUS TRAFFIC Condition A/B 3 hours COMBINATION OF WARRANTS **WARRANT 2** Yes No **WARRANT 3** No Yes **WARRANT 4** No Yes Yes No WARRANT 6 Yes No

Review Information

Counts Used : IDOT

Count Date(s): 12/06/22 (AM) + 12/06/22 (PM)

Date Reviewed : August 1, 2023 Reviewed By : KRS

Number of Lanes on Major approach

Traffic Signal Approved:

Comments

	2016	2017	2018	2019	2020
TOTAL NUMBER OF ACCIDENTS:	7	9	6	3	3
NUMBER CORRECTABLE ACCIDENTS:	3	5	5	3	2
TRIED LESS RESTRICTIVE METHODS?					
ARE VOLUME REQUIREMENTS MET?					



WARRANT 7

Yes

Yes



No

WARRANT 9	
Intersection Near a Grade Cross	ing

Yes



STOP OR YIELD CONTROLLED LEG WITH GRADE CROSSING:		NORTH	
D (clear storage distance) =			
	#	%	Adj. Factor
RAIL TRAFFIC PER DAY =		-	1.00
HIGH OCCUPANCY BUSSES PER HOUR =		0%	1.00
TRUCKS PER HOUR =		0.0%	0.50
OVERALL ADJUSTMENT FACTOR =		0.50	





APPENDIX E: TWO-BLOCK SPAN STUDY

- 01. Speed Data
- 02. Two-Block Crash Data
- 03. All-Way Stop Warrant
- 04. Traffic Calming Toolbox Scoring Sheets





Speed Data

Sequential 85th Percentile Report

Device ID: 405193 Begin: 06/06/2023 11:00 AM End: 06/07/2023 11:00 AM

Street: Ashland Ave Lane: Misc see chat Hours: 24.00
State: II Operator: SD Period (min): 15
City: River Forest Speed Limit: 25 Raw Count: 699

County: United States AADT Factor: 1 ADT Count: 699

Date / Hour	NB Ashland 85th	SB Ashland 85th	Avg Spd	Max Spd	NB 85th SB	85th
Tuesday, June 6, 2023 12:00PM	22	31	26.50	31.00	22.2	24.5
Tuesday, June 6, 2023 1:00PM	26	28	27.00	28.00		
Tuesday, June 6, 2023 2:00PM	20	24	22.00	24.00		
Tuesday, June 6, 2023 3:00PM	20	32	26.00	32.00		
Tuesday, June 6, 2023 4:00PM	26	24	25.00	26.00		
Tuesday, June 6, 2023 5:00PM	27	23	25.00	27.00		
Tuesday, June 6, 2023 6:00PM	22	23	22.50	23.00		
Tuesday, June 6, 2023 7:00PM	21	28	24.50	28.00		
Tuesday, June 6, 2023 8:00PM	21	22	21.50	22.00		
Tuesday, June 6, 2023 9:00PM	22	24	23.00	24.00		
Tuesday, June 6, 2023 10:00PM	19	29	24.00	29.00		
Tuesday, June 6, 2023 11:00PM	19	22	20.50	22.00		
Wednesday, June 7, 2023 12:00AM	19	18	18.50	19.00		
Wednesday, June 7, 2023 1:00AM	19	23	21.00	23.00		
Wednesday, June 7, 2023 2:00AM	18	0	9.00	18.00		
Wednesday, June 7, 2023 3:00AM	24	23	23.50	24.00		
Wednesday, June 7, 2023 4:00AM	0	0	0.00	0.00		
Wednesday, June 7, 2023 5:00AM	19	0	9.50	19.00		
Wednesday, June 7, 2023 6:00AM	19	26	22.50	26.00		
Wednesday, June 7, 2023 7:00AM	25	24	24.50	25.00		
Wednesday, June 7, 2023 8:00AM	19	23	21.00	23.00		
Wednesday, June 7, 2023 9:00AM	21	24	22.50	24.00		
Wednesday, June 7, 2023 10:00AM	20	25	22.50	25.00		
Wednesday, June 7, 2023 11:00AM	22	21	21.50	22.00		





Two-Block Crash Data



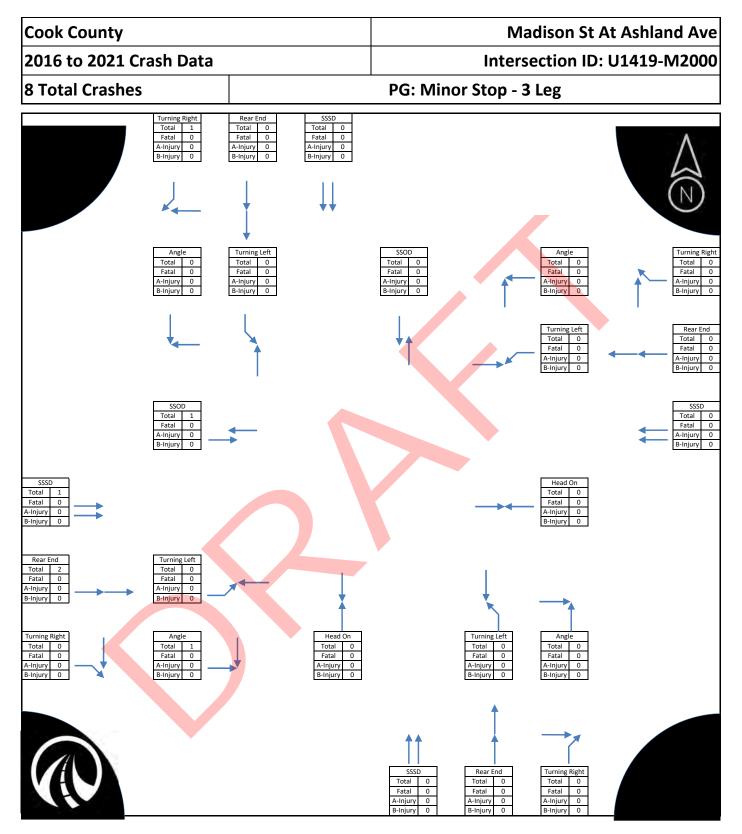
ID Name LOCATION INFO:

PG, FC & ADT County: Cook County | Main ID: M2000_A | Sub ID: ALL | Study Period Begin Year: | 2016 | to | 2021

Analysis Period 6 years

ounty:				OOK COI	unty														_					-	,	Period	- ,	-																			
		Rear	r End			Ang	le	Sic		ipe Opp rection	posite	Side	eswipe Directi	Same on		Turning	Left		Turnin	g Right	1	Fix	ed Obj	ect	C	verturr	ed		Head C)n	F	Pedestri	ian	(Other O	bject		Anim	ıal		Pedalcy	clist	Other	Non-Col	lision	то	TAL
YEAR	Crash Count		ıry I	njury Count	Crash Count	Injury Type	Injur	y Cra	sh li unt 1	njury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crasi Coun	n Injury t Type	/ Inji	ury Cra	ish Inju	iry Inji	ury C	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Coun	Crash Coun	Injury Type	Injur Cour	y Crasi nt Coun	h Injury it Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injur Cour									
2016		***************************************	-														Name and Associated as a second																													0	
2017																	-																													0	
2018												1					-																													1	
2019																	-																	P												0	
2020																	-																													0	
2021																	-																													0	
TOTAL	0				0			0)			1			0		-	0	,			0			0			0			0			0			0			0			0			1	
%		0.0	0%			0.09	%			0.0%			100.0	%		0.0	%		0.	0%			0.0%			0.0%			0.0%			0.0%			0.09			0.09	<u>,</u>		0.09			0.0%			

			INJURY TYPE					CRASH CO	ONDITIONS			TOTAL
YEAR	K	Α	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016					0	0	-	0	-	0	-	0
2017					0	0	-	0	-	0	-	0
2018					1	0	0%	0	0%	0	0%	1
2019					0	0	-	0	-	0		0
2020					0	0	-	0	-	0	-	0
2021					0	0	-	0		0	,	0
TOTAL	0	0	0	0	1	0	0.0%	0	0.0%	0	0.0%	1



The following crashes could not be plotted on the diagram

	FO	OT	PD	PDC	00	Animal	ONC	TOTAL
Total	0	0	0	0	2	0	0	2
Fatal	0	0	0	0	0	0	0	0
A-Injury	0	0	0	0	0	0	0	0
B-Injury	0	0	0	0	0	0	0	0

PG, FC & ADT Minor Stop - 3 Leg

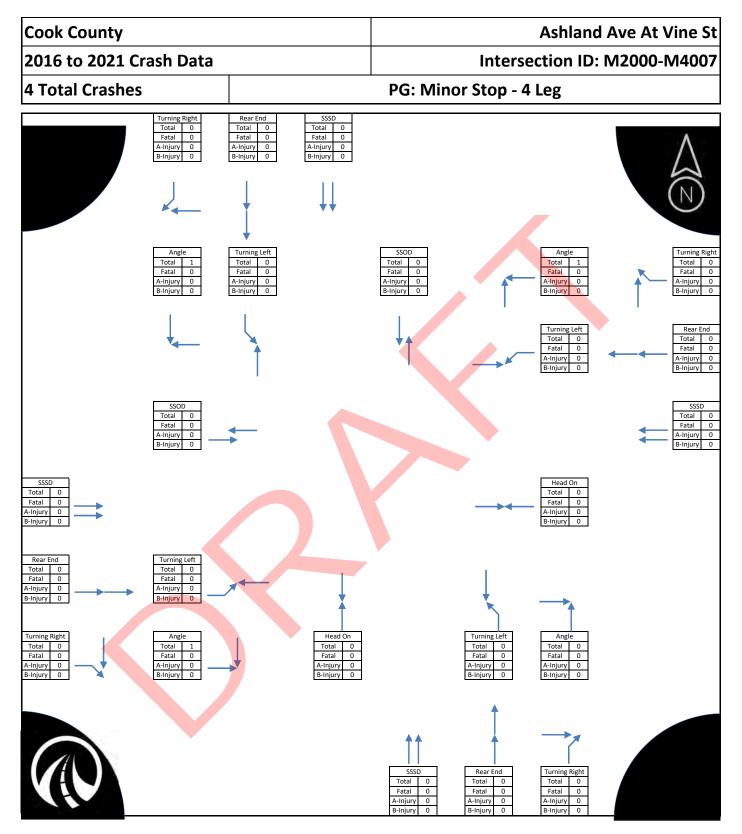
| Main ID: U1419-M2000 | Sub ID: ALL | | Study Period Begin Year: | 2016 | to | 2021 |

County: Cook County

Analysis Period 6 years

		Rear	End			Angle	•	Sid		e Opp	osite		eswipe Directi			Turning	g Left		Turnin	ıg Righ	nt	Fix	ed Obj	ect	0	verturn	ed		Head C	n	F	Pedestri	ian	(Other Ol	ject		Anin	nal		Pedalc	yclist	Oth	er Non-	Collision	Т	OTAL
YEAR	Crash Count	Injur Type	ry II	njury Count	Crash Count	Injury Type	Injury	Cras			Injury Count				Cras	h Injur	y Inju	ury Cran	sh Inju	ury In	njury ount	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash	Injury Type	Injury Coun	Crash t Coun	Injury Type	Injury	Cras	h Injur	Injur	ry Crash nt Coun	h Injur	/ Injury Count	Crash	Injur t Cour
2016								1																	100000000000000000000000000000000000000									1												2	
2017	1																-								100000000000000000000000000000000000000																					1	
2018												1																																		1	
2019					1	1-C	1-C											1																P							7					2	1-
2020																									0.00									1												1	
2021	1																																													1	
TOTAL	2				1	1-C	1-0	1				1			0			1				0			0			0			0			2			0			0			0			8	1-
%		25.0	0%			12.5%			12	2.5%			12.59	6		0.0	%		12	.5%			0.0%			0.0%			0.0%	•		0.0%			25.09			0.09			0.0	4		0.0	%		

			INJURY TYPE					CRASH CO	ONDITIONS			TOTAL
YEAR	K	A	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016					2	0	0%	0	0%	1	50%	2
2017					1	0	0%	0	0%	0	0%	1
2018					1	0	0%	0	0%	0	0%	1
2019				1	1	1	50%	0	0%	1	50%	2
2020					1	0	0%	0	0%	0	0%	1
2021					1	0	0%	0	0%	1	100%	1
TOTAL	0	0	0	1	7	1	12.5%	0	0.0%	3	37.5%	8



The following crashes could not be plotted on the diagram

	FO	OT	PD	PDC	00	Animal	ONC	TOTAL
Total	0	0	0	0	1	0	0	1
Fatal	0	0	0	0	0	0	0	0
A-Injury	0	0	0	0	0	0	0	0
B-Injury	0	0	0	0	0	0	0	0

PG, FC & ADT Minor Stop - 4 Leg

| Main ID: | M2000-M4007 | Sub ID: | ALL | |
| Study Period Begin Year: | 2016 | to | 2021 |

County: Cook County An

Analysis Period 6 years

		Rear	End			Angle	,		eswipe Dire	Oppo ction	site S	ideswi Dire	ipe Sam ction	е	Turi	ning L	eft	Tu	rning R	ight	F	ixed O	bject		Overtur	ned		Head C)n	Р	edestri	an	О	ther Ob	ject		Anima	al		Pedalcyc	clist	Other	r Non-Co	ollision	то	TAL
YEAR	Crash Count	n Inju t Typ	ry In	jury Count C	Crash Count	Injury Type	Injury Count	Crash	h Inju	iry Ir ce C	ijury Cra ount Cou	sh Inju	ury Injo	ury Ci unt Ci	rash Ir ount 1	njury 'ype	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Count
2016					1	1-C	1 - CI																		THE STATE OF THE S							e de la constante de la consta													1	1 - CI
2017					1																				AND DESCRIPTION OF THE PERSON																				1	
2018																									A CONTRACTOR DE																				0	
2019																																	1												1	
2020																																													0	
2021					1																																								1	
TOTAL	0				3	1-C	1-CI	0			0				0			0			0			0			0			0	1		1			0			0			0			4	1 - CI
%		0.0	1%			75.0%	,		0.0	0%		0.	.0%			0.0%			0.0%			0.0%	,		0.0%			0.0%		<u> </u>	0.0%			25.0%	,		0.0%			0.0%			0.0%			

			INJURY TYPE					CRASH CO	ONDITIONS			TOTAL
YEAR	K	Α	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016				1	0	0	0%	0	0%	1	100%	1
2017					1	0	0%	0	0%	0	0%	1
2018					0	0	-	0		0	-	0
2019					1	0	0%	0	0%	1	100%	1
2020					0	0	-	0	-	0	-	0
2021					1	0	0%	1	100%	0	0%	1
TOTAL	0	0	0	1	3	0	0.0%	1	25.0%	2	50.0%	4

Washington Blvd At Ashland Ave Cook County Intersection ID: U1411-M2000 2016 to 2021 Crash Data PG: Minor Stop - 4 Leg 21 Total Crashes Turning Right Total 0 Total 0 Total 0 0 0 Fatal 0 A-Injury 0 B-Injury 0 Fatal 0 A-Injury 0 Fatal A-Injury Total Total 0 Total Rear End Fatal 0 Fatal 0 A-Injury 0 B-Injury 0 A-Injury 0 Fatal 0 Fatal 0 A-Injury 0 A-Injury 0 SSSD Total 0 Total 0 Fatal 0 Fatal 0 A-Injury 0 Turning Left Rear End Total 0 Fatal 0 0 A-Injury 0 Turning Right Angle Head On Turning Left Angle Total 0 Total 3 Total 0 Total 0 Total Fatal 0 Fatal 0 Fatal 0 Fatal 0 Fatal 0 A-Injury 0 B-Injury 0 A-Injury 0 B-Injury 0 A-Injury 0 B-Injury 0 0 Total 0 Total 0 Total 1 Fatal 0 Fatal 0 Fatal 0 A-Injury A-Injury

The following crashes could not be plotted on the diagram

	FO	OT	PD	PDC	00	Animal	ONC	TOTAL
Total	1	0	0	0	2	0	0	3
Fatal	0	0	0	0	0	0	0	0
A-Injury	0	0	0	0	0	0	0	0
B-Injury	0	0	0	0	0	0	0	0

ID Name U1411-M2000

LOCATION INFO: Washington Blvd At Ashland Ave

PG, FC & ADT Minor Stop - 4 Leg

| Main ID: U1411-M2000 | Sub ID: ALL | | Study Period Begin Year: | 2016 | to | 2021 |

County: Cook County

Analysis Period 6 years

		Rear	End			Angl	9	Sid	e Opp	osite		swipe		Turning	Left	1	urning	Right	F	Fixed Ol	oiect		Overtur	ned		Head C	n	Pe	destria	ın	0	ther Ob	iect		Anim	ıal		Pedalcy	clist	Othe	r Non-C	ollision	TO	OTAL
YEAR	Crash	Injur Type	y Ir	jury ount	Crash Count		Injury	Cras	jury li ype C	njury (Injury Type	_		_				_		-	Crash	Injury Type	Injury Count	Crash	Injury Type	Injury Count							Crash	Injury Type	Injury	_		Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Count
2016			-		2	1 - B	2 - BI																- Andrews and Andrews																				2	2 - BI
2017			A STATE OF THE STA		5	2 - B	4 - BI						1						1												1												8	4 - BI
2018	3	1-1	3 2	- BI	2	1-C	1 - Cl																					-			1												6	2 - BI 1 - CI
2019					1																							-			P												1	
2020	1				3																																						4	
2021																																											0	
TOTAL	4	1-1	3 2	-BI	13	3 - B 1 - C	6 - BI 1 - CI	0			0		1			0			1			0			0			0			2			0			0			0			21	8 - BI 1 - CI
%		19.0	0%			61.99	6		0.0%			0.0%		4.89	6		0.0	%		4.8%	,		0.0%	6		0.0%			0.0%			9.5%			0.0%	6		0.0%	,		0.0%			

			INJURY TYPE					CRASH CO	ONDITIONS			TOTAL
YEAR	K	A	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016			1		1	0	0%	1	50%	2	100%	2
2017			2		6	0	0%	0	0%	1	13%	8
2018			1	1	4	1	17%	2	33%	1	17%	6
2019					1	1	100%	0	0%	0	0%	1
2020					4	1	25%	0	0%	0	0%	4
2021					0	0	-	0		0	ï	0
TOTAL	0	0	4	1	16	3	14.3%	3	14.3%	4	19.0%	21





All-Way Stop Warrant



MULTI-WAY STOP WARRANT

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT #1

SRA:

(NO)

INTERSECTION: Ashland Ave & Vine St

MUNICPALITY / TOWNSHIP: River Forest

SPEED LIMIT OF MAJOR ROUTE: 25 mph

NUMBER OF LANES ON MAJOR APPROACH: 1

PROPOSED 3-WAY OR 4-WAY: 4-WAY NUMBER OF LANES ON MINOR APPROACH: 1

COUNTY: Cook

	TRAF	FIC VOLUMES			-	RS WHICH MEET
				THE FOLLOWIN	G F	REQUIREMENTS:
	MAJOR STREET	MINOR	STREET			COMBINATION
HOUR	VEHICLES ENTERING	VEHICLES ENTERING	PEDS OR BIKES	HOURS		OF
BEGIN	(BOTH APPROACHES)	(BOTH APPROACHES)	(BOTH APPROACHES)	MET		WARRANTS
			N/C = NOT COUNTED	100%		80%
6:00	33	11	N/C			
7:00	58	8	N/C			
8:00	78	26	N/C			
9:00	67	20	N/C			
10:00	89	35	N/C			
11:00	94	28	N/C			
12:00	48	17	N/C			
13:00	112	19	N/C			
14:00	89	20	N/C			
15:00	109	15	N/C		1	
16:00	134	21	N/C			
17:00	124	31	N/C			
18:00	123	31	N/C			
19:00	83	17	N/C			
20:00	51	14	N/C			
21:00	29	13	N/C			

Hours Met: 0 hours 0 hours

MAJOR ENTERING: 300 240

VOLUME

REQUIREMENTS: MINOR ENTERING: 200 160

INCLUDING ANY PEDS

Review Information

Counts Used: IDOT

Count Date(s): 06/07/23 (AM) + 06/07/23 (PM)

Date Reviewed: July 13, 2023

Reviewed By: KRS

Comments

•	

ACCIDENT DA	TA				
ACCIDENT EXPERIENCE	2016	2017	2018	2019	2020
TOTAL NUMBER OF ACCIDENTS	1	1	0	1	1
NUMBER CORRECTABLE ACCIDENTS	1	1	0	0	1
(INCLUDING LEFT- AND RIGH	T-TURN A	S WELL AS	RIGHT-ANG	GLE COLLI	SIONS)
ACCIDENT WA	RRA	NT			
5 Correctable Acci	dents	Within	A 12-m	onth P	eriod?
(No Volume Requirement	ent)		YES	(NO

VOLUME WARRANT

Are Volume Requirements Met For 8 Hours?

YES 0 hours NO



(NO)

COMBINATION OF WARRANTS (REDUCED TO 80%)

4 Correctable Accidents Within A 12-month Period?

Are Volume Requirements Met For 8 Hours?

YES 0 hours NO

ARE BOTH CRITERIA MET?

YES



IS A MULTI-WAY STOP WARRANTED?

YES







Traffic Calming Toolbox Scoring Sheets



Scoring Matrix



Measure	Criteria for assigning a numerical score to traffic problems	Points
Crash History	1-3 crashes in a 5 year period = 5 points 4-10 crashes in a 5 year period = 10 points More than 10 crashes in a 5 year period = 15 points any crash involving a pedestrian/cyclist = +5 points	0-20 pts Score: (5
Vehicle Speed	85th percentile speed is not over the speed limit = 0 points 85th percentile speed is 2 mph over the speed limit = 3 points 85th percentile speed is 4 mph over the speed limit = 6 points 85th percentile speed is 6 mph over the speed limit = 9 points 85th percentile speed is 8 mph over the speed limit = 12 points 85th percentile speed is 10 mph over the speed limit = 15 points Outlier Speed 20+ mph above posted speed limit = +5 points	0-20 pts
Vehicle Volume	ADT < 750 = 0 points ADT = 751 - 1,350 = 5 points ADT = 1,351 - 1,950 = 10 points ADT = 1,951 - 2,550 = 15 points ADT > 2,550 = 20 points	0-20 pts
Pedestrian Traffic Generators	Any school, park, library, church, CTA station more than 2 blocks (1,320 ft.) away = 0 points Any school, park, library, church, CTA station 1-2 blocks (1,320 ft.) away = 5 points Any school, park, library, church, CTA station 1 block (660 ft.) or less away = 10 points	0-20 pts
	Three or more overlapping 1-block areas = +10 points Three or more overlapping 2-block areas = +5 points	Score:
Bike Routes / Non-Bike	Not identified as a proposed bike route = points Identified as a Marked Shared Lane = 5 points	0-10 pts
Routes	Identified as a Dedicated Bike Lane = 10 points *Per Village Bicycle Plan published in 2019	Score:
Community Interest	No Petition = 0 points Local Petition (0-75% residents on block) = 5 points Local Petition (75%+ of residents on block) = 10 points	0-10 pts
community interest	Village Petition (0-10% of Village population) = 5 points Village Petition (10%+ of Village population) = 10 points	Score:
	Madison St Ashland Ave Vme St	Total:

Scoring Matrix



Mossura	Potentia fine aggionine a suppostant assess to traffic and blasse	
Measure	Criteria for assigning a numerical score to traffic problems	Points
	1-3 crashes in a 5 year period = 5 points 4-10 crashes in a 5 year period = 10 points	0-20 pts
Crash History	More than 10 crashes in a 5 year period = 15 points	Score:
	any crash involving a pedestrian/cyclist = +5 points	15
Vehicle Speed	85th percentile speed is not over the speed limit = 0 points 85th percentile speed is 2 mph over the speed limit = 3 points 85th percentile speed is 4 mph over the speed limit = 6 points 85th percentile speed is 6 mph over the speed limit = 9 points 85th percentile speed is 8 mph over the speed limit = 12 points 85th percentile speed is 10 mph over the speed limit = 15 points	0-20 pts
	Outlier Speed 20+ mph above posted speed limit = +5 points	9
Vehicle Volume	ADT < 750 = 0 points ADT = 751 - 1,350 = 5 points	0-20 pts
venicie volume	ADT = 1,351 - 1,950 = 10 points ADT = 1,951 - 2,550 = 15 points	Score:
	ADT > 2,550 = 20 points	5
Pedestrian Traffic Generators	Any school, park, library, church, CTA station more than 2 blocks (1,320 ft.) away = 0 points Any school, park, library, church, CTA station 1-2 blocks (1,320 ft.) away = 5 points Any school, park, library, church, CTA station 1 block (660 ft.) or less away = 10 points	0-20 pts.
	Three or more overlapping 1-block areas = +10 points Three or more overlapping 2-block areas = +5 points	Score:
Bike Routes / Non-Rike	Not identified as a proposed bike route = points Identified as a Marked Shared Lane = 5 points	0-10 pts
Routes	Identified as a Dedicated Bike Lane = 10 points	Score:
	*Per Village Bicycle Plan published in 2019	0
Community Interest	No Petition = 0 points Local Petition (0-75% residents on block) = 5 points	0-10 pts.
community interest	Local Petition (75%+ of residents on block) = 10 points Village Petition (0-10% of Village population) = 5 points	Score:
	Village Petition (10%+ of Village population) = 10 points	0
Intersection 1:	Vine St	Total:
Segment:	Ashland Ave	34
Intersection 2:	Washington Blvd	





APPENDIX F: WASHINGTON BLVD CORRIDOR STUDY

- 01. Speed Data
- 02. Washington Blvd Crash Data
- 03. Signal Warrant
- 04. Traffic Calming Toolbox Scoring Sheet
- 05. Washington Blvd Exhibits





Speed Data



Sequential 85th Percentile Report

Device ID: 405195 Begin: 06/07/2023 02:00 PM End: 06/08/2023 02:00 PM

Street: Washington Blvd Lane: Misc see chat Hours: 24.00
State: II Operator: SD Period (min): 15
City: River Forest Speed Limit: 25 Raw Count: 3,327

County: United States AADT Factor: 1 ADT Count: 3,327

Date / Hour	85th Percentile EB	85th Percentile WB	Avg Spe	Max Sp	EB 85th WB	8 85th
Wednesday, June 7, 2023 3:00PM	40	40	40	40	39	39
Wednesday, June 7, 2023 4:00PM	39	39	39	39		
Wednesday, June 7, 2023 5:00PM	39	40	39.5	40		
Wednesday, June 7, 2023 6:00PM	39	38	38.5	39		
Wednesday, June 7, 2023 7:00PM	36	41	38.5	41		
Wednesday, June 7, 2023 8:00PM	38	40	39	40		
Wednesday, June 7, 2023 9:00PM	37	38	37.5	38		
Wednesday, June 7, 2023 10:00PM	37	36	36.5	37		
Wednesday, June 7, 2023 11:00PM	40	37	38.5	40		
Thursday, June 8, 2023 12:00AM	41	41	41	41		
Thursday, June 8, 2023 1:00AM	44	38	41	44		
Thursday, June 8, 2023 2:00AM	34	37	35.5	37		
Thursday, June 8, 2023 3:00AM	29	22	25.5	29		
Thursday, June 8, 2023 4:00AM	36	37	36.5	37		
Thursday, June 8, 2023 5:00AM	36	35	35.5	36		
Thursday, June 8, 2023 6:00AM	42	39	40.5	42		
Thursday, June 8, 2023 7:00AM	41	40	40.5	41		
Thursday, June 8, 2023 8:00AM	41	39	40	41		
Thursday, June 8, 2023 9:00AM	40	39	39.5	40		
Thursday, June 8, 2023 10:00AM	39	40	39.5	40		
Thursday, June 8, 2023 11:00AM	37	40	38.5	40		
Thursday, June 8, 2023 12:00PM	37	36	36.5	37		
Thursday, June 8, 2023 1:00PM	40	36	38	40		
Thursday, June 8, 2023 2:00PM	38	38	38	38		





Washington Blvd Crash Data



ID Name U1411_E

LOCATION INFO: Washington Blvd: Forest - Park

PG, FC & ADT Primary

| Main ID: U1411_E | Sub ID: ALL | Study Period Begin Year: | 2016 | to | 2021 |

County: Cook County

Analysis Period 6 years

		Rear	End			Angle		Side	swipe Direc	Oppos	site		swipe :	1	Turning	Left	Т	urning	Right		Fixed C	Object		Overtu	rned		Head C	n		Pedestri	an	0	ther Ob	ject		Anim	al		Pedalcy	clist	Othe	r Non-C	ollision	TO	DTAL
YEAR	Crash Count	Injur Type	ry Ir e C	njury (Crash Count	Injury Type	Injury Count	Crash			ury C			Crash Count	Injury Type	Injury	Crash Count	Injury Type	Injury	Cras	sh Injur	y Inju	ry Crast nt Coun	n Injur	Injury Count	Crash Count	Injury Type	Injury Count	Crash t Coun	n Injury it Type	Injury Count	y Crash t Count	Injury Type	Injury Count	Crash Count	Injur									
2016					- Annean anne																			NACHORAL BUTCHERS																				0	
2017																																												0	
2018																																												0	
2019																				1																								1	
2020																																												0	
2021																																												0	
TOTAL	0				0			0				0		0			0			1			0			0			0			0			0			0			0			1	
%		0.0	1%			0.0%		İ	0.0	1%			0.0%		0.09			0.09	4		100.	n%.		0.0	v.		0.0%	-	Ť –	0.0%	$\overline{}$	7	0.0%	-		0.0%		1	0.0%	_	1	0.0%			

			INJURY TYPE					CRASH CO	ONDITIONS			TOTAL
YEAR	K	Α	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016					0	0	-	0	-	0	-	0
2017					0	0	-	0	-	0	-	0
2018					0	0	-	0	-	0		0
2019					1	1	100%	0	0%	1	100%	1
2020					0	0	-	0	-	0		0
2021					0	0	-	0		0	,	0
TOTAL	0	0	0	0	1	1	100.0%	0	0.0%	1	100.0%	1

PG, FC & ADT AWS

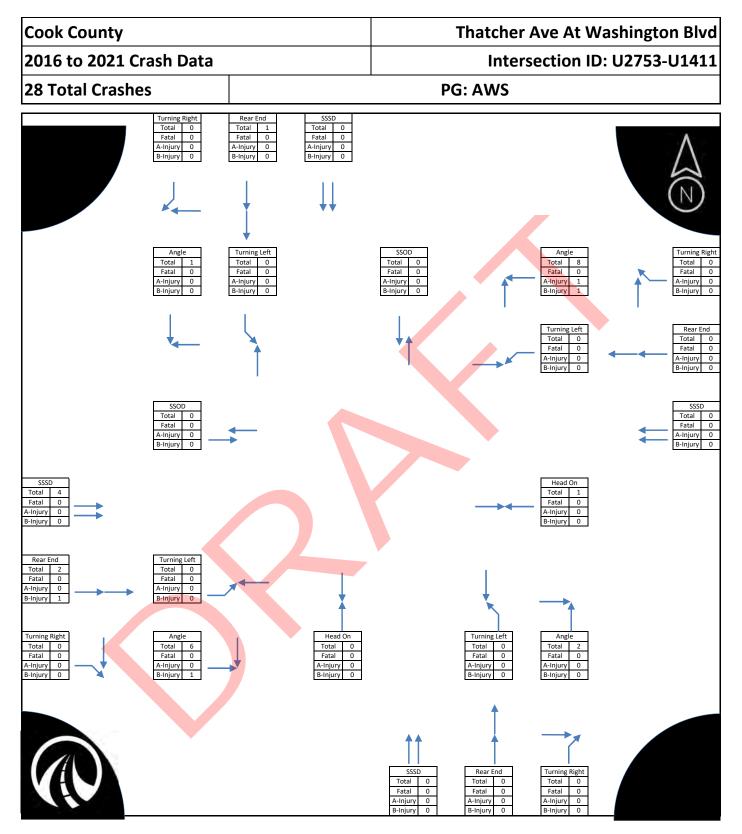
| Main ID: U2753-U1411 | Sub ID: ALL | Study Period Begin Year: | 2016 | to | 2021 |

County: Cook County

Analysis Period 6 years

		Rear	End			Angle	,	Side	Swipe		te S	ideswi Dire		е	Turnin	g Left		Turning	Right		Fixed O	oject	(Overturn	ied		Head C)n	P	Pedestri	ian	0	ther Ob	ject		Anim	al		Pedalcy	clist	Othe	r Non-C	ollision	TO	OTAL
YEAR	Crash	Injur	y Inj	ury C	Crash Count	Injury Type	Injury Count	Crash			y Cras			ury Cra	sh Inju unt Typ	ry Inju	ry Cras	h Injur	/ Injury Count	Crasi Cour	h Injury it Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Count																		
2016	1	Tananananananananananananananananananan	-		3	1-A	1 - AI				1					AND DESCRIPTION OF THE PERSON								-		1			000000									1	1-B	1 - BI				7	1 - AI 1 - BI
2017	2	1-B	1 -		5						1									1																								9	1 - BI 1 - CI
2018					5	1-B 1-C	3 - BI 4 - CI				1																																	6	3 - BI 4 - CI
2019					3																																							3	
2020					1	1-B	1 - BI																																					1	1 - BI
2021											1																											1	1-C	1 - CI				2	1 - CI
TOTAL	3	1-E	3 1-	·BI	17	2 - B	1 - Al 4 - Bl 4 - Cl	0			4			(0			1			0			1			0			0		-	0			2	1-B 1-C	1-BI 1-CI	0			28	1 - AI 6 - BI 6 - CI
%		10.7	%			60.7%	,		0.0	%		14	3%		0.0	1%		0.0	%		3.69	,		0.0%			3.6%			0.0%			0.0%			0.0%			7.1%			0.0%			

			INJURY TYPE					CRASH CO	ONDITIONS			TOTAL
YEAR	K	A	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016		1	1		5	2	29%	0	0%	2	29%	7
2017			1	1	7	2	22%	1	11%	1	11%	9
2018			1	1	4	2	33%	0	0%	2	33%	6
2019					3	1	33%	1	33%	1	33%	3
2020			1		0	0	0%	0	0%	1	100%	1
2021				1	1	0	0%	0	0%	0	0%	2
TOTAL	0	1	4	3	20	7	25.0%	2	7.1%	7	25.0%	28



The following crashes could not be plotted on the diagram

	FO	OT	PD	PDC	00	Animal	ONC	TOTAL
Total	1	0	0	2	0	0	0	3
Fatal	0	0	0	0	0	0	0	0
A-Injury	0	0	0	0	0	0	0	0
B-Injury	0	0	0	1	0	0	0	1

ID Name U1411-M2005

LOCATION INFO: Washington Blvd At Gale Ave

PG, FC & ADT Minor Stop - 4 Leg

| Main ID: U1411-M2005 | Sub ID: ALL | | Study Period Begin Year: | 2016 | to | 2021 |

County: Cook County

Analysis Period 6 years

				_				1014		е Орр		6:4-	swipe	e	_			_			_		_	_	_			_			_			_			_			-			_				
		Rear E	nd			Angle	,	Siui		e Oppi	osite		Directio		'	Turning	Left		Turning	Right		Fixed	d Obje	ct	0	verturn	ed		Head C	n	1	Pedestr	ian	C	Other Ob	ject		Anim	al		Pedalcy	rclist	Othe	r Non-C	ollision	T	DTAL
YEAR	Crash Count	Injury Type	Inju Cou	ry Cr nt Co	ash I	Injury Type	Injury Count	Cras	sh Inju	ury li	njury Count	Crash Count	Injury Type	Injury Count	Crash Coun	Injury Type	Inju Cou	ry Cras	sh Injui nt Typ	y Inju Cou	iry Ci int Ci	rash In ount Ty	jury /pe	Injury Count	Crash Count	Injury Type	Injury Count	Crash Coun	Injury Type	Injury Coun	Crash Count	Injury Type	Injury Count	Crash Count	Injury Count												
2016							1 - BI 2 - CI																																	1	1-C	1-C				3	1 - BI 3 - CI
2017					2																																									2	
2018	1	1-B	1-1	ВІ	3	1-B 1-C	1 - BI 1 - CI																														1									5	2 - BI 1 - CI
2019					1																													P												1	
2020					1																																									1	
2021					2																																									2	
TOTAL	1	1 - B	1-1	ві	11	2 - B 2 - C	2 - BI 3 - CI	0				0			0			0				0			0			0			0			0		-	1			1	1-C	1-C	0			14	3 - BI 4 - CI
%		7.1%	,			78.6%			0.	.0%			0.0%			0.09	%		0.0	%			0.0%			0.0%			0.0%			0.0%			0.0%			7.1%			7.19	6		0.0%	,		

			INJURY TYPE					CRASH CO	ONDITIONS			TOTAL
YEAR	K	Α	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016			1	2	0	1	33%	0	0%	1	33%	3
2017					2	0	0%	0	0%	0	0%	2
2018			2	1	2	1	20%	0	0%	1	20%	5
2019					1	1	100%	0	0%	0	0%	1
2020					1	0	0%	0	0%	0	0%	1
2021					2	0	0%	0	0%	0	0%	2
TOTAL	0	0	3	3	8	3	21.4%	0	0.0%	2	14.3%	14

Cook County Washington Blvd At Gale Ave Intersection ID: U1411-M2005 2016 to 2021 Crash Data **14 Total Crashes** PG: Minor Stop - 4 Leg Turning Right Total 0 Rear End Total 0 Total 0 0 0 Fatal 0 A-Injury 0 B-Injury 0 Fatal 0 A-Injury 0 Fatal A-Injury Total Total Total 0 Total Rear End Fatal 0 Fatal 0 A-Injury 0 B-Injury 0 A-Injury 0 Fatal 0 Fatal 0 A-Injury 0 A-Injury 0 SSSD Total 0 Total 0 Fatal 0 Fatal 0 A-Injury 0 Turning Left Rear End Total 0 Fatal 0 Total 0 Fatal 0 A-Injury 0 A-Injury 0 Turning Right Angle Head On Turning Left Angle Total 0 Total 5 Fatal 0 Total 0 Total 0 Total 0 Fatal 0 Fatal 0 Fatal 0 Fatal 0 A-Injury 0 B-Injury 0 A-Injury 0 B-Injury 0 A-Injury 0 B-Injury 0 0 Total 0 Total 0 Total 0 Fatal 0 Fatal 0 Fatal 0 A-Injury A-Injury

The following crashes could not be plotted on the diagram

	FO	OT	PD	PDC	00	Animal	ONC	TOTAL
Total	0	0	0	1	0	1	0	2
Fatal	0	0	0	0	0	0	0	0
A-Injury	0	0	0	0	0	0	0	0
B-Injury	0	0	0	0	0	0	0	0

ID Name LOCATION INFO:

PG, FC & ADT County:

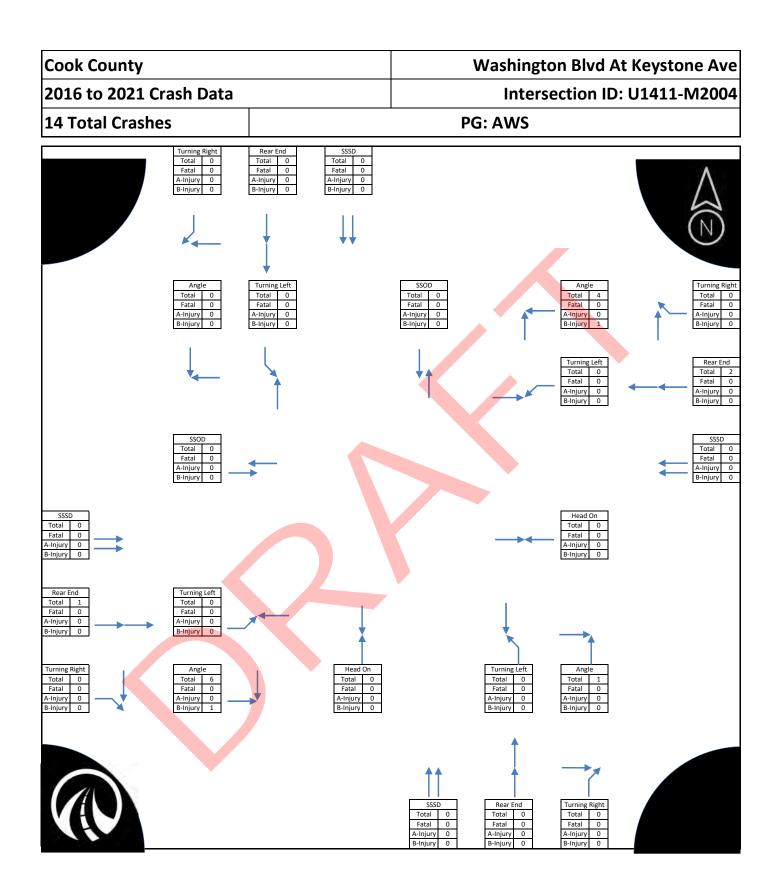
| Main ID: U1411-M2004 | Sub ID: ALL | | Study Period Begin Year: | 2016 | to | 2021 |

Cook County

Analysis Period 6 years

												81.1													_															_							
		Rear	End			Angle	•	Sia		pe Opp rection	osite		eswipe Direction			Turnin	g Left		Turni	ng Rigl	ht	Fi	xed Ob	ject	(Overtur	ed		Head C	n	P	Pedestri	an	0	ther Ob	ject		Anima	al		Pedalcy	clist	Other	r Non-Co	ollision	то	TAL
YEAR	Crash Count	Inju Typ	ry Ir e C	njury Jount	Crash Count	Injury Type	Injury Count	Cras	sh Ir int T	njury ype	Injury Count	Crash Count	Injury Type	Injury Count	Crasi Coun	n Injur	y Inj	jury Cra ount Co	ash In unt Ty	jury I ype C	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Count
2016	1	1-1	C 1	- CI	3	1-B	1 - BI																																							4	1 - BI 1 - CI
2017	1				3																																									4	
2018					1																																									1	
2019					4	1 - B	1 - BI	1																										P												4	1 - BI
2020																																														0	
2021	1																																													1	
TOTAL	3	1-	C 1		11	2 - B	2 - BI	0				0			0				0			0			0	CACACACACACACACACACACACACACACACACACACA		0			0			0			0			0			0			14	2 - BI 1 - CI
%		21.	4%			78.6%				0.0%			0.0%			0.0	%			0.0%			0.0%			0.0%			0.0%			0.0%			0.0%			0.0%			0.0%			0.0%			

			INJURY TYPE						ONDITIONS			TOTAL
YEAR	K	A	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016			1	1	2	0	0%	1	25%	0	0%	4
2017					4	0	0%	0	0%	3	75%	4
2018					1	0	0%	0	0%	0	0%	1
2019			1		3	1	25%	0	0%	1	25%	4
2020					0	0	-	0	-	0	-	0
2021					1	0	0%	0	0%	0	0%	1
TOTAL	0	0	2	1	11	1	7.1%	1	7.1%	4	28.6%	14



ID Name U1411-M2003

LOCATION INFO: Washington Blvd At Forest Ave

PG, FC & ADT Minor Stop - 3 Leg

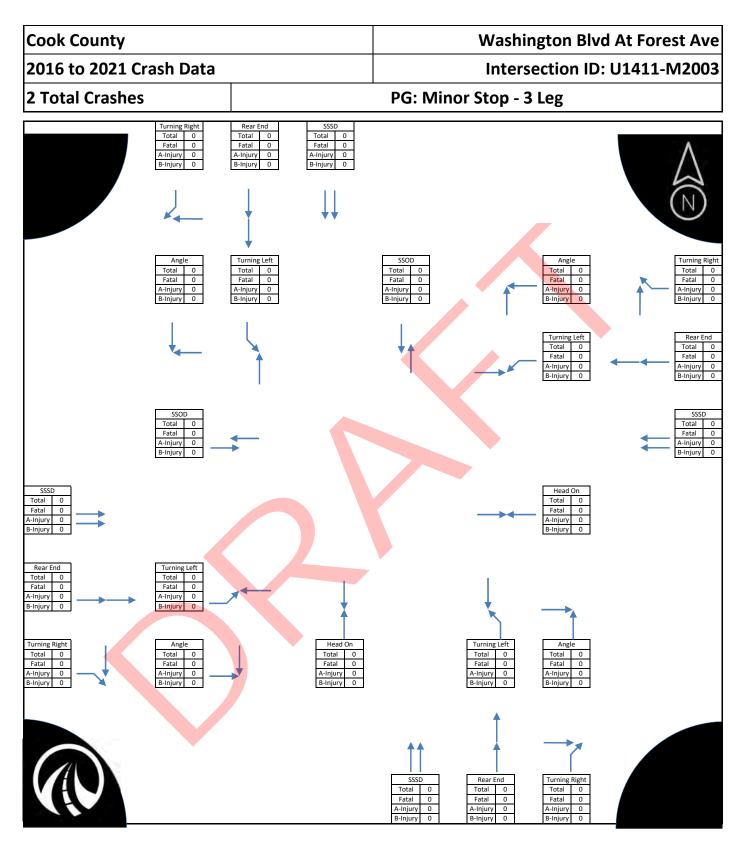
| Main ID: U1411-M2003 | Sub ID: ALL | | Study Period Begin Year: | 2016 | to | 2021 |

County: Cook County

Analysis Period 6 years

	1	Rear	End			Angle				Oppos	ite		wipe S	-	urning l	l off	т.	ırning F	Diaht		xed Ob	inct		verturn	od	_	lead O		Pedest	rian		Other Ol	inct		Anima	D,	edalcyc	liet	Othor	Non-Col	llicion	TO	rai .
YEAR	Crash Count	Injur		njury (Injury Count		Direct Injur	$\overline{}$	ury Cra		irection Injury Type	_			Crash Count		-	Crash Count		_			Injury Count			Injury Cras Count Cou			_		_	Crash Count		 		Injury Count		Injury Type		Crash Count	Injur
2016		- 76-				-,,			,,,,,				.,,-		-76-			1,76-			-5/			-7			.,,-		-		1	.,,,-			7,6		7,5-			7,5-		1	
2017																																										0	
2018																																										0	
2019																																										0	
2020																															1	1 - B	1 - BI									1	1-1
2021																																										0	
TOTAL	0				0			0				0		0			0			0			0			0		0			2	1-B	1 - BI	0		0			0			2	1 - 1
%		0.0	1%			0.0%		1	0.0	1%			0.0%		0.0%			0.0%			0.0%			0.0%			0.0%		0.0	6	IZ	100.0	%		0.0%		0.0%			0.0%			

			INJURY TYPE					CRASH CO	ONDITIONS			TOTAL
YEAR	K	A	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016					1	0	0%	0	0%	0	0%	1
2017					0	0	-	0	-	0	-	0
2018					0	0	-	0	-	0		0
2019					0	0	-	0	-	0		0
2020			1		0	1	100%	0	0%	0	0%	1
2021					0	0	-	0	-	0	,	0
TOTAL	0	0	1	0	1	1	50.0%	0	0.0%	0	0.0%	2



The following crashes could not be plotted on the diagram

	FO	OT	PD	PDC	00	Animal	ONC	TOTAL
Total	0	0	0	0	2	0	0	2
Fatal	0	0	0	0	0	0	0	0
A-Injury	0	0	0	0	0	0	0	0
B-Injury	0	0	0	0	1	0	0	1

PG, FC & ADT AWS

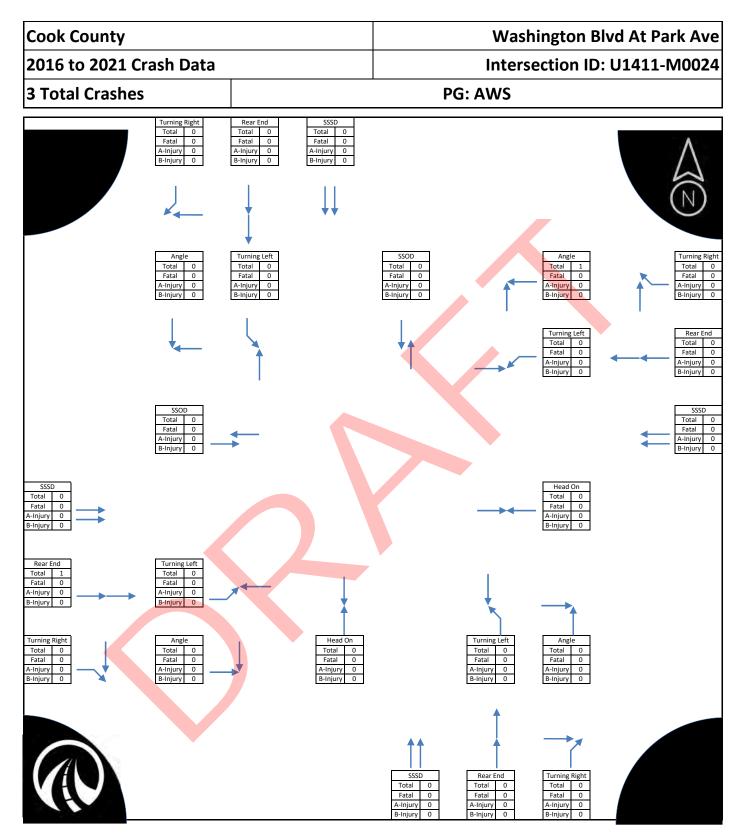
| Main ID: U1411-M0024 | Sub ID: ALL | Study Period Begin Year: | 2016 | to | 2021 |

County: Cook County

Analysis Period 6 years

		Rear	End			Angle	•	Sid		e Oppo	osite		eswipe Directio		Turnin	g Left		Turnii	ng Rig	ght	F	ixed O	ject		Overturn	ned		Head C	n	P	Pedestri	ian	C	ther Ob	ject		Anim	al		Pedalcy	clist	Othe	r Non-C	ollision	TO	OTAL
YEAR	Crash	n Inju	ry II	njury ount	Crash Count	Injury Type	Injury Coun	Cras			njury (Injury Type	Crasi Coun	h Injur	y Inju	ury Cra	ash Inj unt Ty	jury /pe	Injury Count	Crash Count	Injury Type	Injury	Crash	Injury Type	Injury	Crash Count	Injury Type	Injury Count	Crash Count	Injury Count															
2016		A CONTRACTOR OF THE CONTRACTOR	NA TANADA DA		1																1	1-0	1 - CI		-																				2	1-CI
2017	1		-																																										1	
2018																																													0	
2019																																													0	
2020																																													0	
2021																																													0	
TOTAL	1				1			0				0		0			(0			1	1-C	1 - CI	0			0			0			0			0			0			0			3	1 - CI
%		33.	3%			33.3%	5		0.	.0%			0.0%		0.0	%		0	0.0%			33.3	5		0.0%			0.0%			0.0%			0.0%			0.09	,		0.0%	,		0.0%			

			INJURY TYPE					CRASH CO	ONDITIONS			TOTAL
YEAR	K	A	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016				1	1	0	0%	0	0%	1	50%	2
2017					1	0	0%	0	0%	0	0%	1
2018					0	0	-	0		0	-	0
2019					0	0	-	0	-	0		0
2020					0	0	-	0	-	0		0
2021					0	0	-	0		0	,	0
TOTAL	0	0	0	1	2	0	0.0%	0	0.0%	1	33.3%	3



The following crashes could not be plotted on the diagram

	FO	OT	PD	PDC	00	Animal	ONC	TOTAL
Total	1	0	0	0	0	0	0	1
Fatal	0	0	0	0	0	0	0	0
A-Injury	0	0	0	0	0	0	0	0
B-Injury	0	0	0	0	0	0	0	0

ID Name LOCATION INFO:

PG, FC & ADT County:

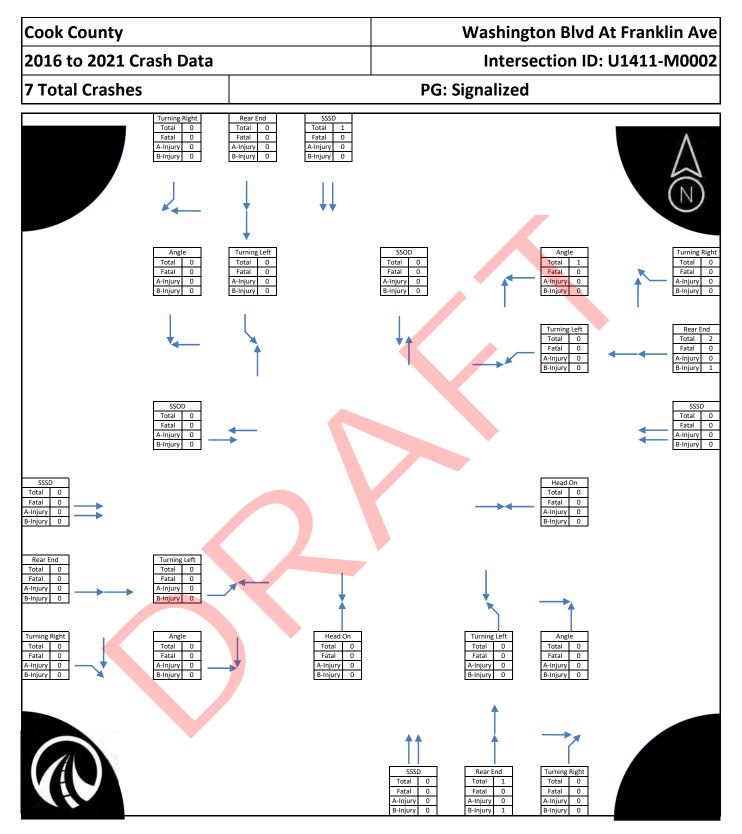
| Main ID: U1411-M0002 | Sub ID: ALL | | Study Period Begin Year: | 2016 | to | 2021 |

Cook County

Analysis Period 6 years

				_			ei4	newino	Oppos	ito 1	idoew	ipe San	20										_			_						_			_			_			_			1	
		Rear E	nd		Ang	le	Siu	Direc			Dire	ction	110	Turn	ing Le	eft	Tui	rning R	light	F	ixed Ob	ject		Overturn	ied		Head C	n	P	Pedestri	an	0	ther Ob	ject		Anim	al		Pedalcy	clist	Othe	r Non-C	ollision	TO	DTAL
YEAR	Crash Count	Injury Type	Injury Count	Crasi Coun	n Injury t Type	Injury Coun	Cras t Cour	h Injur	ry Inju	iry Cra	sh Inju	ury In pe Co	jury Count C	rash In ount T	ury pe	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Count																								
2016	1	1 - B	2 - BI																	1																								2	2 - BI
2017	1	1-B	2 - BI																																									1	2 - BI
2018																																												0	
2019	1	1-C	1- CI							1																						1	1 - B	1 - BI										3	1 - BI 1 - CI
2020																																												0	
2021				1																																								1	
TOTAL	3	2 - B 1 - C	4 - BI 1 - CI				0			1				0			0			1			0			0			0			1	1-B	1 - BI	0			0			0			7	5 - BI 1 - CI
%		42.9%			14.3	%		0.0	0%		14	1.3%			0.0%			0.0%			14.39	5		0.0%			0.0%			0.0%			14.3%	,		0.0%			0.0%			0.0%	,		

			INJURY TYPE					CRASH CO	ONDITIONS			TOTAL
YEAR	K	A	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016			1		1	0	0%	1	50%	1	50%	2
2017			1		0	0	0%	0	0%	0	0%	1
2018					0	0	-	0	-	0		0
2019			1	1	1	0	0%	0	0%	1	33%	3
2020					0	0	-	0	-	0	-	0
2021					1	0	0%	0	0%	0	0%	1
TOTAL	0	0	3	1	3	0	0.0%	1	14.3%	2	28.6%	7



The following crashes could not be plotted on the diagram

	FO	OT	PD	PDC	00	Animal	ONC	TOTAL
Total	1	0	0	0	1	0	0	2
Fatal	0	0	0	0	0	0	0	0
A-Injury	0	0	0	0	0	0	0	0
B-Injury	0	0	0	0	1	0	0	1

ID Name U1411-M2000

LOCATION INFO: Washington Blvd At Ashland Ave

PG, FC & ADT Minor Stop - 4 Leg

| Main ID: U1411-M2000 | Sub ID: ALL | | Study Period Begin Year: | 2016 | to | 2021 |

County: Cook County

Analysis Period 6 years

		Rea	ar En	d		An	ngle				e Opp	osite		swipe irectio			Turni	ng Le	ft	Tu	rning F	Right		Fixed (Object		Ove	rturne	i		Head C	On		Pedestr	ian		Other C	bject		Ani	imal		Ped	alcycli	st	Other	Non-Co	ollision	TC	TAL
YEAR	Crash Count	n Inj	jury ype	Injury Count	Crasi	n Inju	ury pe	Injury Count	Crash Coun	h Inj	ury pe (Injury C	ash ount	Injury Type	Injury Count	Cras Cour	h Inju	ury I	Injury Count	Crash Count	Injury Type	Injury Count	Crasi Cour	h Injui	ry Inj e Co	ury Cr unt Co	ash In ount T	njury 'ype	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Coun	Crash Coun	n Injur	/ Inju	ry Cras nt Cou	sh Inju	ry Inj	jury Cr ount Cr	ash In	njury ype	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Count
2016					2	1-	В	2 - BI																																									2	2 - BI
2017		A STATE OF THE STA	-		5	2-	В	4 - BI								1							1				-									1													8	4 - BI
2018	3	1	- B	2 - BI	2	1-	С	1 - CI																												1	4												6	2 - BI 1 - CI
2019					1																																												1	
2020	1				3																																												4	
2021																											-																						0	
TOTAL	4	1	- B	2 - BI	13	3 -		6 - BI 1 - CI	0				0			1				0			1				0			0			0			2			0				0			0			21	8 - BI 1 - CI
%		19	9.0%				.9%			0	.0%			0.0%			4.	.8%			0.0%			4.8	3%			0.0%			0.0%			0.0%		K	9.5	%		0.0	0%			0.0%			0.0%			

			INJURY TYPE					CRASH CO	ONDITIONS			TOTAL
YEAR	K	Α	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016			1		1	0	0%	1	50%	2	100%	2
2017			2		6	0	0%	0	0%	1	13%	8
2018			1	1	4	1	17%	2	33%	1	17%	6
2019					1	1	100%	0	0%	0	0%	1
2020					4	1	25%	0	0%	0	0%	4
2021					0	0	-	0	-	0		0
TOTAL	0	0	4	1	16	3	14.3%	3	14.3%	4	19.0%	21

Washington Blvd At Ashland Ave Cook County Intersection ID: U1411-M2000 2016 to 2021 Crash Data PG: Minor Stop - 4 Leg 21 Total Crashes Turning Right Total 0 Total 0 Total 0 0 0 Fatal 0 A-Injury 0 B-Injury 0 Fatal 0 A-Injury 0 Fatal A-Injury Total Total 0 Total Rear End Fatal 0 Fatal 0 A-Injury 0 B-Injury 0 A-Injury 0 Fatal 0 Fatal 0 A-Injury 0 A-Injury 0 SSSD Total 0 Total 0 Fatal 0 Fatal 0 A-Injury 0 Turning Left Rear End Total 0 Fatal 0 0 A-Injury 0 Turning Right Angle Head On Turning Left Angle Total 0 Total 3 Total 0 Total 0 Total Fatal 0 Fatal 0 Fatal 0 Fatal 0 Fatal 0 A-Injury 0 B-Injury 0 A-Injury 0 B-Injury 0 A-Injury 0 B-Injury 0 0 Total 0 Total 0 Total 1 Fatal 0 Fatal 0 Fatal 0 A-Injury A-Injury

The following crashes could not be plotted on the diagram

	FO	OT	PD	PDC	00	Animal	ONC	TOTAL
Total	1	0	0	0	2	0	0	3
Fatal	0	0	0	0	0	0	0	0
A-Injury	0	0	0	0	0	0	0	0
B-Injury	0	0	0	0	0	0	0	0

PG, FC & ADT Signalized

County: Cook County

Analysis Period 6 years

	_							6:-		^-	posite	e:-		Same	_				_			_			_			_																		_	
		Rea	r End			Angl	9	Siu		rection			Direct			Turn	ing Le	eft	Τι	ırning F	Right	- 1	Fixed O	bject		Overtu	rned		Head (On		Pedestri	an	0	ther Ob	ject		Anima	al		Pedalcy	clist	Other	r Non-C	ollision	TO	TAL
YEAR	Crash Count	h Inj	ury pe (Injury Count	Crash Count	Injury Type	Injury Count	Cras t Cou	sh li int 1	njury Type	Injury Count	Crash Count	Injury Type	Injur Cour	y Cra	sh In unt T	jury ype	Injury Count	Crash Count	Injury Type	Injury Count	Crast Coun	n Injury t Type	Inju Cou	ry Crasi nt Cour	h Injur	/ Injury Coun	Crast	Injury t Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Count												
2016												2														and a second second			-					1												3	
2017	1				1	1 - B	1 - BI	ı							1											and the second s								1												4	1 - BI
2018																										-																				0	
2019	3	1	- В	1 - BI																						on the second se								P												3	1 - BI
2020																										and the second s																				0	
2021	1				1																																									2	
TOTAL	5	1	-В	1 - BI	2	1 - B	1 - BI	0				2			1				0			0			0	- CONTRACTOR OF THE CONTRACTOR		0			0			2			0			0			0			12	2 - BI
%		41	1.7%			16.79	6			0.0%			16.7	%		1	8.3%			0.0%			0.0	6		0.0	%		0.0%			0.0%			16.7%	,		0.0%			0.0%			0.0%			

			INJURY TYPE						ONDITIONS			TOTAL
YEAR	K	A	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016					3	0	0%	0	0%	1	33%	3
2017			1		3	1	25%	0	0%	1	25%	4
2018					0	0	-	0	-	0		0
2019			1		2	2	67%	0	0%	0	0%	3
2020					0	0	-	0	-	0		0
2021					2	0	0%	0	0%	0	0%	2
TOTAL	0	0	2	0	10	3	25.0%	0	0.0%	2	16.7%	12

Cook County Washington Blvd At Lathrop Ave Intersection ID: U1411-U2765 2016 to 2021 Crash Data **PG: Signalized 12 Total Crashes** Turning Right Total 0 Total 0 Total 1 0 Fatal 0 A-Injury 0 Fatal 0 Fatal A-Injury A-Injury 0 Total Total Rear End Fatal 0 Fatal 0 A-Injury 0 B-Injury 0 A-Injury 0 Fatal 0 Fatal 0 A-Injury 0 SSSD Total 1 Total 0 Fatal 0 Fatal A-Injury Rear End Turning Left Total 0 Fatal 0 0 0 Turning Right Angle Head On Turning Left Angle Total 0 Total 1 Total 0 Total 0 Total 0 Fatal 0 Fatal 0 Fatal 0 Fatal 0 Fatal 0 A-Injury 0 A-Injury 0 B-Injury 1 Total 0 Total 1 Total 0 Fatal 0 Fatal Fatal 0

The following crashes could not be plotted on the diagram

	FO	OT	PD	PDC	00	Animal	ONC	TOTAL
Total	0	0	0	0	2	0	0	2
Fatal	0	0	0	0	0	0	0	0
A-Injury	0	0	0	0	0	0	0	0
B-Injury	0	0	0	0	0	0	0	0

The following crashes need to be reviewed/corrected before being plotted on the diagram

	RE	Angle	SSOD	SSSD	TL	TR	НО	TOTAL
Total	0	0	0	0	1	0	0	1
Fatal	0	0	0	0	0	0	0	0
A-Injury	0	0	0	0	0	0	0	0
B-Injury	0	0	0	0	0	0	0	0





Signal Warrant



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT #1, BUREAU OF TRAFFIC OPERATIONS

SUMMARY OF TRAFFIC SURVEY

INTERSECTION: Thatcher Avenue & Washington Blvd

MUNICIPALITY: River Forest

COUNTY: Cook

	TRAFFIC FROM NORTH OUTE: Thatcher Avenue					AFFIC FR	OM SOL					ROM EA				ROM WE			
ROUTE :				_		r Avenue		SRA	•	Washing			SRA	Washing			SRA	ı	
	N. OF :	Washingto	on Blvd		S. OF:	Washing	ton Blvd			E. OF:		r Avenue		W. OF:		r Avenue			
		GOING	· · · · · · · · · · · · · · · · · · ·			GOING			TOTAL		GOING	T			GOING			TOTAL	
	EAST	SOUTH	WEST		WEST	NORTH	EAST		NORTH	SOUTH	WEST	NORTH		NORTH	EAST	SOUTH		EAST	
START HOUR	L	↓	•	TOTAL		1		TOTAL	AND SOUTH	•	←	1	TOTAL		→		TOTAL	AND WEST	GRAND TOTAL
6:00	6	116	40	162	4	47	3	54	216	2	49	2	53	63	89	4	156	209	425
7:00	7	134	56	197	13	163	13	189	386	6	125	23	154	82	299	12	393	547	933
8:00	12	172	78	262	9	188	15	212	474	7	149	17	173	80	217	13	310	483	957
9:00	8	74	36	118	6	107	9	122	240	5	60	13	78	44	85	8	137	215	455
10:00	6	72	34	112	3	79	5	87	199	2	67	9	78	37	75	5	117	195	394
11:00	6	80	32	118	3	69	9	81	199	5	77	15	97	29	65	3	97	194	393
12:00	4	91	32	127	3	103	5	111	238	8	95	11	114	37	74	1	112	226	464
13:00	12	101	40	153	2	81	5	88	241	5	105	17	127	20	94	2	116	243	484
14:00	12	99	48	159	5	126	9	140	299	4	111	14	129	46	140	12	198	327	626
15:00	10	130	91	231	11	167	18	196	427	14	209	15	238	100	212	17	329	567	994
16:00	11	167	93	271	8	166	16	190	461	6	204	23	233	104	260	17	381	614	1075
17:00	11	115	71	197	8	142	21	171	368	2	173	20	195	100	309	8	417	612	980
18:00	7	89	52	148	5	84	10	99	247	6	95	6	107	69	166	8	243	350	597
19:00	1	55	24	80	2	52	1	55	135	2	42	10	54	35	60	3	98	152	287
20:00	0	26	9	35	1	41	3	45	80	2	34	3	39	11	40	2	53	92	172
21:00	0	31	13	44	2	23	1	26	70	0	26	2	28	17	17	0	34	62	132

REVIEW INFORMATION

COUNTS USED: IDOT

COUNT DATE(S): 12/06/22 - AM 12/06/22 - PM

DATE REVIEWED: 07/13/23 REVIEWED BY: KRS

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC OPERATIONS

DISTRICT #1

RIGHT TURN FACTORIZATION SHEET

INTERSECTION: Thatcher Avenue & Washington Blvd

MUNICIPALITY: River Forest COUNTY: Cook

			MINOR S EET NAME: CONFIG. #: VOLU	Thatch	er Aven	CRITICAL MAINLINE APPROACH	BASE RIGHT TURN	MAINLINE CONGESTION	ADJUSTED RIGHT TURN	ADJUSTED RIGHT	ADJUSTED MINOR
DIR	HOUR BEGIN	L LEFT	T THROUGH	R RIGHT	A TOTAL	VOLUME PER LANE	REDUCTION %	FACTOR %	REDUCTION %	TURNS	STREET VOLUMES
S.B.	6:00	6	116	40	162	27	20	0	20	32	154
N.B.	7:00	13	163	13	189	162	20	0	20	10	186
S.B.	8:00	12	172	78	262	92	20	0	20	62	246
N.B.	9:00	6	107	9	122	51	20	0	20	7	120
S.B.	10:00	6	72	34	112	43	20	0	20	27	105
S.B.	11:00	6	80	32	118	54	20	0	20	26	112
S.B.	12:00	4	91	32	127	59	20	0	20	26	121
S.B.	13:00	12	101	40	153	70	20	0	20	32	145
S.B.	14:00	12	99	48	159	70	20	0	20	38	149
S.B.	15:00	10	130	91	231	120	40	0	40	55	195
S.B.	16:00	11	167	93	271	125	20	0	20	74	252
S.B.	17:00	11	115	71	197	107	40	0	40	43	169
S.B.	18:00	7	89	52	148	54	40	0	40	31	127
S.B.	19:00	1	55	24	80	31	20	0	20	19	75
N.B.	20:00	1	41	3	45	22	20	0	20	2	44
S.B.	21:00	0	31	13	44	15	20	0	20	10	41

REVIE	W INFORMA	MOITA

MAINLINE CONGESTION FACTORS										
VOLUMES	FACTOR (%)									
0-399	0									
400-499	5									
500-599	10									
600-699	15									
700-799	20									
800-899	25									
900-999	30									
1000-1099	35									
1100-1199	40									
1200-1299	45									
1300-1399	50									
1400-1499	55									

COUNTS USED: IDOT

COUNT DATE(S): 12/06/22 (AM) + 12/06/22 (PM)

DATE REVIEWED: July 13, 2023

REVIEWED BY: KRS

Lane Configurations



															BASE
Į	LEFT	THROUGH	RIGHT	TOTAL (A)	.7A	.35A	3T	T/3	(T+L)	(T+R)	3R	3L	T/2	T/4	REDUCTION
ľ	6	116	40	162	113	56.7	348	38.7	122	156	120	18	58	29	20
İ	13	163	13	189	132	66.2	489	54.3	176	176	39	39	81.5	40.8	20
I	12	172	78	262	183	91.7	516	57.3	184	250	234	36	86	43	20
	6	107	9	122	85.4	42.7	321	35.7	113	116	27	18	53.5	26.8	20
	6	72	34	112	78.4	39.2	216	24	78	106	102	18	36	18	20
	6	80	32	118	82.6	41.3	240	26.7	86	112	96	18	40	20	20
	4	91	32	127	88.9	44.5	273	30.3	95	123	96	12	45.5	22.8	20
	12	101	40	153	107	53.6	303	33.7	113	141	120	36	50.5	25.3	20
	12	99	48	159	111	55.7	297	33	111	147	144	36	49.5	24.8	20
	10	130	91	231	162	80.9	390	43.3	140	221	273	30	65	32.5	40
	11	167	93	271	190	94.9	501	55.7	178	260	279	33	83.5	41.8	20
	11	115	71	197	138	69	345	38.3	126	186	213	33	57.5	28.8	40
	7	89	52	148	104	51.8	267	29.7	96	141	156	21	44.5	22.3	40
	1	55	24	80	56	28	165	18.3	56	79	72	3	27.5	13.8	20
	1	41	3	45	31.5	15.8	123	13.7	42	44	9	3	20.5	10.3	20
ĺ		31	13	44	30.8	15.4	93	10.3	31	44	39	0	15.5	7.75	20

DISTRICT #1

SIGNAL WARRANT REVIEW SHEET

ILLINOIS DEPARTMENT OF TRANSPORTATION

		SKA.		
			Yes	No
Intersection: Thatcher Avenue & Washington Blvd	County:	Cook		
Municipality: River Forest				

Speed Limit of Major Route
Number of Lanes on Major approach

Number of Lanes on Major approach

Number of Lanes on Mijor approach

Number of Lanes on Mijor approach

		Adj. Minor	CHEC	CK ANY HOURS \	WHICH MEET THE FO	OLLOWING WAR	RANTS
	Major Street Volume (both	Street Volume	WARF	RANT 1	WARRANT	7: 8 hrs of one	of the Following:
HOUR	approaches)	(higher volume approach)	Α	В	WARRAI	NT 1 A/B	8hrs of BOTH:
BEGIN		арргоасті	100%	100%	80% of A	80% of B	80% of Warr #4
6:00	209	154					
7:00	547	186	Х		Х		
8:00	483	246			Х		
9:00	215	120					
10:00	195	105					
11:00	194	112					
12:00	226	121					
13:00	243	145					
14:00	327	149					
15:00	567	195	Х		X		
16:00	614	252	Х		X	X	
17:00	612	169	Х		X	X	
18:00	350	127					
19:00	152	75					
20:00	92	44					
21:00	62	41			\		

Hours Met: 0 hours 2 hours 4 hours 5 hours 0 hours Volume Requirements: 500 **750** 600 400 MAJOR: 150 75 120 60 MINOR:

WARRANT 1	Yes		No
Warrant 1 is met if any of the fo	ollowing Conditi	ions are r	net:
Condition A MINIMUM VEHICULAR VOLUME	4 hours	Yes	No
Condition B INTERRUPTION OF CONTINUOUS T	0 hours	Yes	No
Condition A/B COMBINATION OF WARRANTS	2 hours	Yes	No
WARRANT 2 FOUR-HOUR VOLUME	Yes	1 hours	No
WARRANT 3 PEAK-HOUR VOLUME	Yes	0 hours	No
WARRANT 4 PEDESTRIAN VOLUME	Yes	0 hours	No
WARRANT 5 SCHOOL CROSSING	Yes		No

Review Information

Counts Used: IDOT

Count Date(s): 12/06/22 (AM) + 12/06/22 (PM)

Date Reviewed : July 13, 2023 Reviewed By : KRS

Traffic Signal Approved:

Comments

	2016	2017	2018	2019	2020
TOTAL NUMBER OF ACCIDENTS:	7	9	6	3	3
NUMBER CORRECTABLE ACCIDENTS:	3	5	5	3	1
TRIED LESS RESTRICTIVE METHODS?					
ARE VOLUME REQUIREMENTS MET?					



WARRANT 6

WARRANT 7

Yes

Yes



No

No

5 hours No

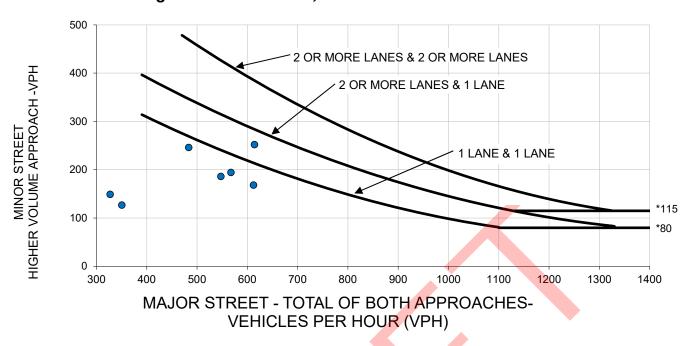
WARRANT 9
Intersection Near a Grade Crossing

Yes



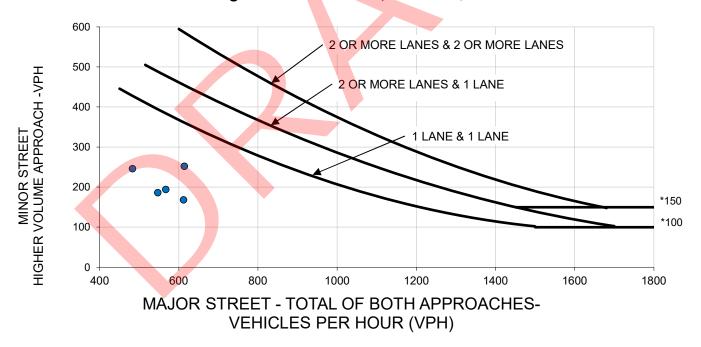
STOP OR YIELD CONTROLLED LEG WITH GRADE CROSSING:	NORTH		
D (clear storage distance) =			
	#	%	Adj. Factor
RAIL TRAFFIC PER DAY =		-	1.00
HIGH OCCUPANCY BUSSES PER HOUR =		0%	1.00
TRUCKS PER HOUR =		0.0%	0.50
OVERALL ADJUSTMENT FACTOR =		0.50	

Figure 4C-1. Warrant 2, Four Hour Vehicular Volume



* Note: 115 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 80 vph applies as the lower threshold volume for a minor-street approach with one lane.

Figure 4C-3 Warrant 3, Peak Hour



* Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

MULTI-WAY STOP WARRANT

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT #1

SRA:

2018 2019 2020

3

3

6

(YES)

9

5 Correctable Accidents Within A 12-month Period?

(NO)

INTERSECTION: Thatcher Avenue & Washington Blvd

MUNICPALITY / TOWNSHIP: River Forest

SPEED LIMIT OF MAJOR ROUTE: 25 mph

NUMBER OF LANES ON MAJOR APPROACH: 1

PROPOSED 3-WAY OR 4-WAY:	4-WAY

NUMBER OF LANES ON MINOR APPROACH:

COUNTY: Cook

ACCIDENT DATA

TOTAL NUMBER OF ACCIDENTS

NUMBER CORRECTABLE ACCIDENTS

ACCIDENT EXPERIENCE 2016 2017

ACCIDENT WARRANT

(No Volume Requirement)

VOLUME WARRANT

3 (INCLUDING LEFT- AND RIGHT-TURN AS WELL AS RIGHT-ANGLE COLLISIONS)

	TRAF	FIC VOLUMES		CHECK ANY HO	OUF	RS WHICH MEET
				THE FOLLOWING	G F	REQUIREMENTS:
	MAJOR STREET	MINOR	STREET			COMBINATION
HOUR	VEHICLES ENTERING	VEHICLES ENTERING	PEDS OR BIKES	HOURS		OF
BEGIN	(BOTH APPROACHES)	(BOTH APPROACHES)	,	MET		WARRANTS
			N/C = NOT COUNTED	100%		80%
6:00	209	216	N/C			
7:00	547	386	N/C	Χ		Х
8:00	483	474	N/C	Χ		X
9:00	215	240	N/C			
10:00	195	199	N/C			
11:00	194	199	N/C			
12:00	226	238	N/C			
13:00	243	241	N/C			X
14:00	327	299	N/C	Χ		X
15:00	567	427	N/C	Χ	1	X
16:00	614	461	N/C	Χ		X
17:00	612	368	N/C	Х		X
18:00	350	247	N/C	Х		X
19:00	152	135	N/C			
20:00	92	80	N/C			
21:00	62	70	N/C			

Hours Met: 8 hours 7 hours

MAJOR ENTERING: 300 240

VOLUME

REQUIREMENTS: MINOR ENTERING: 200 160

INCLUDING ANY PEDS

COMBINATION OF WARRANTS (REDUCED TO 80%)

Are Volume Requirements Met For 8 Hours?

4 Correctable Accidents Within A 12-month Period?

YES

NO

Are Volume Requirements Met For 8 Hours?

YES 8 hours NO

ARE BOTH CRITERIA MET?

(YES)

NO

YES 7 hours NO

Review Information

Counts Used: IDOT

Count Date(s): 12/06/22 (AM) + 12/06/22 (PM)

Date Reviewed: July 13, 2023

Reviewed By: KRS

Comments

IS A MULTI-WAY STOP WARRANTED?

YES

NO





Traffic Calming Toolbox Scoring Sheets





Measure	Criteria for assigning a numerical score to traffic problems	Points
Crash History	1-3 crashes in a 5 year period = 5 points 4-10 crashes in a 5 year period = 10 points More than 10 crashes in a 5 year period = 15 points	0-20 pts
	any crash involving a pedestrian/cyclist €+5 points	20
Vehicle Speed	85th percentile speed is not over the speed limit = 0 points 85th percentile speed is 2 mph over the speed limit = 3 points 85th percentile speed is 4 mph over the speed limit = 6 points 85th percentile speed is 6 mph over the speed limit = 9 points	0-20 pts
	85th percentile speed is 8 mph over the speed limit = 12 points	Score:
	85th percentile speed is 10 mph over the speed limit = 15 points Outlier Speed 20+ mph above posted speed limit + 5 points	20
	ADT < 750 = 0 points ADT = 751 - 1,350 = 5 points	0-20 pts
Vehicle Volume	ADT = 1,351 - 1,950 = 10 points	Score:
	ADT = 1,951 - 2,550 = 15 points ADT > 2,550 € 20 points	20
Pedestrian Traffic Generators	Any school, park, library, church, CTA station more than 2 blocks (1,320 ft.) away = 0 points Any school, park, library, church, CTA station 1-2 blocks (1,320 ft.) away = 5 points Any school, park, library, church, CTA station 1 block (660 ft.) or less away =	0-20 pts
	10 points Three or more overlapping 1-block areas = +10 points	Score:
	Three or more overlapping 2-block areas = +5 points	5
Dila Dantas (May Dila	Not identified as a proposed bike route = 0 points	0-10 pts
	Identified as a Marked Shared Lane = 5 points Identified as a Dedicated Bike Lane = 10 points	Score:
Houtes	*Per Village Bicycle Plan published in 2019	5
Community	No Petition = 0 points Local Petition (0-75% residents on block) = 5 points Local Petition (75%+ of residents on block) = 10 points	0-10 pts
Community Interest	Village Petition (0-10% of Village population) = 5 points	Score:
	Village Petition (10%+ of Village population) = 10 points	0
Intersection 1:	Thatcher Ave	Total:
	Washington Blud	70
Intersection 2:	Gale Ave	



Measure	Criteria for assigning a numerical score to traffic problems	Points
6 1 111 1	1-3 crashes in a 5 year period = 5 points 4-10 crashes in a 5 year period = 10 points	0-20 pts.
Crash History	More than 10 crashes in a 5 year period = 15 points any crash involving a pedestrian/cyclist = +5 points	Score:
Vehicle Speed	85th percentile speed is not over the speed limit = 0 points 85th percentile speed is 2 mph over the speed limit = 3 points 85th percentile speed is 4 mph over the speed limit = 6 points 85th percentile speed is 6 mph over the speed limit = 9 points 85th percentile speed is 8 mph over the speed limit = 12 points	0-20 pts.
	85th percentile speed is 10 mph over the speed limit = 15 points Outlier Speed 20+ mph above posted speed limit = +5 points	Score:
Vehicle Volume	ADT < 750 = 0 points ADT = 751 - 1,350 = 5 points ADT = 1,351 - 1,950 = 10 points	0-20 pts.
venicle volume	ADT = 1,951 - 2,550 = 15 points ADT > 2,550 = 20 points	Score:
Pedestrian Traffic Generators	Any school, park, library, church, CTA station more than 2 blocks (1,320 ft.) away = 0 points Any school, park, library, church, CTA station 1-2 blocks (1,320 ft.) away = 5 points Any school, park, library, church, CTA station 1 block (660 ft.) or less away = 10 points	0-20 pts.
	Three or more overlapping 1-block areas = +10 points Three or more overlapping 2-block areas = +5 points	Score:
Bike Routes / Non-Bike	Not identified as a proposed bike route = 0 points Identified as a Marked Shared Lane = 5 points	0-10 pts.
Routes	Identified as a Dedicated Bike Lane = 10 points *Per Village Bicycle Plan published in 2019	Score:
Community Interest	No Petition = 0 points Local Petition (0-75% residents on block) = 5 points Local Petition (75%+ of residents on block) = 10 points	0-10 pts.
community interest	Village Petition (10%+ of Village population) = 5 points Village Petition (10%+ of Village population) = 10 points	Score:
Intersection 1:	Gale Ave	Total:
Segment: Intersection 2:	Washington Blud Keystone Ave	75



Measure	Criteria for assigning a numerical score to traffic problems	Points
Crash History	1-3 crashes in a 5 year period = 5 points 4-10 crashes in a 5 year period = 10 points More than 10 crashes in a 5 year period = 15 points	0-20 pts
	any crash involving a pedestrian/cyclist = +5 points	15
Vehicle Speed	5th percentile speed is not over the speed limit = 0 points 5th percentile speed is 2 mph over the speed limit = 3 points 5th percentile speed is 4 mph over the speed limit = 6 points 5th percentile speed is 6 mph over the speed limit = 9 points 5th percentile speed is 8 mph over the speed limit = 12 points	0-20 pt:
	85th percentile speed is 10 mph over the speed limit = 12 points Outlier Speed 20+ mph above posted speed limit = +5 points	Score:
	ADT < 750 = 0 points ADT = 751 - 1,350 = 5 points	0-20 pt
Vehicle Volume	ADT = 1,351 - 1,950 = 10 points ADT = 1,951 - 2,550 = 15 points	Score:
	ADT > 2,550 = 20 points	26
Generators	Any school, park, library, church, CTA station more than 2 blocks (1,320 ft.) away = 0 points Any school, park, library, church, CTA station 1-2 blocks (1,320 ft.) away = 5 points Any school, park, library, church, CTA station 1 block (660 ft.) or less away = 10 points	0-20 pts
	Three or more overlapping 1-block areas = +10 points Three or more overlapping 2-block areas = +5 points	Score:
	Not identified as a proposed bike route = 0 points Identified as a Marked Shared Lane + 5 points	0-10 pts
Routes	Identified as a Marked Shared Lane = 5 points Identified as a Dedicated Bike Lane = 10 points *Per Village Bicycle Plan published in 2019	Score:
	No Petition = 0 points Local Petition (0-75% residents on block) = 5 points	0-10 pts
	Local Petition (75%+ of residents on block) = 10 points Village Petition (0-10% of Village population) = 5 points Village Petition (10%+ of Village population) = 10 points	Score:
Intersection 1:	Keystone Ave	Total:
Segment:	Washington Blud Forest Ave	75



Measure	Criteria for assigning a numerical score to traffic problems	Points
Cursh History	1-3 crashes in a 5 year period = 5 points 4-10 crashes in a 5 year period = 10 points	0-20 pts.
Crash History	More than 10 crashes in a 5 year period = 15 points any crash involving a pedestrian/cyclist = +5 points	Score:
		10
Vehicle Speed	85th percentile speed is not over the speed limit = 0 points 85th percentile speed is 2 mph over the speed limit = 3 points 85th percentile speed is 4 mph over the speed limit = 6 points 85th percentile speed is 6 mph over the speed limit = 9 points 85th percentile speed is 8 mph over the speed limit = 12 points	0-20 pts.
	85th percentile speed is 10 mph over the speed limit = (5 points)	Score:
	Outlier Speed 20+ mph above posted speed limit ++5 points	70
V 11.1.1.1	ADT < 750 = 0 points ADT = 751 - 1,350 = 5 points	0-20 pts.
Vehicle Volume	ADT = 1,351 - 1,950 = 10 points ADT = 1,951 - 2,550 = 15 points	Score:
	ADT > 2,550 = 0 points	20
Pedestrian Traffic Generators	Any school, park, library, church, CTA station more than 2 blocks (1,320 ft.) away = 0 points Any school, park, library, church, CTA station 1-2 blocks (1,320 ft.) away = 5 points Any school, park, library, church, CTA station 1 block (660 ft.) or less away = 10 points	0-20 pts.
	Three or more overlapping 1-block areas = +10 points	Score:
	Three or more overlapping 2-block areas = +5 points	20
	Not identified as a proposed bike route = 0 points Identified as a Marked Shared Lane = 5 points	0-10 pts.
	Identified as a Dedicated Bike Lane = 10 points	Score:
	*Per Village Bicycle Plan published in 2019	5
	No Petition = 0 points Local Petition (0-75% residents on block) = 5 points Local Petition (75%+ of residents on block) = 10 points	0-10 pts.
	Village Petition (0-10% of Village population) = 5 points	Score:
	Village Petition (10%+ of Village population) = 10 points	0
Intersection 1:		Total:
Segment:	Washington Blud	75
Intersection 2:	tark Ave	, /



1-3 crashes in a 5 year period = 5 points 1-2 crashes in a 5 year period = 15 points 1-2 crashes in a 5 year period = 10 points 1-2 crashes in a 5 year period = 15 points 1-2 crashes in a 5 y	Measure	Criteria for assigning a numerical score to traffic problems	Points
Crash History 4-10 crashes in a 5 year period = 10 points More than 10 crashes in a 5 year period = 15 points any crash involving a pedestrian/cyclist = +5 points 85th percentile speed is not over the speed limit = 0 points 85th percentile speed is 2 mph over the speed limit = 0 points 85th percentile speed is 6 mph over the speed limit = 0 points 85th percentile speed is 6 mph over the speed limit = 12 points 85th percentile speed is 8 mph over the speed limit = 12 points 85th percentile speed is 8 mph over the speed limit = 12 points 85th percentile speed is 8 mph over the speed limit = 15 points Outlier Speed 20+ mph above posted speed limit = 15 points 0-20 pts. ADT < 750 = 0 points ADT = 751 - 1,350 = 5 points ADT = 1,951 - 2,950 = 15 points ADT = 1,951 - 2,950 = 15 points ADT > 2,950 = 20 points ADT > 2,950 = 20 points ADT > 2,950 = 20 points ADT > 2,950 = 20 points ADT > 2,950 = 20 points ADT > 2,950 = 20 points Any school, park, library, church, CTA station more than 2 blocks (1,320 ft.) away = 5 points Any school, park, library, church, CTA station 1 block (660 ft.) or less away = (0 points Any school, park, library, church, CTA station 1 blocks (660 ft.) or less away = (0 points) Three or more overlapping 1-block areas = +5 points Bike Routes / Non-Bike Routes Not identified as a proposed bike route = 0 points Identified as a Marked Shared Lane 5 points Identified as a Dedicated Bike Lane = 10 points 10 -10 pts. Community Interest Community Interest No Petition = 0 points Local Petition (0-75% residents on block) = 5 points Village Petition (0-10% of Village population) = 5 points Village Petition (10%+ of Village population) = 5 points Village Petition (10%+ of Village population) = 10 points 10 -10 pts. Score: Total: Park Away Segment: 25	MEdanie		
Crash History More than 10 crashes in a 5 year period = 15 points any crash involving a pedestrian/cyclist = +5 points Co			
85th percentile speed is not over the speed limit = 0 points 85th percentile speed is 2 mph over the speed limit = 6 points 85th percentile speed is 6 mph over the speed limit = 9 points 85th percentile speed is 6 mph over the speed limit = 9 points 85th percentile speed is 8 mph over the speed limit = 12 points 85th percentile speed is 10 mph over the speed limit = 12 points 85th percentile speed is 10 mph over the speed limit = 15 points Outlier Speed 20+ mph above posted speed limit = 15 points 85th percentile speed is 10 mph over the speed limit = 15 points 85th percentile speed is 6 mph over the speed limit = 15 points 85th percentile speed is 6 mph over the speed limit = 10 points 85th percentile speed is 6 mph over the speed limit = 9 points 85th percentile speed is 6 mph over the speed limit = 9 points 85th percentile speed is 6 mph over the speed limit = 9 points 85th percentile speed is 6 mph over the speed limit = 9 points 85th percentile speed is 6 mph over the speed limit = 9 points 85th percentile speed is 6 mph over the speed limit = 9 points 85th percentile speed is 6 mph over the speed limit = 9 points 85th percentile speed is 6 mph over the speed limit = 9 points 85th percentile speed is 6 mph over the speed limit = 12 points 85th percentile speed is 6 mph over the speed limit = 12 points 85th percentile speed is 6 mph over the speed limit = 12 points 85th percentile speed is 6 mph over the speed limit = 12 points 85th percentile speed is 6 mph over the speed limit = 12 points 85th percentile speed is 6 mph over the speed limit = 12 points 85th percentile speed is 6 mph over the speed limit = 12 points 85th percentile speed is 6 mph over the speed limit = 12 points 85core: 90-20 pts. 90-20 p	Crash History		Score:
85th percentile speed is not over the speed limit = 0 points 85th percentile speed is 2 mph over the speed limit = 3 points 85th percentile speed is 4 mph over the speed limit = 6 points 85th percentile speed is 6 mph over the speed limit = 12 points 85th percentile speed is 6 mph over the speed limit = 12 points 85th percentile speed is 8 mph over the speed limit = 15 points 0 outlier Speed 20+ mph above posted speed limit = 15 points ADT = 751 - 1,350 = 5 points ADT = 1,351 - 1,950 = 10 points ADT = 1,351 - 1,950 = 10 points ADT = 1,351 - 1,550 = 10 points ADT = 1,951 - 2,550 = 15 points ADT > 2,550 = 20 points ADT > 2,550 = 20 points ADT > 2,550 = 20 points ADT > 2,550 = 20 points ADT > 2,550 = 20 points Any school, park, library, church, CTA station more than 2 blocks (1,320 ft.) away = 0 points Any school, park, library, church, CTA station 1-2 blocks (1,320 ft.) away = 0 points Any school, park, library, church, CTA station 1 block (660 ft.) or less away = 0 points Three or more overlapping 1-block areas = 10 points Three or more overlapping 2-block areas = +5 points Not identified as a proposed bike route = 0 points Identified as a Marked Shared Lane points Identified as a Dedicated Bike Lane = 10 points Per Village Bicycle Plan published in 2019 No Petition = 0 points Local Petition (07-5% residents on block) = 5 points Village Petition (07-0% of Village population) = 5 points Village Petition (10%+ of Village population) = 5 points Village Petition (10%+ of Village population) = 10 points Village Petition (10%+ of Village population) = 10 points Village Petition (10%+ of Village population) = 10 points		any crash involving a pedestrian/cyclist = +5 points	10
Outlier Speed 20+ mph above posted speed limit = 15 points ADT < 750 = 0 points ADT = 751 - 1,350 = 5 points ADT = 1,351 - 1,950 = 10 points ADT = 1,951 - 2,550 = 15 points ADT > 2,550 = 20 points ADT > 2,550 = 20 points Any school, park, library, church, CTA station more than 2 blocks (1,320 ft.) away = 0 points Any school, park, library, church, CTA station 1-2 blocks (1,320 ft.) away = 5 points Any school, park, library, church, CTA station 1 block (660 ft.) or less away = 10 points Any school, park, library, church, CTA station 1 block (660 ft.) or less away = 10 points Three or more overlapping 1-block areas = 10 points Three or more overlapping 2-block areas = +5 points Not identified as a proposed bike route = 0 points Identified as a Marked Shared Lane \$ points Identified as a Dedicated Bike Lane = 10 points Local Petition (0-75% residents on block) = 5 points Local Petition (0-75% residents on block) = 5 points Village Petition (0-10% of Village population) = 5 points Village Petition (10%+ of Village population) = 10 points Intersection 1: Park Ave Segment: Lashing for Block Total: Total:	Vehicle Speed	85th percentile speed is 2 mph over the speed limit = 3 points 85th percentile speed is 4 mph over the speed limit = 6 points 85th percentile speed is 6 mph over the speed limit = 9 points 85th percentile speed is 8 mph over the speed limit = 12 points	0-20 pts.
ADT < 750 = 0 points ADT = 751 - 1,350 = 5 points ADT = 1,351 - 1,950 = 10 points ADT = 1,951 - 2,550 = 15 points ADT > 2,550 = 0 points ADT > 2,550 = 0 points ADT > 2,550 = 0 points ADT > 2,550 = 0 points ADT > 2,550 = 0 points ADT > 2,550 = 0 points Any school, park, library, church, CTA station more than 2 blocks (1,320 ft.) away = 0 points Any school, park, library, church, CTA station 1-2 blocks (1,320 ft.) away = 5 points Any school, park, library, church, CTA station 1 block (660 ft.) or less away = 0 points Any school, park, library, church, CTA station 1 block (660 ft.) or less away = 0 points Three or more overlapping 1-block areas = 10 points Three or more overlapping 2-block areas = +5 points Identified as a proposed bike route = 0 points Identified as a Dedicated Bike Lane = 10 points Identified as a Dedicated Bike Lane = 10 points Per Village Bicycle Plan published in 2019 No Petition = 0 points Local Petition (0-75% residents on block) = 5 points Community Interest Village Petition (0-10% of Village population) = 5 points Village Petition (10%+ of Village population) = 10 points Village Petition (10%+ of Village population) = 10 points Intersection 1: Park Ave Segment: Uashing for Blvd			70
ADT = 1,951 - 2,550 = 15 points ADT > 2,550 = 00 points Any school, park, library, church, CTA station more than 2 blocks (1,320 ft.) away = 0 points Any school, park, library, church, CTA station 1-2 blocks (1,320 ft.) away = 5 points Any school, park, library, church, CTA station 1 block (660 ft.) or less away = 10 points Three or more overlapping 1-block areas = 10 points Three or more overlapping 2-block areas = +5 points Not identified as a proposed bike route = 0 points Identified as a Marked Shared Lane 5 points Identified as a Dedicated Bike Lane = 10 points Identified as a Dedicated Bike Lane = 10 points Fer Village Bicycle Plan published in 2019 No Petition = 0 points Local Petition (0-75% residents on block) = 5 points Local Petition (0-10% of Village population) = 5 points Village Petition (10%+ of Village population) = 10 points Intersection 1: Park Ave Segment: Uashing for Blvd Total:	Vahicla Valuma	ADT = 751 - 1,350 = 5 points	
ADT > 2,550 = 0 points Any school, park, library, church, CTA station more than 2 blocks (1,320 ft.) away = 0 points Any school, park, library, church, CTA station 1-2 blocks (1,320 ft.) away = 5 points Any school, park, library, church, CTA station 1 block (660 ft.) or less away = 10 points Any school, park, library, church, CTA station 1 block (660 ft.) or less away = 10 points Three or more overlapping 1-block areas = +10 points Three or more overlapping 2-block areas = +5 points Not identified as a proposed bike route = 0 points ldentified as a Marked Shared Lane 5 points ldentified as a Dedicated Bike Lane = 10 points Per Village Bicycle Plan published in 2019 No Petition = 0 points Local Petition (0-75% residents on block) = 5 points Village Petition (0-10% of Village population) = 5 points Village Petition (10%+ of Village population) = 10 points Village Petition (10%+ of Village population) = 10 points Score: Total: Segment: Vashing for Blvd Total:	venicie volume		Score:
Any school, park, library, church, CTA station 1-2 blocks (1,320 ft.) away = 5 points Any school, park, library, church, CTA station 1 block (660 ft.) or less away = 10 points Three or more overlapping 1-block areas = 10 points Three or more overlapping 2-block areas = +5 points Not identified as a proposed bike route = 0 points Identified as a Marked Shared Lane 5 points Identified as a Dedicated Bike Lane = 10 points Identified as a Dedicated Bike Lane = 10 points Per Village Bicycle Plan published in 2019 No Petition = 0 points Local Petition (0-75% residents on block) = 5 points Village Petition (0-10% of Village population) = 5 points Village Petition (10%+ of Village population) = 10 points Intersection 1: Segment: Vashing for Blvd O-20 pts. 0-20 pts. 0-20 pts. 0-10 pts. Score: 5 O-10 pts. Total: 75 Total:			w
Three or more overlapping 1-block areas = +10 points Three or more overlapping 2-block areas = +5 points Not identified as a proposed bike route = 0 points Identified as a Marked Shared Lane = 5 points Identified as a Dedicated Bike Lane = 10 points *Per Village Bicycle Plan published in 2019 No Petition = 0 points Local Petition (0-75% residents on block) = 5 points Village Petition (0-10% of Village population) = 5 points Village Petition (10%+ of Village population) = 10 points Intersection 1: Park Ave Segment: Vashing for Blvd Total:		away = 0 points Any school, park, library, church, CTA station 1-2 blocks (1,320 ft.) away = 5 points Any school, park, library, church, CTA station 1 block (660 ft.) or less away =	0-20 pts.
Three or more overlapping 2-block areas = +5 points Not identified as a proposed bike route = 0 points Identified as a Marked Shared Lane 5 points Identified as a Dedicated Bike Lane = 10 points *Per Village Bicycle Plan published in 2019 No Petition = 0 points Local Petition (0-75% residents on block) = 5 points Local Petition (75%+ of residents on block) = 10 points Village Petition (0-10% of Village population) = 5 points Village Petition (10%+ of Village population) = 10 points Intersection 1: Segment: Vashing for Blvd Total:			Score:
Bike Routes / Non-Bike Routes Identified as a Marked Shared Lane 5 points Identified as a Dedicated Bike Lane 10 points *Per Village Bicycle Plan published in 2019 5 No Petition 0 points Local Petition (0-75% residents on block) 5 points Community Interest Local Petition (75% + of residents on block) 10 points Community Interest Village Petition (0-10% of Village population) 5 points Community Interest Village Petition (10% + of Village population) 10 points Community Interest Village Petition (10% + of Village population) 10 points Community Interest Village Petition (10% + of Village population) 10 points Community Interest Village Petition (10% + of Village population) 10 points Community Interest Village Petition (10% + of Village population) 10 points Community Interest Village Petition (10% + of Village population) 10 points Community Interest Village Petition (10% + of Village population) 10 points Community Interest Village Petition (10% + of Village population) 10 points Community Interest Village Petition (10% + of Village population) 10 points Community Interest Comm			w
Routes Identified as a Dedicated Bike Lane = 10 points *Per Village Bicycle Plan published in 2019 No Petition = 0 points Local Petition (0-75% residents on block) = 5 points Local Petition (75%+ of residents on block) = 10 points Village Petition (0-10% of Village population) = 5 points Village Petition (10%+ of Village population) = 10 points Intersection 1: Park Ave Segment: Washing for Blvd Total:	Bike Routes / Non-Bike		0-10 pts.
Community Interest Local Petition (0-75% residents on block) = 5 points Local Petition (75%+ of residents on block) = 10 points Village Petition (0-10% of Village population) = 5 points Village Petition (10%+ of Village population) = 10 points Intersection 1: Park Ave Segment: Segment: Local Petition (0-75% residents on block) = 5 points Village Petition (0-10% of Village population) = 5 points Total:		Identified as a Dedicated Bike Lane = 10 points	
Village Petition (0-10% of Village population) = 5 points Village Petition (10%+ of Village population) = 10 points Intersection 1: Park Ave Segment: Washington Blvd 75	Community Interest	Local Petition (0-75% residents on block) = 5 points	0-10 pts.
Intersection 1: Park Ave Segment: Washington Blvd 75	sermanney interest	Village Petition (0-10% of Village population) = 5 points	
Segment: Washington Blvd	Intersection 1:		
			わ



Measure	Criteria for assigning a numerical score to traffic problems	Points
	1-3 crashes in a 5 year period = 5 points	0-20 pts.
Crash History	4-10 crashes in a 5 year period = 10 points	Score:
	More than 10 crashes in a 5 year period 15 points any crash involving a pedestrian/cyclist = +5 points	15
		' '
Vehicle Speed	85th percentile speed is not over the speed limit = 0 points 85th percentile speed is 2 mph over the speed limit = 3 points 85th percentile speed is 4 mph over the speed limit = 6 points 85th percentile speed is 6 mph over the speed limit = 9 points	0-20 pts.
	85th percentile speed is 8 mph over the speed limit = 12 points 85th percentile speed is 10 mph over the speed limit = 15 points	Score:
	Outlier Speed 20+ mph above posted speed limit +5 points	20
	ADT < 750 = 0 points ADT = 751 - 1,350 = 5 points	0-20 pts.
Vehicle Volume	ADT = 1,351 - 1,950 = 10 points ADT = 1,951 - 2,550 = 15 points	Score:
	ADT = 1,951 - 2,550 = 15 points ADT > 2,550 = 20 points	20
Pedestrian Traffic Generators	Any school, park, library, church, CTA station more than 2 blocks (1,320 ft.) away = 0 points Any school, park, library, church, CTA station 1-2 blocks (1,320 ft.) away = 5 points Any school, park, library, church, CTA station 1 block (660 ft.) or less away = 10 points Three or more overlapping 1-block areas = +10 points Three or more overlapping 2-block areas = +5 points	0-20 pts.
		15
Bike Routes / Non-Bike	Not identified as a proposed bike route = 0 points Identified as a Marked Shared Lane = 5 points	0-10 pts.
	Identified as a Dedicated Bike Lane = 10 points	Score:
	*Per Village Bicycle Plan published in 2019	5
	No Petition = 0 points Local Petition (0-75% residents on block) = 5 points Local Petition (75%+ of residents on block) = 10 points	0-10 pts.
	Village Petition (75%+ of residents on block) = 10 points Village Petition (0-10% of Village population) = 5 points	
	Village Petition (10%+ of Village population) = 10 points	0
Intersection 1:	Franklin Ave	Total:
Segment:	Washington Blud	75
intersection 2:	Ashland Ave	



Trond Meritinge - Might Parare						
Measure	Criteria for assigning a numerical score to traffic problems	Points				
Crash History	1-3 crashes in a 5 year period = 5 points 4-10 crashes in a 5 year period = 10 points					
	More than 10 crashes in a 5 year period = 15 points any crash involving a pedestrian/cyclist = +5 points					
Vehicle Speed	85th percentile speed is 8 mph over the speed limit = 12 points 85th percentile speed is 10 mph over the speed limit = 15 points Outlier Speed 20+ mph above posted speed limit = +5 points					
Vehicle Volume	ADT < 750 = 0 points ADT = 751 - 1,350 = 5 points ADT = 1,351 - 1,950 = 10 points ADT = 1,951 - 2,550 = 15 points					
Pedestrian Traffic Generators	Any school, park, library, church, CTA station more than 2 blocks (1,320 ft.) away = 0 points Any school, park, library, church, CTA station 1-2 blocks (1,320 ft.) away points Any school, park, library, church, CTA station 1 block (660 ft.) or less away = 10 points					
	Three or more overlapping 1-block areas = +10 points Three or more overlapping 2-block areas = +5 points					
Bike Routes / Non-Bike Routes	Not identified as a proposed bike route = 0 points Identified as a Marked Shared Lane = 5 points					
	Identified as a Dedicated Bike Lane = 10 points *Per Village Bicycle Plan published in 2019					
Community Interest	No Petition = 0 points Local Petition (0-75% residents on block) = 5 points Local Petition (75%+ of residents on block) = 10 points					
	Village Petition (0-10% of Village population) = 5 points Village Petition (10%+ of Village population) = 10 points					
	4.11	0				
Segment:	Ashland Ave Washington Blub Lathran Ave	Total: 65				

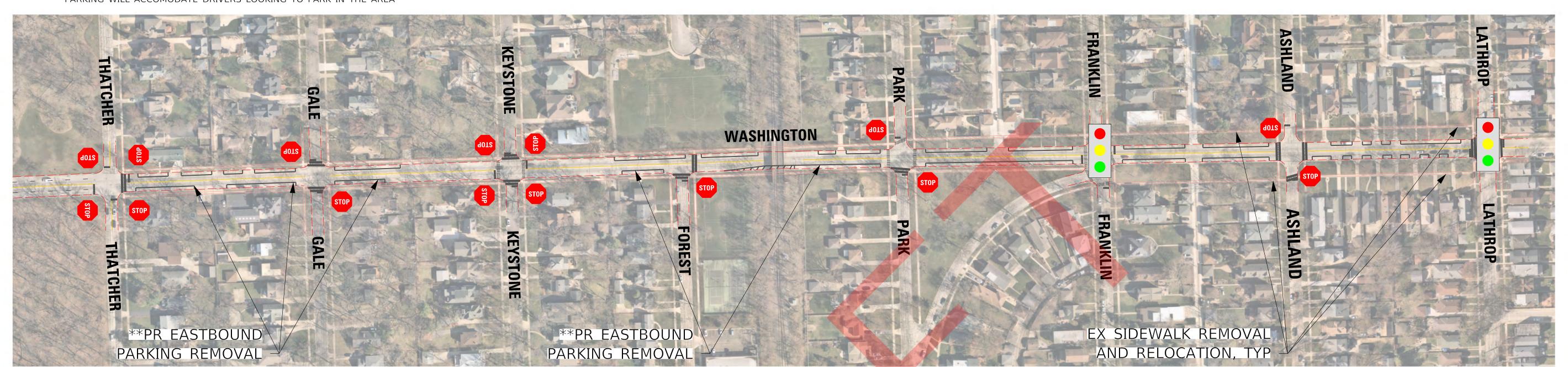




Washington Blvd Exhibits



- * LABELS ARE PROVIDED AT LOCATIONS WITH SIGNIFIGANT CHANGES TO PARKING OR PEDESTRIAN FACILITIES
- ** APPROXIMATELY 35 EASTBOUND PARKING SPOTS ARE BEING REMOVED FROM THE ROAD OR 45% OF ALL EASTBOUND PARKING. IT IS ASSUMED THE REMAINING PARKING SPACES, AS WELL AS, SIDE STREET PARKING WILL ACCOMODATE DRIVERS LOOKING TO PARK IN THE AREA



WASHINGTON BLVD EXISTING

PROPOSED IMPROVEMENTS WEST SECTION:

- I. RAISED INTERSECTIONS: THATCHER AVE & KEYSTONE AVE
- 2. A NEW CROSS SECTION BETWEEN THATCHER AVE AND PARK AVE THAT INCLUDES REMOVING PARKING ALONG THE SOUTH SIDE OF WASHINGTON BLVD AND ADDING ON-STREET BIIKE LANES.
- 3. CURB EXTENSIONS WILL BE PROVIDED ON THE NORTH SIDE OF ALL INTERSECTIONS FROM THATCHER AVE TO FOREST AVE.
- 4. FOREST AVE WILL HAVE A RAISED CROSSWALK INSTALLED ALONG ITS EAST LEG.

PROPOSED IMPROVEMENTS EAST SECTION:

- 1. RAISED INTERSECTIONS: FRANKLIN AVE & LATHROP AVE
- 2. FROM PARK AVE TO LATHROP AVE THE CROSS SECTION WILL REMAIN THE SAME WITH THE ADDITION OF A 2' STRIPED CENTER MEDIAN ALONG WITH CURB EXTENSIONS AT ALL INTERSECTIONS.
- 3. STARTING AT PARK AVE TO THE EAST THE ON-STREET BIKE LANES WILL BE MOVED TO AN OFF-STREET MULTI-USE PATH. TEG CURRENTLY SHOWS THE PATH ON BOTH SIDES OF THE ROAD,
- 4. THE EXISTING SIDEWALK STARTING AT PARK AVE TO THE EAST WILL BE REMOVED IN FAVOR OF THE PR MULTI-USE PATH PLACED 5' FROM THE BACK CURB. STRIPING WILL BE REPLACED WITH NEW ZEBRA STRIPING.



WASHINGTON BLVD PROPOSED

TRAWN BY KRS DATE 8/25/23 NO. DATE DESCRIPTION

CHECKED BY JMY SCALE 1'=120'

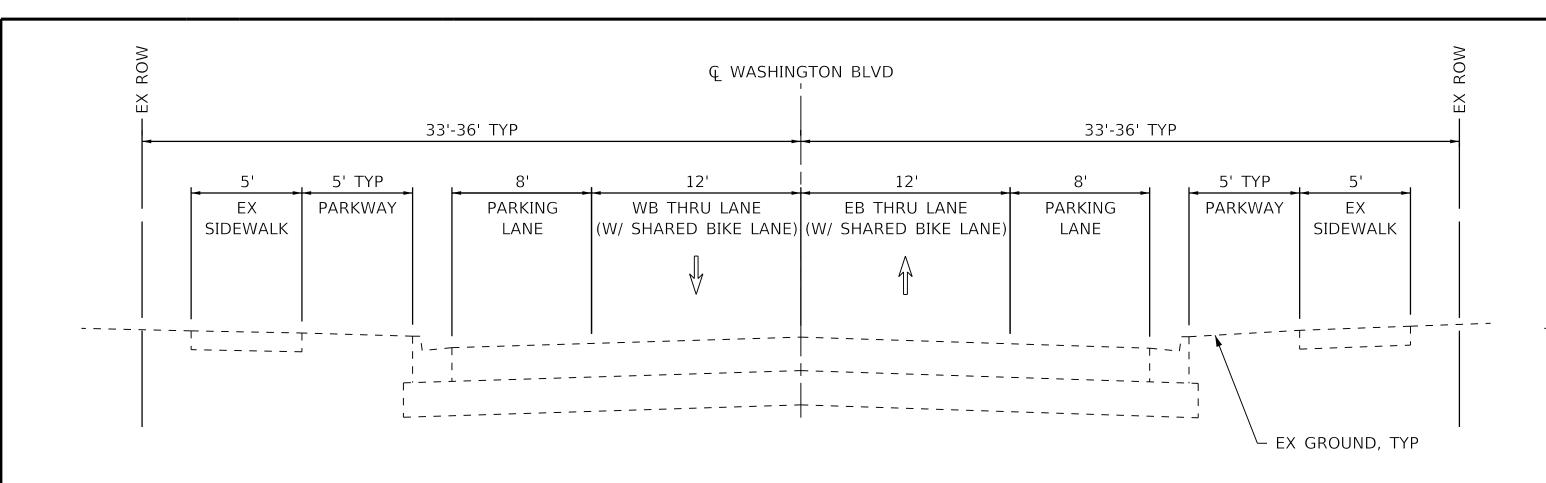


thomas engineering group, Ilc 2625 butterfield road suite 209w oak brook, il 60523 phone: 855-533-1700



WASHINGTON BLVD OVERVIEW

HORIZONTAL SCALE IN FEET

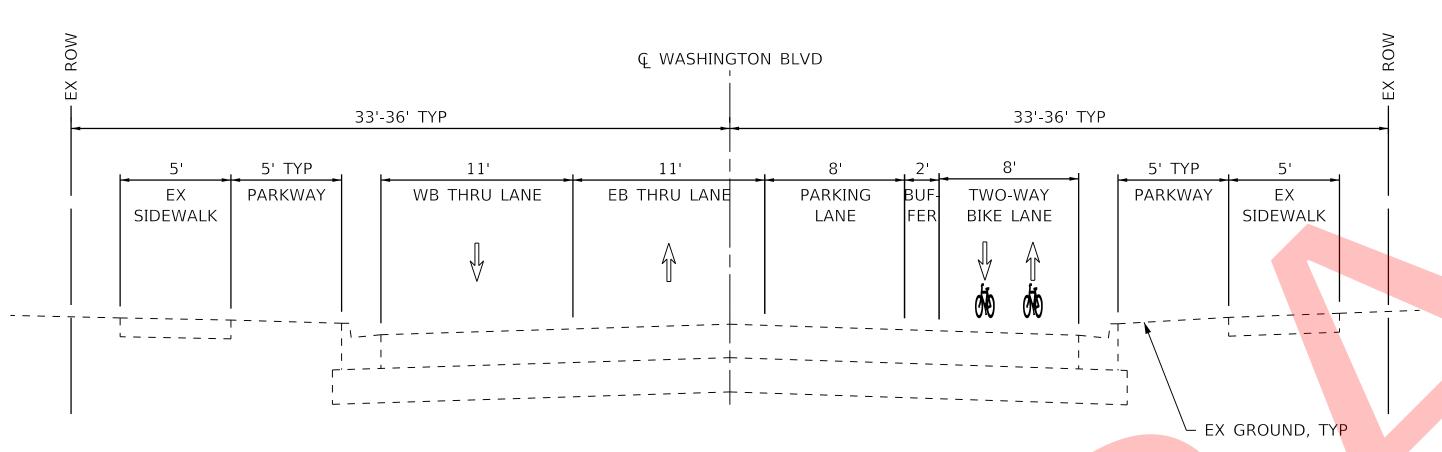


33'-36' TYP 33'-36' TYP 5' TYP WB THRU LANE PARKWAY PARKING BUF BIKE EB THRU LANE PARKWAY SIDEWALK FER LANE SIDEWALK LANE _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ └ EX GROUND, TYP

Q WASHINGTON BLVD

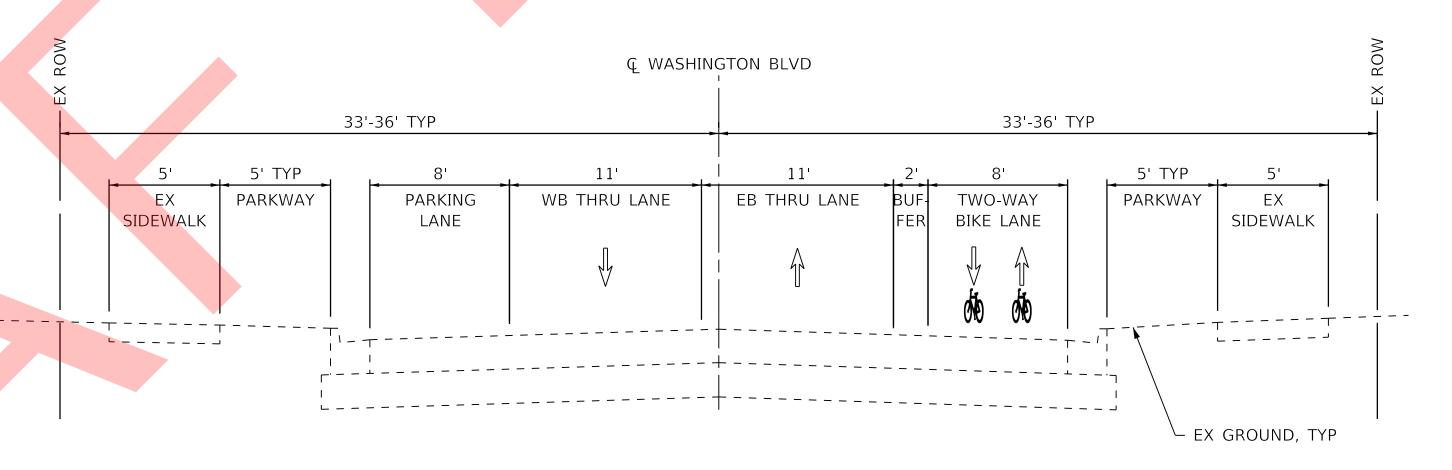
EXISTING WESTERN TYPICAL SECTION

THATCHER AVE - PARK AVE (FACING EAST)



WESTERN ALTERNATIVE 1

THATCHER AVE - PARK AVE (FACING EAST)



WESTERN ALTERNATIVE 2

THATCHER AVE - PARK AVE (FACING EAST)

WESTERN ALTERNATIVE 3

THATCHER AVE - PARK AVE (FACING EAST)

NOTES

- 1. PROPOSED ALTERNATIVES WILL MOVE THE CENTERLINE FROM THE CROWN OF THE ROAD
- 2. PARKING AND BIKE LANES ARE SHOWN IN TEG'S PREFERRED ORIENTATION, BUT WE CAN ACCOMODATE PARKING AND BIKE ON EITHER SIDE PER VILLAGE PREFERENCE.
- 3. PARKING IS INTERMITENT AND BREAKS FOR DRIVEWAY AND INTERSECTIONS. TEG IS NOT PROPOSING ANY NEW PARKING SPACES BEYOND WHAT IS STRIPED IN THE EXISTING CONDITIONS.
- 4. STARTING AT PARK AVE TO THE EAST THE ON-STREET BIKE LANES WILL BE MOVED TO AN OFF-STREET MULTI-USE PATH IF THE OFF-STREET ALTERNATIVE IS CHOSEN.

						REVISIONS		
DRAWN BY	KRS	DATE	8/25/23	NO.	DATE	DESCRIPTION		
CHECKED BY	JMY	SCALE	N.T.S.					
				i				



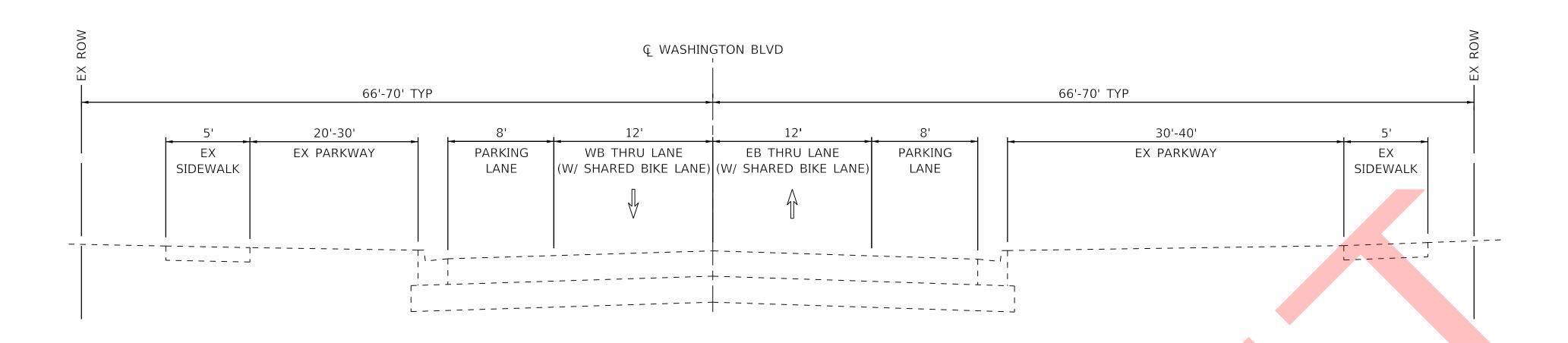
thomas engineering group, llc 2625 butterfield road suite 209w oak brook, il 60523 phone: 855-533-1700



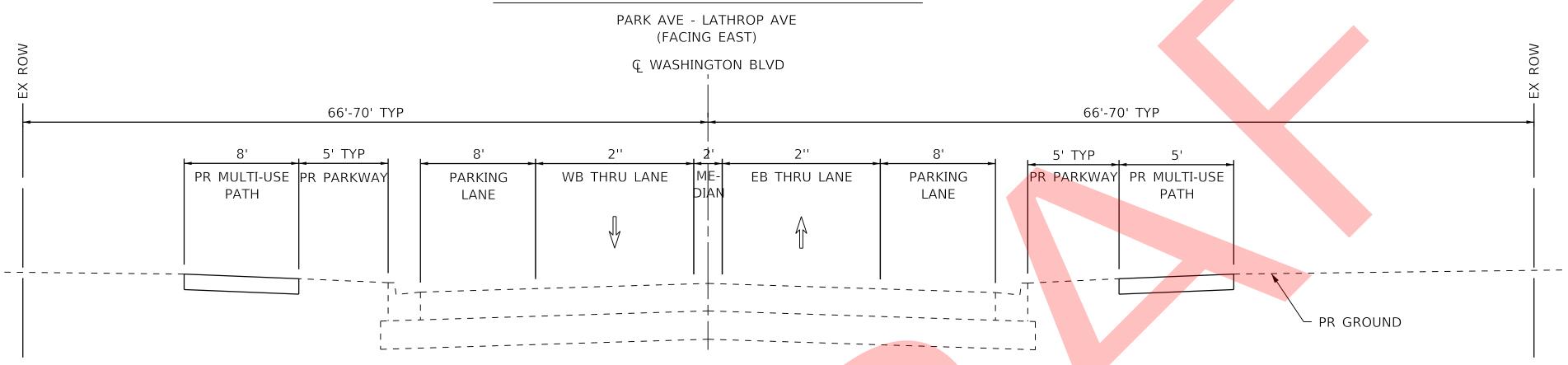
WASHINGTON BLVD WESTERN
TYPICAL SECTIONS

DRAWING NO.

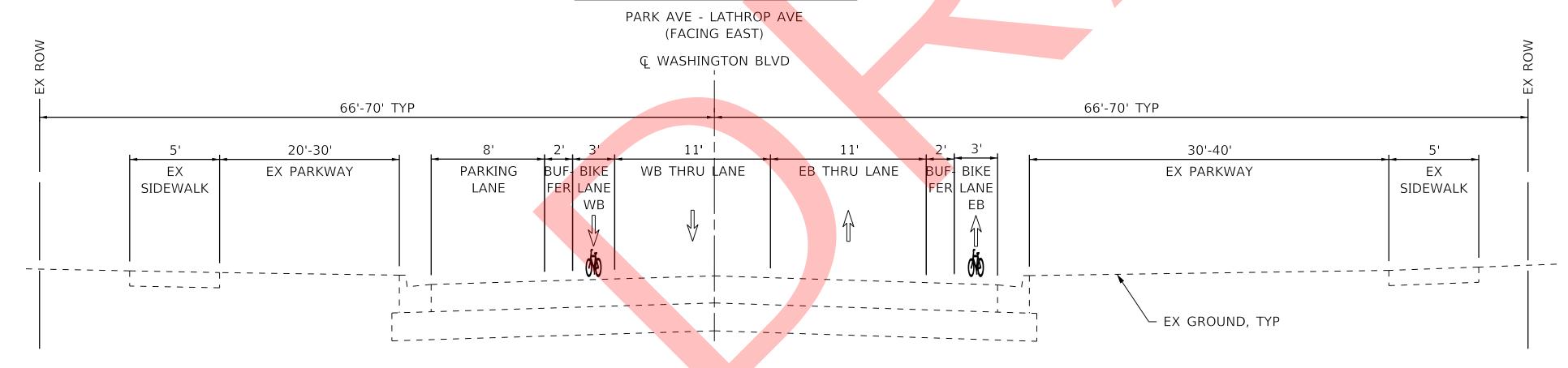
<u>2</u> of <u>14</u>



EXISTING EASTERN TYPICAL SECTION



EASTERN ALTERNATIVE 1



NOTES

- 1. PROPOSED ALTERNATIVES WILL MOVE THE CENTERLINE FROM THE CROWN OF THE ROAD
- 2. PARKING AND BIKE LANES ARE SHOWN IN TEG'S PREFERRED ORIENTATION, BUT WE CAN ACCOMODATE PARKING AND BIKE ON EITHER SIDE PER VILLAGE PREFERENCE.
- 3. PARKING IS INTERMITENT AND BREAKS FOR DRIVEWAY AND INTERSECTIONS.
 TEG IS NOT PROPOSING ANY NEW PARKING SPACES BEYOND WHAT IS
 STRIPED IN THE EXISTING CONDITIONS.
- 1. STARTING AT PARK AVE TO THE EAST THE ON-STREET BIKE LANES WILL BE MOVED TO AN OFF-STREET MULTI-USE PATH IF THE OFF-STREET ALTERNATIVE IS CHOSEN.

EASTERN ALTERNATIVE 2

PARK AVE - LATHROP AVE (FACING EAST)

				REVISIONS			
DRAWN BY	KRS	DATE	8/25/23	NO.	DATE	DESCRIPTION	
CHECKED BY	JMY	SCALE	N.T.S.				



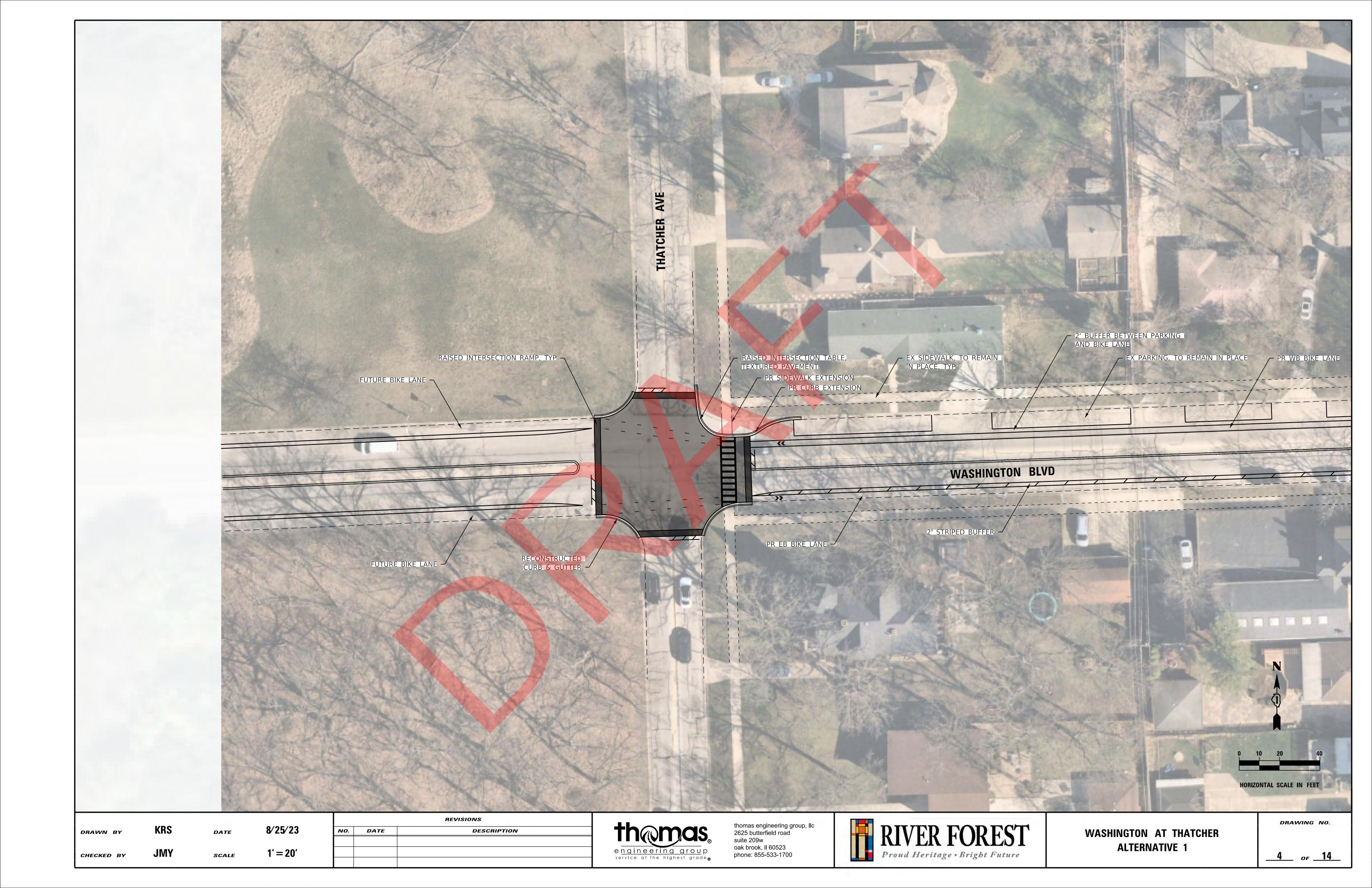
thomas engineering group, Ilc 2625 butterfield road suite 209w oak brook, il 60523 phone: 855-533-1700

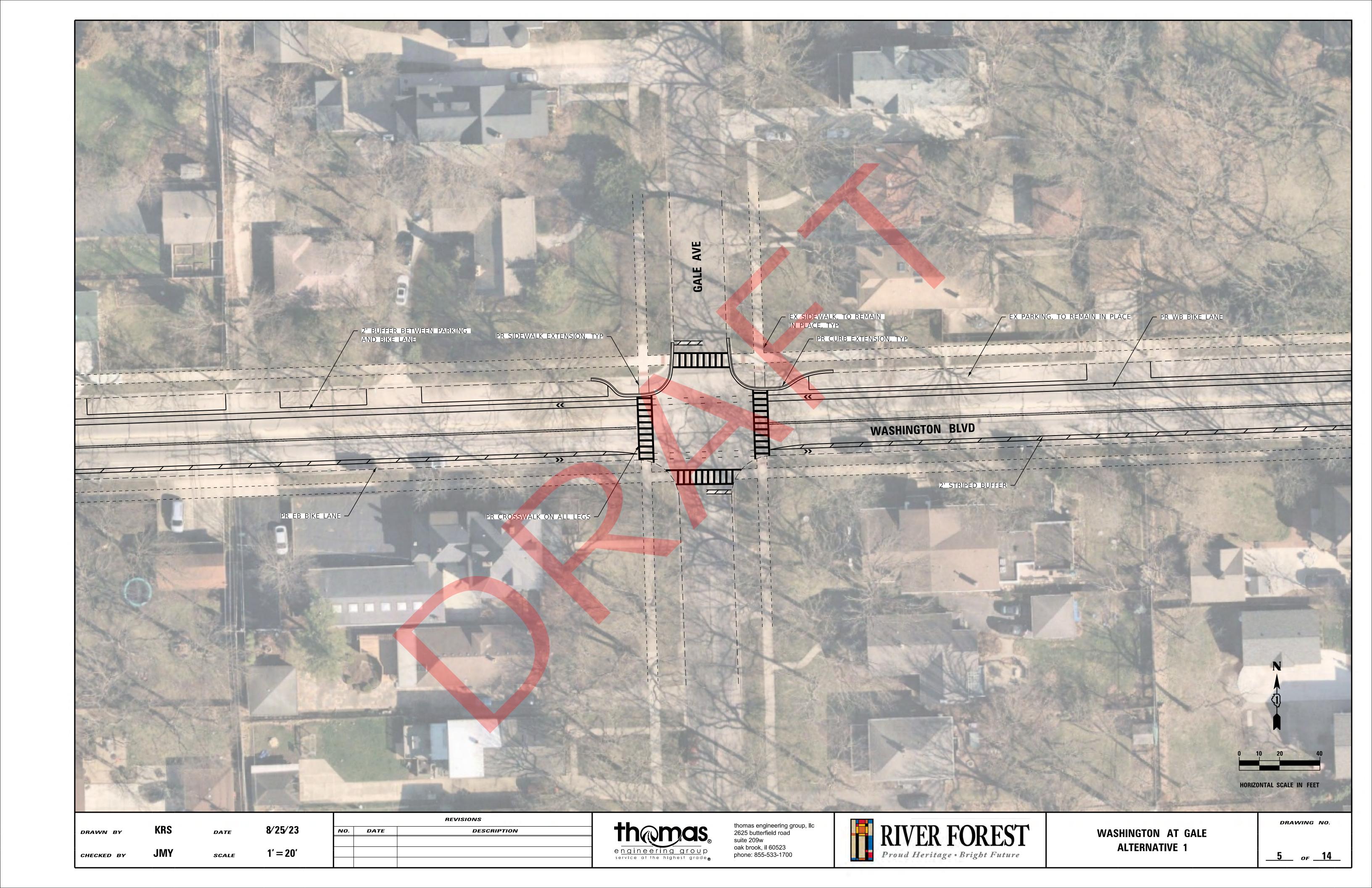


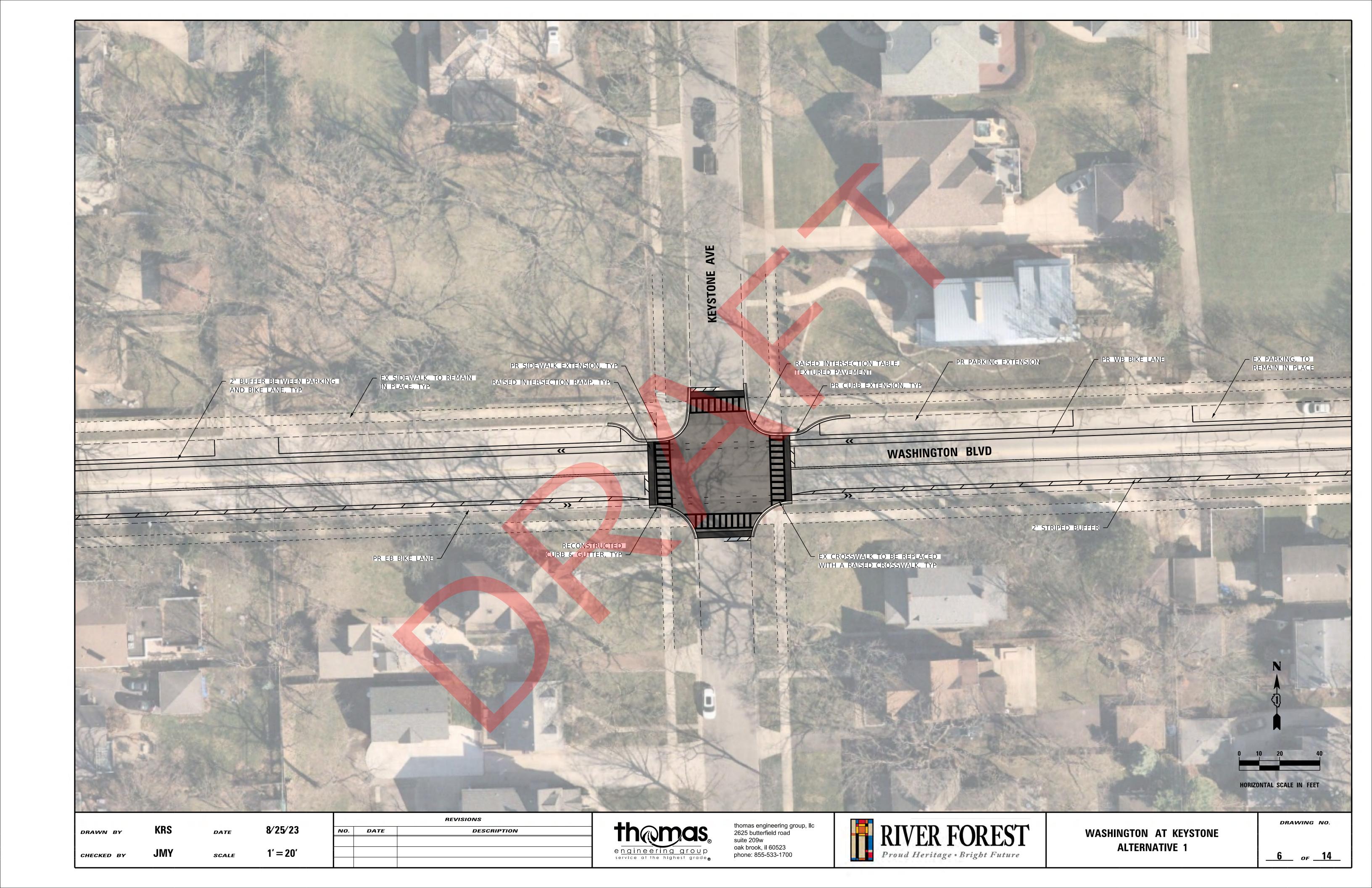
WASHINGTON BLVD EASTERN
TYPICAL SECTIONS

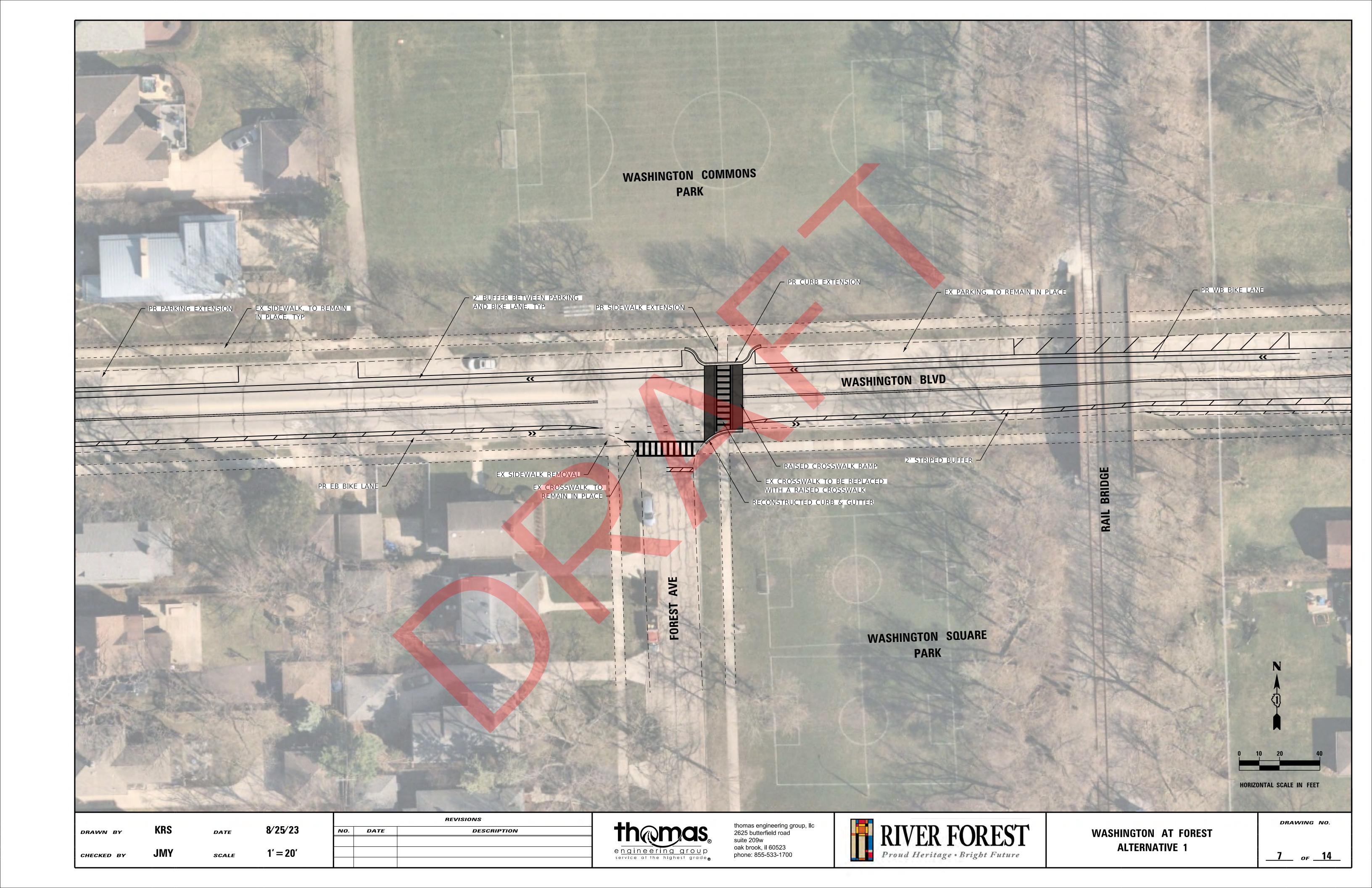
DRAWING NO.

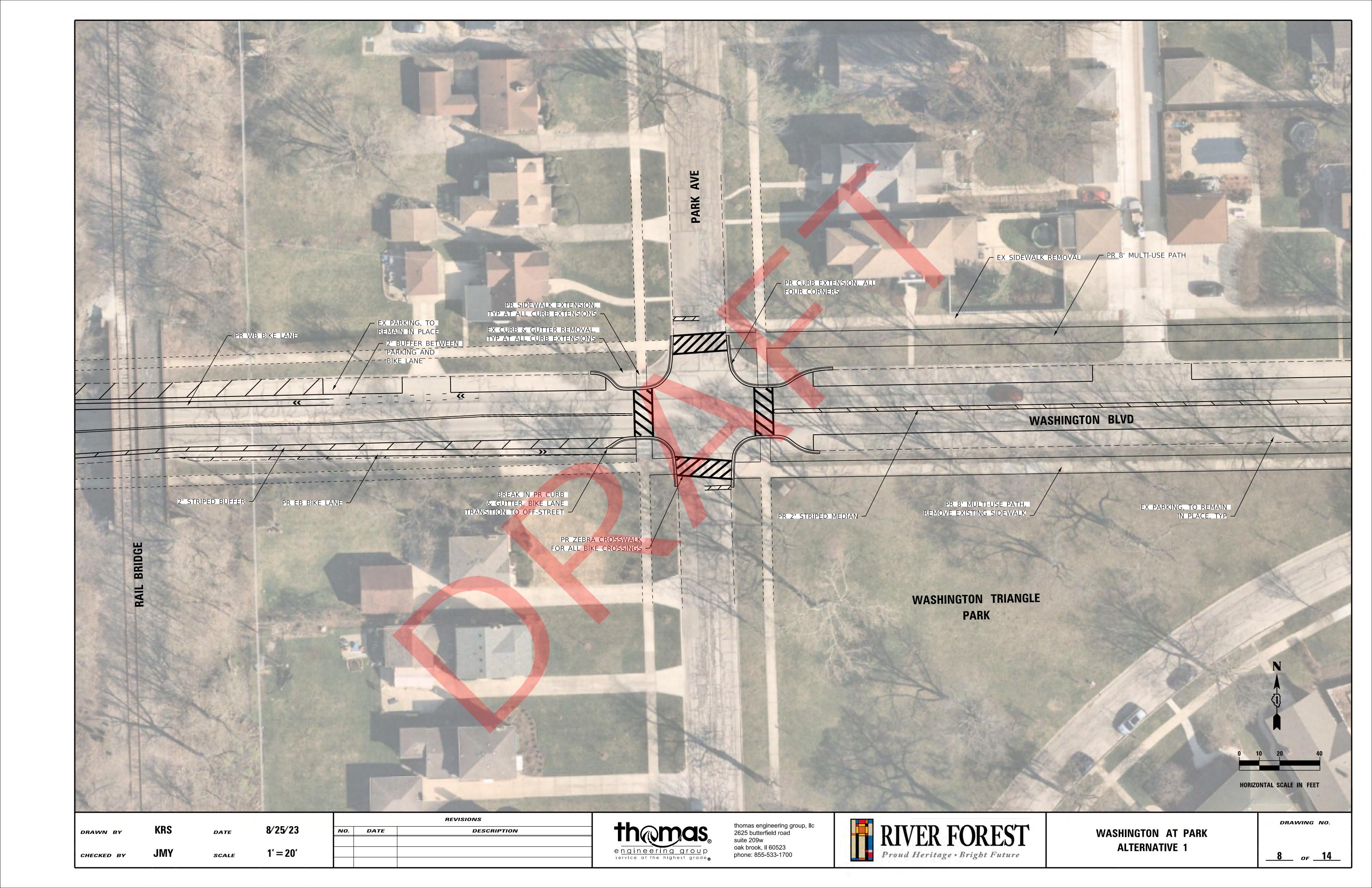
____3___ or ___14__

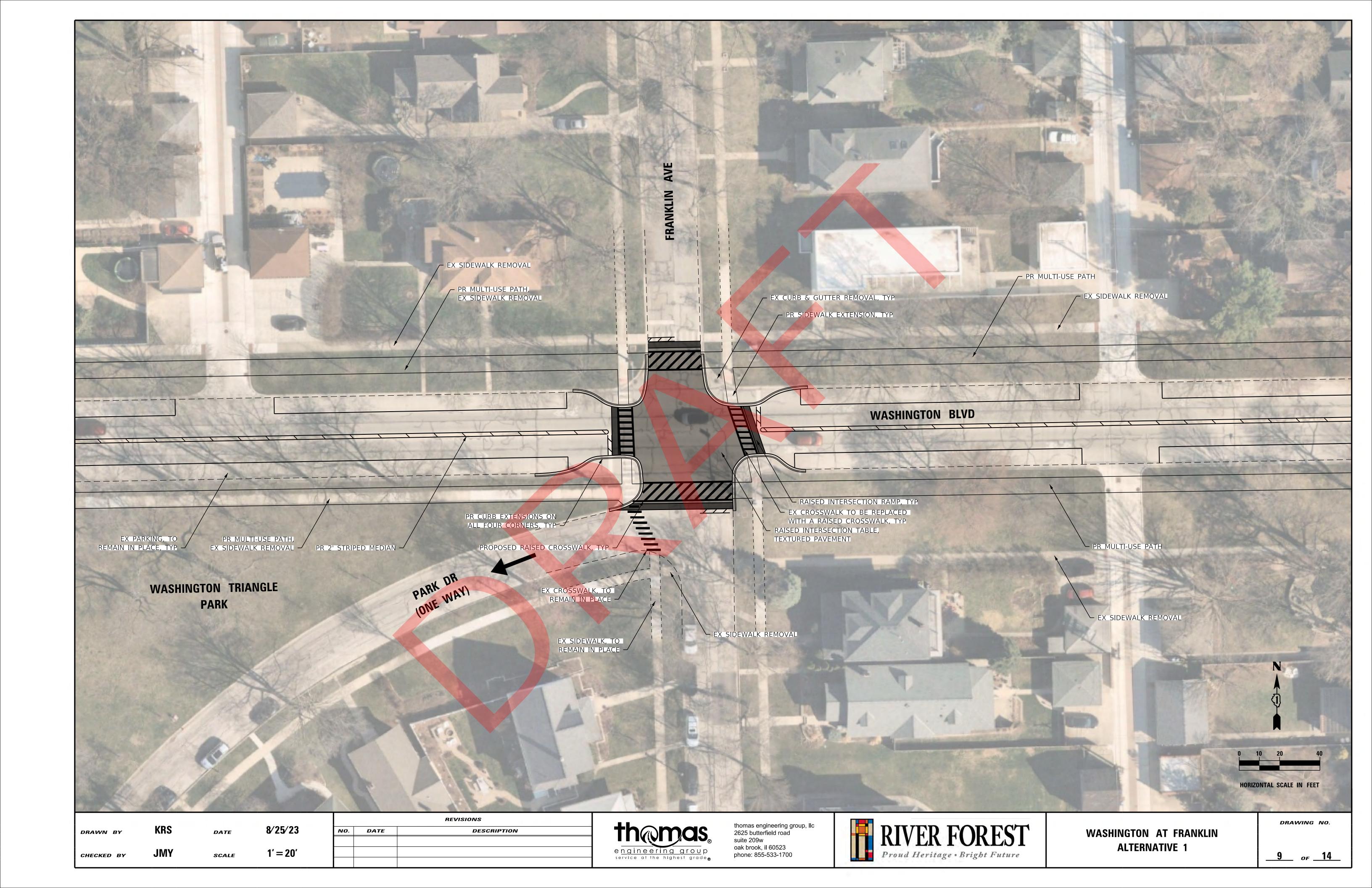


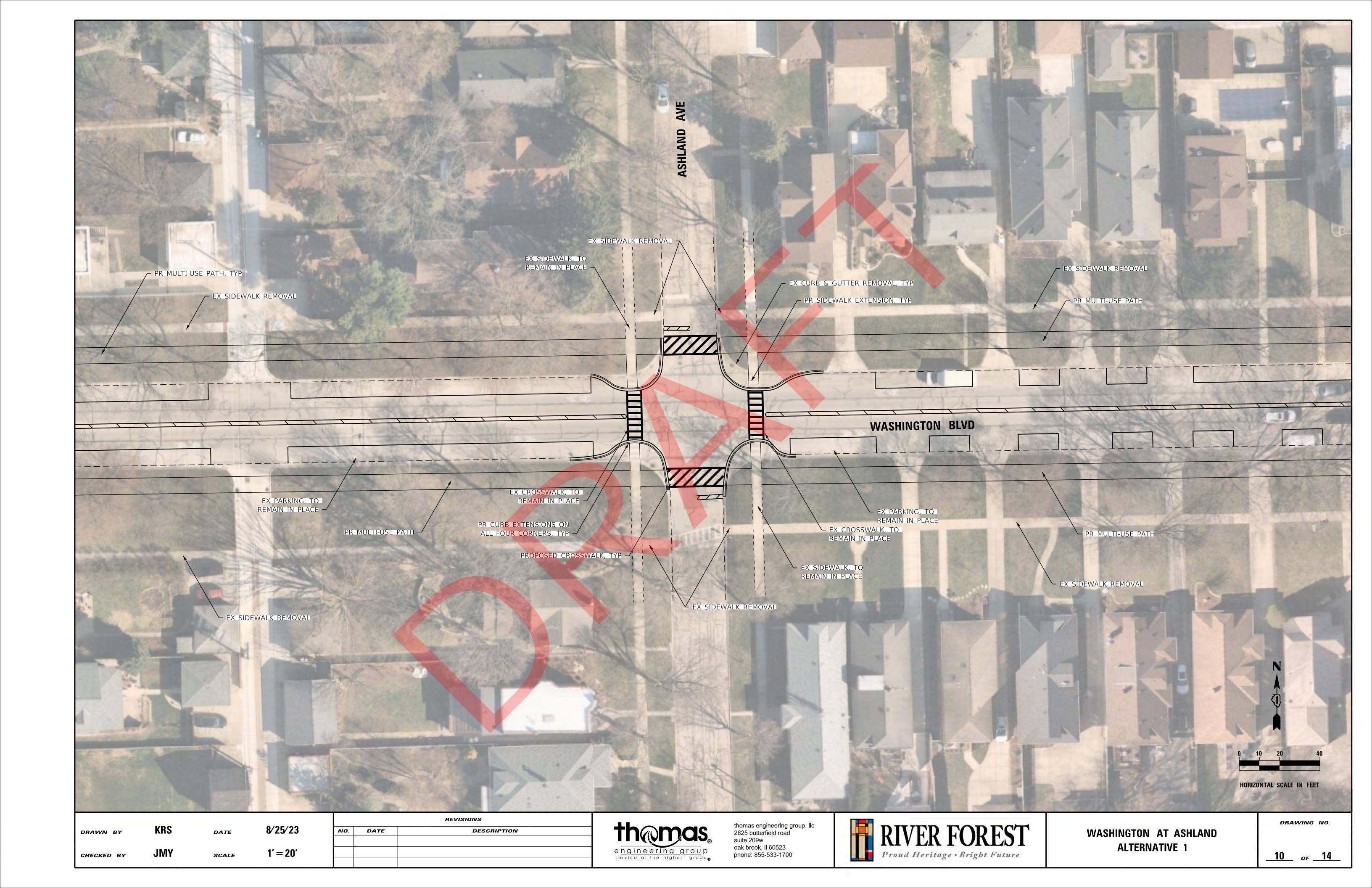


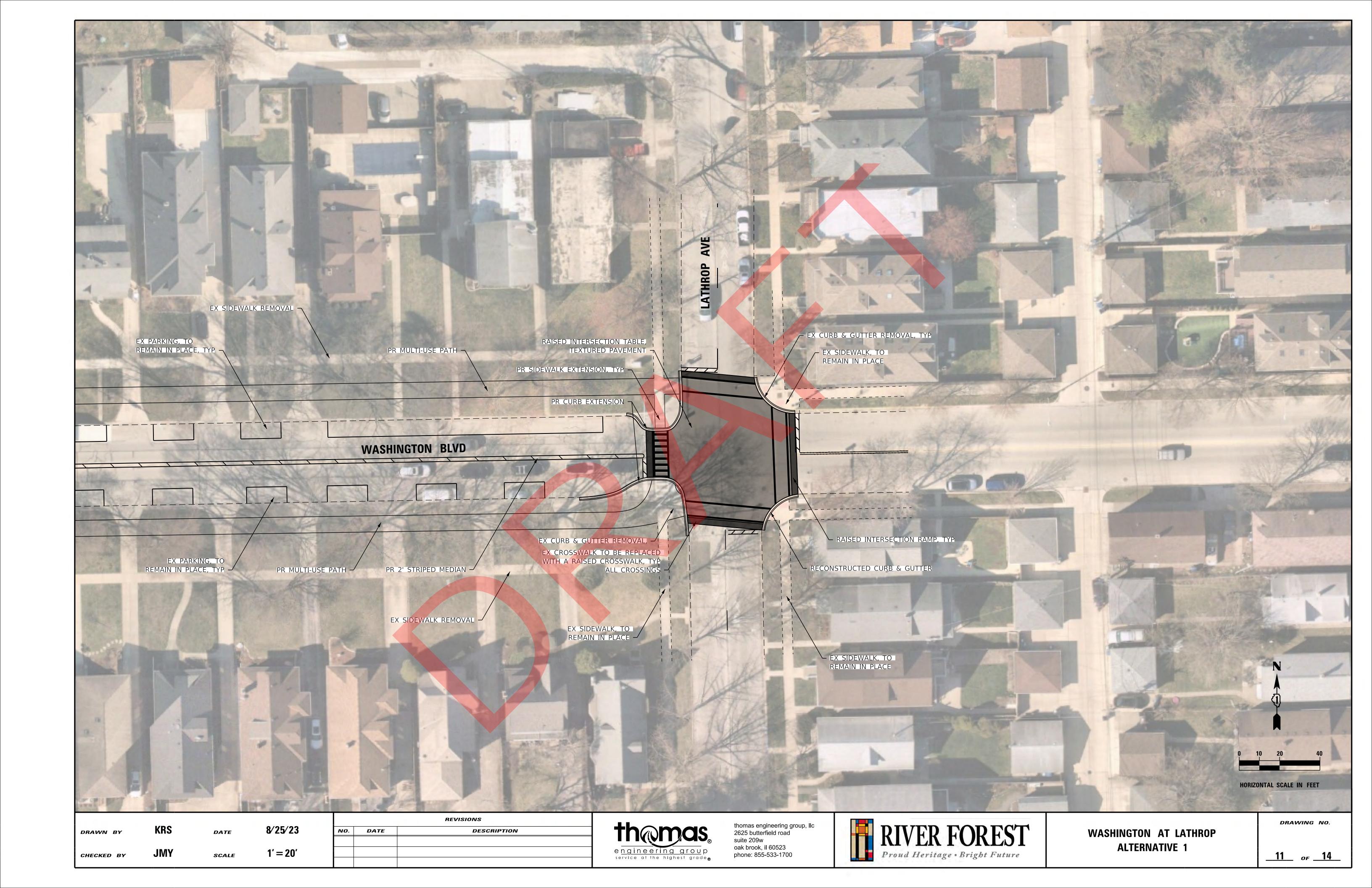


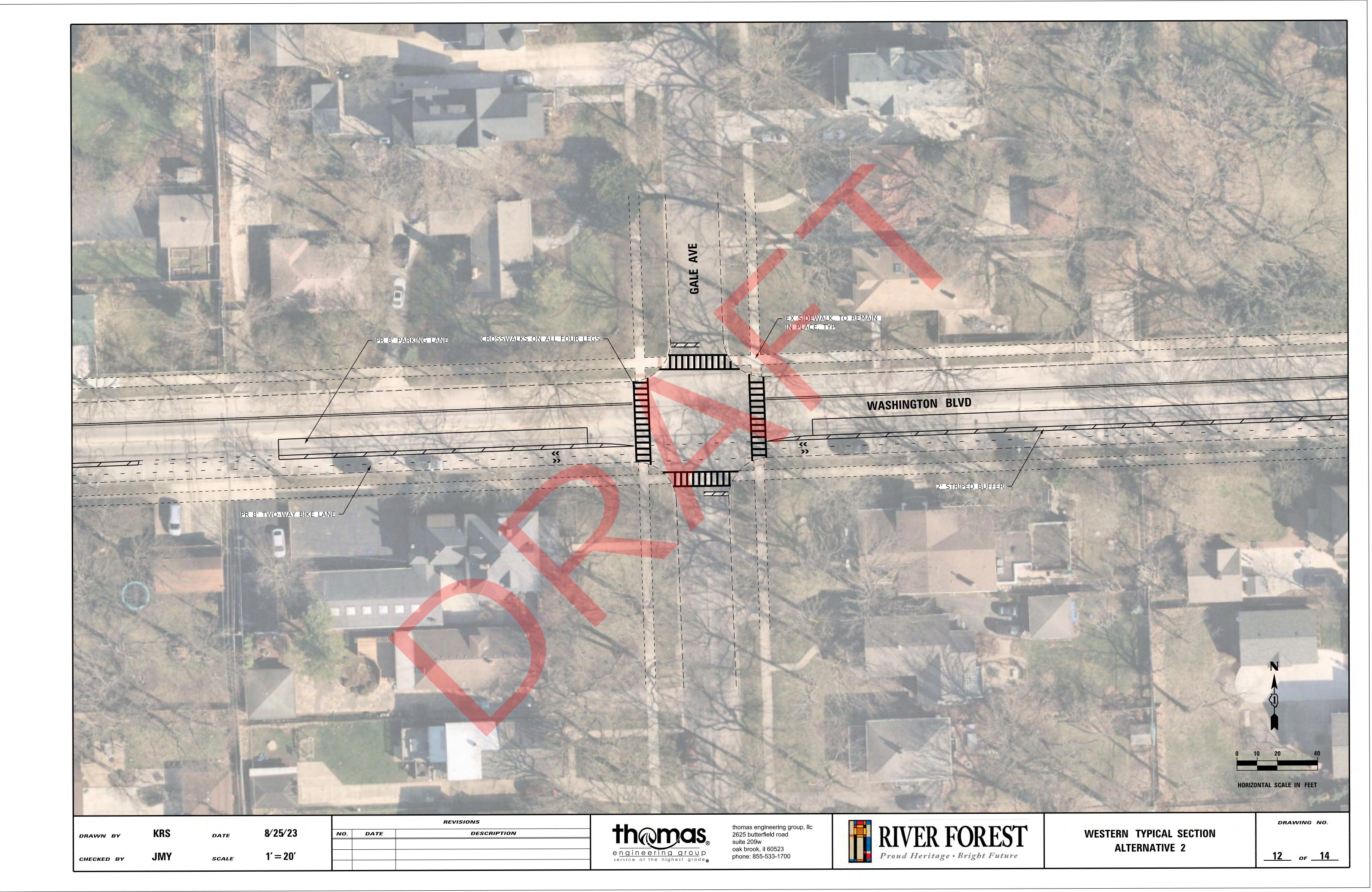


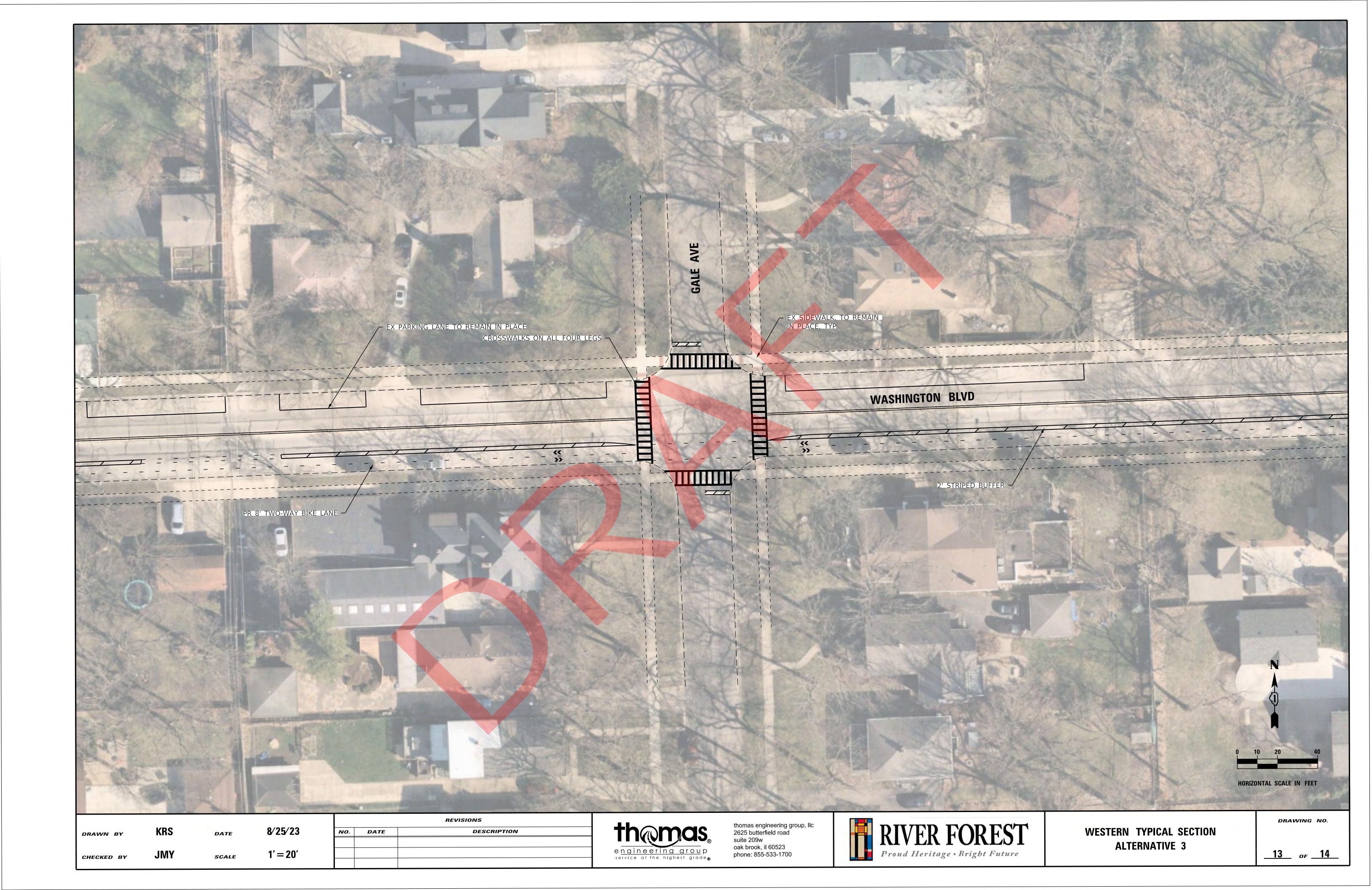


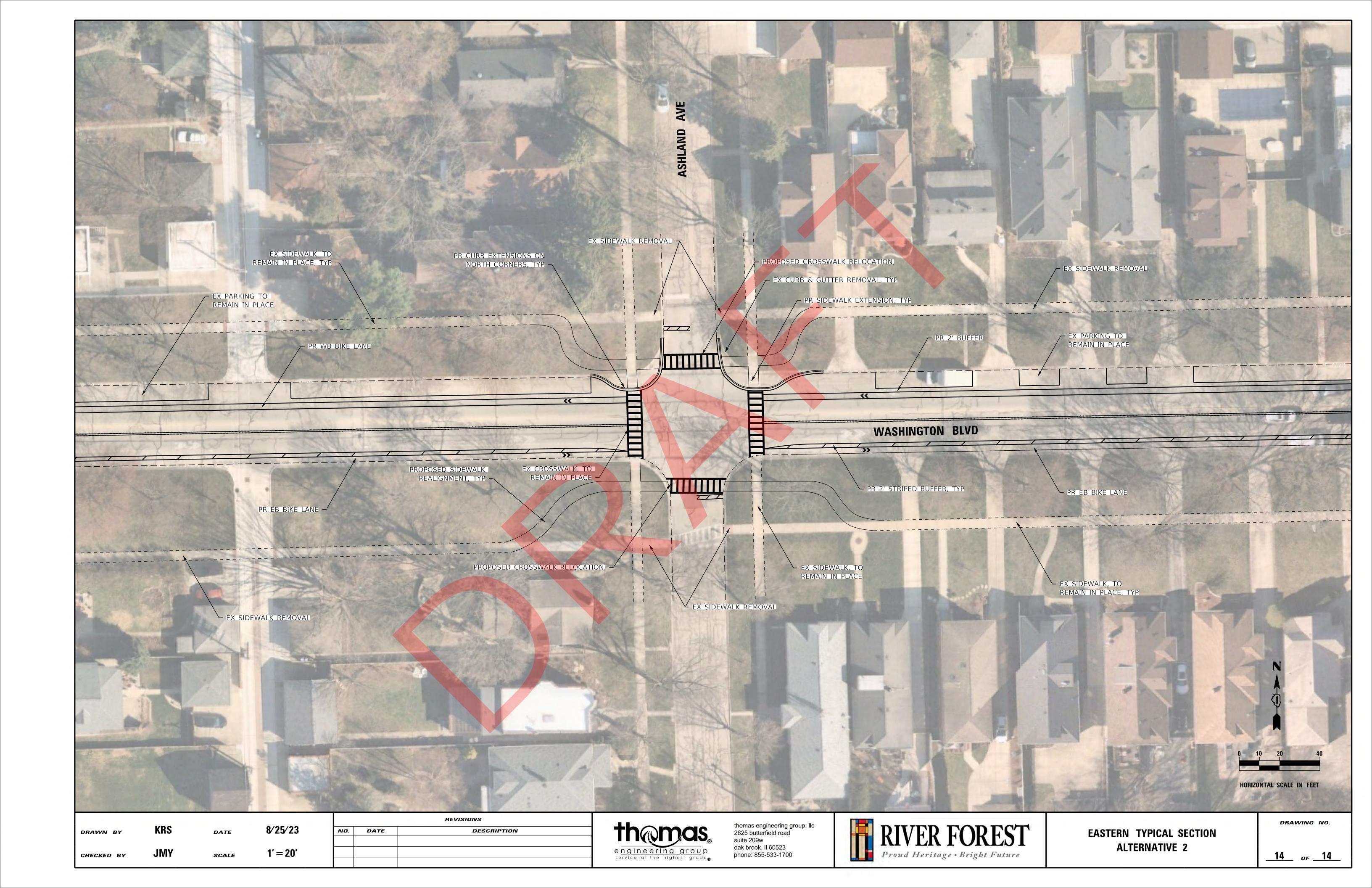
















APPENDIX G: THATCHER AVE SPEED STUDY

- 01. Speed Data
- 02. Thatcher Crash Data
- 03. Traffic Calming Toolbox Scoring Sheet





Speed Data



Sequential 85th Percentile Report

 Device ID:
 405193
 Begin: 05/31/2023 02:00 PM
 End: 06/01/2023 02:00 PM

 Street:
 Thatcher Ave
 Lane: Misc see chat
 Hours: 24.00

 State:
 II
 Operator: SD
 Period (min): 15

 City:
 River Forest
 Speed Limit: 25
 Raw Count: 2,844

 County:
 United States
 AADT Factor: 1
 ADT Count: 2,844

Date / Hour	NB Thatcher 85th	SB Thatcher Inside	SB Thatcher Outside	Avg Speed	Max Speed	NB 85th	Overall
Wednesday, May 31, 2023 3:00PM	39	41	45	31.25	45	38	
Wednesday, May 31, 2023 4:00PM	37	42	45	31.00	45	SB Inside 85th	
Wednesday, May 31, 2023 5:00PM	38	42	43	30.75	43	42	1
Wednesday, May 31, 2023 6:00PM	35	41	44	30.00	44	SB Outside 85th	1
Wednesday, May 31, 2023 7:00PM	38	42	45	31.25	45	44	
Wednesday, May 31, 2023 8:00PM	37	40	43	30.00	43		•
Wednesday, May 31, 2023 9:00PM	38	39	41	29.50	41		
Wednesday, May 31, 2023 10:00PM	39	42	41	30.50	42		
Wednesday, May 31, 2023 11:00PM	39	42	45	31.50	45		
Thursday, June 1, 2023 12:00AM	40	41	36	29.25			
Thursday, June 1, 2023 1:00AM	32	39	0	17.75	39		
Thursday, June 1, 2023 2:00AM	42	39	24	26.25			
Thursday, June 1, 2023 3:00AM	32	36	24	23.00	36		
Thursday, June 1, 2023 4:00AM	34	33	33	25.00	34		
Thursday, June 1, 2023 5:00AM	40	39	29	27.00	40		
Thursday, June 1, 2023 6:00AM	41	43	46	32.50	46		
Thursday, June 1, 2023 7:00AM	42	44	45	32.75	45		
Thursday, June 1, 2023 8:00AM	39	45	45	32.25	45		
Thursday, June 1, 2023 9:00AM	38	43	43	31.00	43		
Thursday, June 1, 2023 10:00AM	39	43	44	31.50	44		
Thursday, June 1, 2023 11:00AM	39	39	43	30.25	43		
Thursday, June 1, 2023 12:00PM	38	41	43	30.50	43		
Thursday, June 1, 2023 1:00PM	38	43	43	31.00	43		
Thursday, June 1, 2023 2:00PM	39	43	44	31.50	44		





Thatcher Crash Data

ID Name LOCATION INFO:

PG, FC & ADT County:

Cook County

Analysis Period 6 years

		Rear	End			Angle		Side	swipe	Oppos	site		swipe Direction	1	Turning	Left	Т	urning	Right		Fixed (Object		Overt	ırned		Head ()n		Pedestr	ian	C	Other Ob	ject		Anim	al		Pedalcy	clist	Othe	er Non-(Collision	Т	OTAL
YEAR	Crash Count	Injur Type	y In	jury C	Crash Count	Injury Type	Injury Count	Crash			ury C			Crash Count	Injury Type	Injury	Crash Count	Injury Type	Injury	Cras t Cou	sh Injur int Type	y Inj Co	ıry Cra	sh Inju nt Typ	ny Injury e Cour	Crast Coun	Injury t Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crast Coun	n Injury t Type	Injury Coun	Crash t Count	Injury Type	Injury Count	Crash Count	Injur Cour
2016			nanananananananananananananananananana																	1				and the second second																				1	
2017	1																							A PARTY OF THE PAR																				1	
2018	1	1 - E	3 1	- BI																																								1	1 - B
2019	1																							- Company of the Comp								P												1	
2020																																												0	
2021																				1	1-4	A 1	AI	- Andrewson and								1	1-0	1-0										2	1-A
TOTAL	3	1-E	3 1	- BI	0			0				0		0			0			2	1	A 1	AI 0	a new particular security of		0			0		-	1	1-0	1 - CI	0			0			0			6	1 - A 1 - B
%		50.0	0%			0.0%			0.0)%			0.0%		0.0%			0.09	6		33.:	3%		0.0	1%		0.0%			0.0%			16.79			0.0%			0.09			0.09	6		

			INJURY TYPE						ONDITIONS			TOTAL
YEAR	K	Α	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016					1	0	0%	1	100%	0	0%	1
2017					1	0	0%	0	0%	0	0%	1
2018			1		0	1	100%	0	0%	0	0%	1
2019					1	0	0%	0	0%	0	0%	1
2020					0	0	-	0	-	0	-	0
2021		1		1	0	1	50%	0	0%	1	50%	2
TOTAL	0	1	1	1	3	2	33.3%	1	16.7%	1	16.7%	6

Sheet 1 of 1

PG, FC & ADT Minor Stop - 3 Leg

| Main ID: U2753-U1394 | Sub ID: ALL | Study Period Begin Year: 2016 to 2021

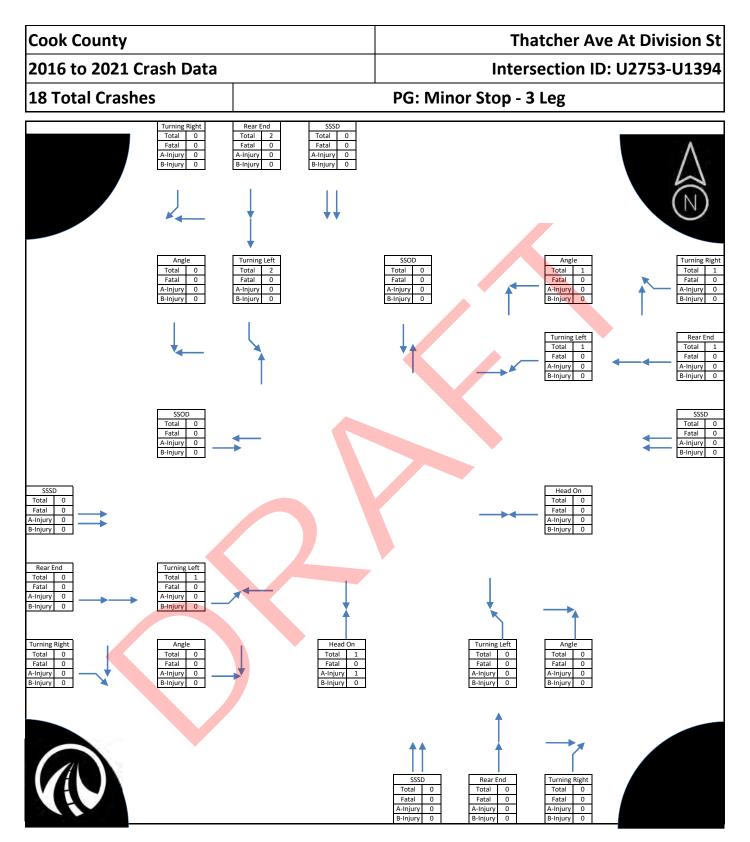
County: Cook County

Analysis Period 6 years

	_	_				_		15	Sides	wipe (Oppos	ite	Sides	wipe	Same	$\overline{}$	_	_	_	_	_					\neg	-						T -															1		
YEAR		Rear				Ang				Direct	ion		D	irectio	on	_	Turnir				rning F	-	_	Fixed (rturne			Head O	_	_	Pedest			Other		_		Anima		_	Pedalcy	_		Non-Col		то	
	Crash Coun	lnju t Typ	ry I	njury Count	Crash Count	Injury Type	Inju Cou	iry C int C	crash Count	Injury Type	Inju Cou	ry Cr int Co	ash ount	Injury Type	Injury Coun	Cras t Cour	h Inju	iry I	Injury Count	Crash Count	Injury Type	Injury Count	Cras Cour	h Injui	y Inj	ury Cra	ash In unt T	jury ype	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Type	Injur	y Cra	sh Inju	ury Ir pe C	ijury C ount C	rash ount	Injury Type	Injury Count	Crash	Injury Type	Injury Count	Crash Count	Injury Type	Injury Count	Crash Count	Injury Count
2016																1	1-	в :	2 - BI				2				NAVACACACACACACACA			1	1 - A	2 - AI																	4	2 - Al 2 - Bl
2017																1											AND RESERVED TO SERVED A					-				1										1			3	
2018	2	1-	c :	2 - CI	1											1				1			1				- CALIFORNIA CONTRACTOR CONTRACTO																						6	2 - Cl
2019	1																										THE PERSON NAMED IN THE PE									1													2	
2020																							1																										1	
2021																1											ACRES ACRES ACRES ACRES									1			>										2	
TOTAL	3	1-	c :	2 - CI	1				0				0			4	1-	в :	2 - BI	1			4				•			1	1-A	2 - Al	0			3				0			0			1			18	2 - Al 2 - Bl 2 - Cl
%		16.	7%	-		5.6	%			0.09	6			0.0%			22.	.2%			5.6%			22.	2%			0.0%			5.6%			0.0%	6	(16	5.7%			0.0%			0.09	,		5.6%			

			INJURY TYPE					CRASH CO	ONDITIONS			TOTAL
YEAR	K	A	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016		1	1		2	3	75%	0	0%	1	25%	4
2017					3	1	33%	0	0%	2	67%	3
2018				1	5	1	17%	0	0%	3	50%	6
2019					2	1	50%	0	0%	0	0%	2
2020					1	0	0%	0	0%	0	0%	1
2021					2	1	50%	0	0%	0	0%	2
TOTAL	0	1	1	1	15	7	38.9%	0	0.0%	6	33.3%	18

Sheet 1 of 1



The following crashes could not be plotted on the diagram

	FO	OT	PD	PDC	00	Animal	ONC	TOTAL
Total	4	0	0	0	3	0	1	8
Fatal	0	0	0	0	0	0	0	0
A-Injury	0	0	0	0	0	0	0	0
B-Injury	0	0	0	0	0	0	0	0

PG, FC & ADT Minor Stop - 3 Leg

Sub ID: ALL

Study Period Begin Year: 2016 to 2021

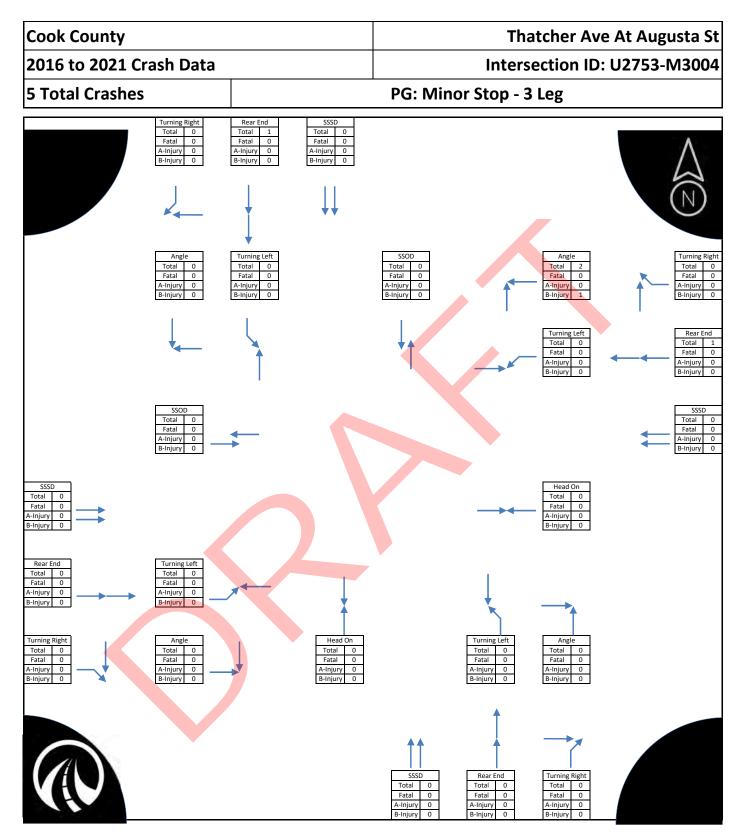
County: Cook County

Analysis Period 6 years

		Roas	r End			Ang	lo.				pposi	te		wipe S	Т	Turning	n I oft	Turr	ning Ri	iaht		Fixed C	hiert		Over	turned		-	lead O	n		Pedest	rian		Other	Ohiec			Anima		Pedalc	uclist	Ωth	or Non-(Collision	т	OTAL
YEAR	Crasi			Injury Count	Crash Count			ıry C		Injury Type		ry Cra		rection njury Type				 									jury C																				
2016																																														0	
2017					1	1 - B	2 -	ВІ																																1	1 - B	3 - B	11			2	5 - B
2018	1				1																				-																					2	
2019																																														0	
2020	1																																													1	
2021																									-)									0	
TOTAL	2				2	1 - B	2 -	ВІ	0)		0			0			0			0				0			0			٥				0		1	1-B	3 - B	. 0			5	5 - B
%		40	.0%			40.0	%			0.09	6			0.0%		0.0	%		0.0%			0.0	%		0	.0%			0.0%			0.0%		(0.	.0%			0.0%		20.0	%		0.09	6		

			INJURY TYPE						ONDITIONS			TOTAL
YEAR	K	A	В	С	PDO	Wet	Wet %	Snow/Ice	Snow/Ice %	Night	Night %	TOTAL
2016					0	0	-	0	-	0	-	0
2017			2		0	0	0%	0	0%	0	0%	2
2018					2	0	0%	1	50%	1	50%	2
2019					0	0	-	0	-	0	-	0
2020					1	0	0%	0	0%	0	0%	1
2021					0	0	-	0		0	ï	0
TOTAL	0	0	2	0	3	0	0.0%	1	20.0%	1	20.0%	5

Sheet 1 of 1



The following crashes could not be plotted on the diagram

	FO	OT	PD	PDC	00	Animal	ONC	TOTAL
Total	0	0	0	1	0	0	0	1
Fatal	0	0	0	0	0	0	0	0
A-Injury	0	0	0	0	0	0	0	0
B-Injury	0	0	0	1	0	0	0	1





Traffic Calming Toolbox Scoring Sheets



Scoring Matrix



Measure	Criteria for assigning a numerical score to traffic problems	Points
professional control of the control	1-3 crashes in a 5 year period = 5 points	0-20 pts.
Crash History	4-10 crashes in a 5 year period = 10 points More than 10 crashes in a 5 year period = 15 points any crash involving a pedestrian/cyclist = +5 points	Score:
Vehicle Speed	85th percentile speed is not over the speed limit = 0 points 85th percentile speed is 2 mph over the speed limit = 3 points 85th percentile speed is 4 mph over the speed limit = 6 points 85th percentile speed is 6 mph over the speed limit = 9 points 85th percentile speed is 8 mph over the speed limit = 12 points	0-20 pts.
	85th percentile speed is 10 mph over the speed limit = 15 points Outlier Speed 20+ mph above posted speed limit = +5 points	Score:
Vehicle Volume	ADT < 750 = 0 points ADT = 751 - 1,350 = 5 points ADT = 1,351 - 1,950 = 10 points	0-20 pts.
	ADT = 1,951 - 2,550 = 15 points ADT > 2,550 = 20 points	Score:
Pedestrian Traffic Generators	Any school, park, library, church, CTA station more than 2 blocks (1,320 ft.) away = 0 points Any school, park, library, church, CTA station 1-2 blocks (1,320 ft.) away = 5 points Any school, park, library, church, CTA station 1 block (660 ft.) or less away =	0-20 pts.
	10 points Three or more overlapping 1-block areas = +10 points Three or more overlapping 2-block areas = +5 points	Score:
Bike Routes / Non-Bike	Not identified as a proposed bike route = 0 points Identified as a Marked Shared Lane = 5 points	0-10 pts.
	Identified as a Dedicated Bike Lane = 10 points *Per Village Bicycle Plan published in 2019	Score:
Community Interest	No Petition = 0 points Local Petition (0-75% residents on block) = 5 points Local Petition (75%+ of residents on block) = 10 points	0-10 pts.
- similarity interest	Village Petition (0-10% of Village population) = 5 points Village Petition (10%+ of Village population) = 10 points	Score:
Intersection 1: Segment: Intersection 2:	Thatcher Ave @ Division St Thatcher Ave Thatcher Ave @ Avansta St	Total: 75





APPENDIX H: GENERAL EXHIBITS

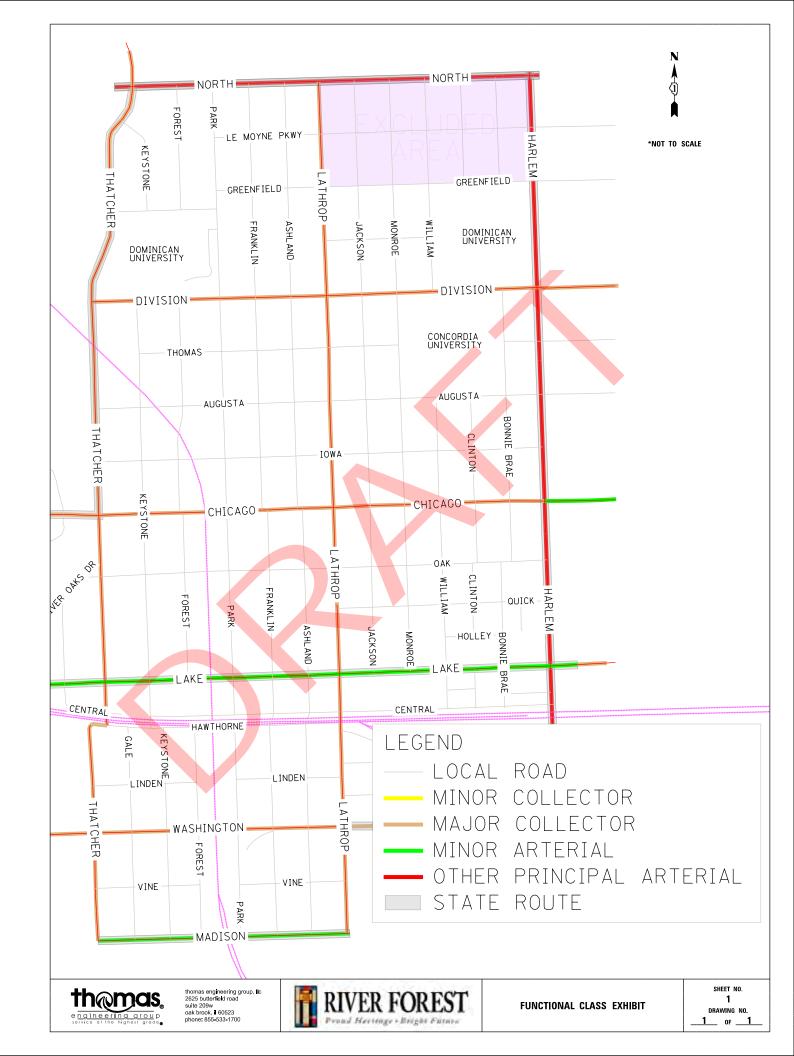
- 01. Functional Class Map
- 02. Study Locations & Data Collection Exhibit
- 03. 24 Hour Traffic Counts
- 04. 12 Hour Traffic Counts
- 05. Rail Crossing Inventory
- 06. NE Quadrant Traffic Counts





Functional Class Exhibit









Study Locations & Data Collection Exhibit





th@mas.





24 Hour Traffic Counts



Madison Street & Thatcher Avenue 12/06/2022 12:00 AM

		atcher Aver			ladison Stre Westbound		M	ladison Stre Eastbound	et		0						
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	0	0	0	Hourly Total	PC %	Heavy Veh %	Peak Hour Factor	FILTER
12:00 AM	4	0	2	0	17	2	3	17	0	0	0	0	45	93.3%	6.7%		
12:15 AM	4	0	2	0	17	2	3	18	0	0	0	0	46	95.7%	4.3%		
12:30 AM	1	0	0	0	11	2	1	20	0	0	0	0	35	97.1%	2.9%		
12:45 AM	1	0	0	0	12	2	1	22	0	0	0	0	38	97.4%	2.6%		
1:00 AM	0	0	0	0	13	2	1	25	0	0	0	0	41	100.0%	0.0%		
1:15 AM	0	0	1	0	12	2	1	21	0	0	0	0	37	100.0%	0.0%		
1:30 AM	1	0	1	0	17	2	1	21	0	0	0	0	43	100.0%	0.0%		
1:45 AM	2	0	4	0	13	2	0	17	0	0	0	0	38	100.0%	0.0%		
2:00 AM	2	0	6	0	9	1	0	11	0	0	0	0	29	100.0%	0.0%		
2:15 AM	2	0	6	0	7	0	0	10	0	0	0	0	25	100.0%	0.0%		
2:30 AM	1	0	6	0	5	0	1	9	0	0	0	0	22	95.5%	4.5%		
2:45 AM	0	0	4	0	5	0	2	9	0	0	0	0	20	95.0%	5.0%		
3:00 AM	0	0	5	0	6	1	3	14	0	0	0	0	29	96.6%	3.4%		
3:15 AM	0	0	7	0	9	3	4	18	0	0	0	0	41	95.1%	4.9%		
3:30 AM	0	0	9	0	10	3	4	19	0	0	0	0	45	95.6%	4.4%		
3:45 AM	0	0	11	0	18	4	3	24	0	0	0	0	60	95.0%	5.0%		
4:00 AM	0	0	11	0	20	4	3	26	0	0	0	0	64	89.1%	10.9%		
4:15 AM	0	0	10	0	23	4	2	27	0	0	0	0	66	89.4%	10.6%		
4:30 AM	2	0	13	0	29	7	1	29	0	0	0	0	81	84.0%	16.0%		
4:45 AM	2	0	16	0	52	10	2	38	0	0	0	0	120	87.5%	12.5%		
5:00 AM	5	0	19	0	73	16	2	44	0	0	0	0	159	91.2%	8.8%		
5:15 AM	9	0	27	0	87	16	5	81	0	0	0	0	225	88.9%	11.1%		
5:30 AM	10	0	43	0	112	16	18	115	0	0	0	0	314	92.4%	7.6%		
5:45 AM	17	0	80	0	118	19	24	170	0	0	0	0	428	92.5%	7.5%		
6:00 AM	26	0	97	0	142	22	32	264	0	0	0	0	583	93.8%	6.2%		
6:15 AM	29	0	106	0	170	34	41	355	0	0	0	0	735	93.9%	6.1%		
6:30 AM	33	0	111	0	216	45	59	431	0	0	0	0	895	93.4%	6.6%		
6:45 AM	30	0	99	0	296	64	83	493	0	0	0	0	1065	93.7%	6.3%		
7:00 AM	24	0	125	0	346	83	102	518	0	0	0	0	1198	93.5%	6.5%		
7:15 AM	33	0	152	0	409	101	127	510	0	0	0	0	1332	94.4%	5.6%		
7:30 AM	31	0	181	0	467	115	135	475	0	0	0	0	1404	95.2%	4.8%	0.95	AM Peak
7:45 AM	32	0	182	0	442	109	123	436	0	0	0	0	1324	95.2%	4.8%		
8:00 AM	30	0	157	0	439	98	112	407	0	0	0	0	1243	94.4%	5.6%		
8:15 AM	19	0	125	0	393	93	91	347	0	0	0	0	1068	93.9%	6.1%		
8:30 AM	15	0	91	0	322	89	63	340	0	0	0	0	920	92.9%	7.1%		
8:45 AM	15	0	75	0	284	77	54	306	0	0	0	0	811	93.0%	7.0%		
9:00 AM	16	0	68	0	228	72	44	266	0	0	0	0	694	93.5%	6.5%		
9:15 AM	17	0	71	0	215	51	38	252	0	0	0	0	644	93.9%	6.1%		

9:30 AM	20	0	61	0	185	41	34	237	0	0	0	0	578	93.3%	6.7%		
9:45 AM	25	0	59	0	186	44	40	233	0	0	0	0	587	92.7%	7.3%		
10:00 AM	27	0	57	0	202	38	45	239	0	0	0	0	608	94.2%	5.8%		
10:15 AM	25	0	57	0	202	47	40	235	0	0	0	0	606	93.7%	6.3%		
10:30 AM	30	0	60	0	216	42	45	228	0	0	0	0	621	93.9%	6.1%		
10:45 AM	26	0	59	0	212	41	40	245	0	0	0	0	623	94.4%	5.6%		
11:00 AM	25	0	55	0	219	46	35	224	0	0	0	0	604	93.4%	6.6%		
11:15 AM	28	0	59	0	228	46	41	224	0	0	0	0	626	94.1%	5.9%		
11:30 AM	22	0	63	0	235	52	41	241	0	0	0	0	654	95.1%	4.9%		
11:45 AM	22	0	70	0	238	62	42	233	0	0	0	0	667	95.4%	4.6%		
12:00 PM	29	0	74	0	236	66	43	248	0	0	0	0	696	95.7%	4.3%		
12:15 PM	28	0	69	0	235	61	38	269	0	0	0	0	700	93.4%	6.6%		
12:30 PM	33	0	75	0	238	53	34	258	0	0	0	0	691	93.8%	6.2%		
12:45 PM	33	0	75	0	262	46	32	265	0	0	0	. 0	713	93.4%	6.6%		
1:00 PM	29	0	77	0	284	44	41	280	0	0	0	0	755	93.2%	6.8%		
1:15 PM	31	0	80	0	317	41	57	298	0	0	0	0	824	95.3%	4.7%		
1:30 PM	29	0	72	0	333	52	66	298	0	0	0	0	850	93.9%	6.1%		
1:45 PM	28	0	78	0	339	56	77	310	0	0	0	0	888	92.9%	7.1%		
2:00 PM	24	0	83	0	332	59	88	328	0	0	0	0	914	92.2%	7.8%		
2:15 PM	20	0	90	0	352	63	92	333	0	0	0	0	950	91.9%	8.1%		
2:30 PM	23	0	102	0	376	68	111	385	0	0	0	0	1065	93.7%	6.3%		
2:45 PM	38	0	103	0	379	67	119	428	0	0	0	0	1134	94.7%	5.3%		
3:00 PM	53	0	99	0	420	69	120	450	0	0	0	0	1211	96.0%	4.0%		
3:15 PM	62	0	104	0	421	77	126	500	0	0	0	0	1290	96.8%	3.2%		
3:30 PM	71	0	101	0	417	70	112	547	0	0	0	0	1318	96.3%	3.7%		
3:45 PM	67	0	101	0	434	70	115	569	0	0	0	0	1356	96.5%	3.5%		
4:00 PM	65	0	112	0	442	72	125	612	0	0	0	0	1428	96.9%	3.1%	0.91 P	M Peak
4:15 PM	60	0	92	0	440	69	124	614	0	0	0	0	1399	97.1%	2.9%		
4:30 PM	59	0	93	0	469	70	135	585	0	0	0	0	1411	97.7%	2.3%		
4:45 PM	52	0	84	0	480	75	123	549	0	0	0	0	1363	98.5%	1.5%		
5:00 PM	47	0	74	0	460	66	101	512	0	0	0	0	1260	97.9%	2.1%		
5:15 PM	49	0	78	0	434	60	89	471	0	0	0	0	1181	97.9%	2.1%		
5:30 PM	42	0	67	0	377	55	69	436	0	0	0	0	1046	97.7%	2.3%		
5:45 PM	42	0	64	0	327	39	63	395	0	0	0	0	930	97.3%	2.7%		
6:00 PM	35	0	63	0	274	36	62	340	0	0	0	0	810	97.4%	2.6%		
6:15 PM	30	0	58	0	234	32	50	272	0	0	0	0	676	97.3%	2.7%		
6:30 PM	24	0	52	0	206	26	56	223	0	0	0	0	587	97.3%	2.7%		
6:45 PM	23	0	45	0	177	23	47	183	0	0	0	0	498	97.2%	2.8%		
7:00 PM	20	0	37	0	165	18	38	150	0	0	0	0	428	97.7%	2.3%		
7:15 PM	18	0	32	0	145	16	34	144	0	0	0	0	389	97.7%	2.3%		
7:30 PM	21	0	25	0	126	14	24	120	0	0	0	0	330	97.6%	2.4%		
7:45 PM	17	0	22	0	122	18	24	114	0	0	0	0	317	97.8%	2.2%		
8:00 PM	15	0	18	0	109	16	26	112	0	0	0	0	296	97.6%	2.4%		
8:15 PM	17	0	16	0	103	18	29	106	0	0	0	0	289	97.6%	2.4%		
8:30 PM	14	0	20	0	96	17	25	100	0	0	0	0	272	98.5%	1.5%		
8:45 PM	15	0	20	0	84	12	22	102	0	0	0	0	255	97.6%	2.4%		
		-		-					-	-	-	-					

9:00 PM	14	0	17	0	78	12	15	87	0	0	0	0	223	97.3%	2.7%	
9:15 PM	9	0	17	0	80	7	13	87	0	0	0	0	213	97.2%	2.8%	
9:30 PM	6	0	14	0	81	4	10	91	0	0	0	0	206	95.6%	4.4%	
9:45 PM	3	0	11	0	74	3	12	79	0	0	0	0	182	95.1%	4.9%	
10:00 PM	3	0	8	0	66	2	12	76	0	0	0	0	167	95.2%	4.8%	
10:15 PM	4	0	5	0	52	2	10	60	0	0	0	0	133	95.5%	4.5%	
10:30 PM	5	0	10	0	43	4	11	50	0	0	0	0	123	96.7%	3.3%	
10:45 PM	3	0	9	0	34	5	7	45	0	0	0	0	103	98.1%	1.9%	
11:00 PM	3	0	11	0	35	5	5	38	0	0	0	0	97	97.9%	2.1%	
11:15 PM	2	0	11	0	26	4	3	31	0	0	0	0				
11:30 PM	0	0	3	0	18	2	0	21	0	0	0	0				
11:45 PM	0	0	2	0	14	1	0	10	0	0	0	0				
Movement Total	496	0	1275	0	4615	850	1058	5288	0	0	0	0				Movement Total
PC %	98.2%		97.1%		94.3%	95.8%	96.5%	94.9%								PC %
Heavy Veh %	1.8%		2.9%		5.7%	4.2%	3.5%	5.1%								Heavy Veh %

Madison Street & Lathrop Avenue 12/06/2022 12:00 AM

		athrop Aven Southbound			ladison Stre Westbound		M	ladison Stre Eastbound			0 0						
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	0	0	0	Hourly Total	PC %	Heavy Veh %	Peak Hour Factor	FILTER
12:00 AM	4	0	3	0	16	3	2	25	0	0	0	0	53	96.2%	3.8%		
12:15 AM	3	0	2	0	15	2	1	23	0	0	0	0	46	97.8%	2.2%		
12:30 AM	2	0	3	0	14	2	1	21	0	0	0	0	43	100.0%	0.0%		
12:45 AM	2	0	3	0	13	3	1	24	0	0	0	0	46	97.8%	2.2%		
1:00 AM	2	0	2	0	14	6	1	20	0	0	0	0	45	93.3%	6.7%		
1:15 AM	2	0	2	0	13	6	1	17	0	0	0	0	41	90.2%	9.8%		
1:30 AM	2	0	1	0	16	6	2	18	0	0	0	0	45	91.1%	8.9%		
1:45 AM	2	0	0	0	14	7	2	14	0	0	0	0	39	92.3%	7.7%		
2:00 AM	1	0	0	0	11	4	1	11	0	0	0	0	28	96.4%	3.6%		
2:15 AM	2	0	0	0	9	3	1	10	0	0	0	0	25	100.0%	0.0%		
2:30 AM	3	0	0	0	6	2	0	9	0	0	0	0	20	100.0%	0.0%		
2:45 AM	4	0	1	0	6	0	0	8	0	0	0	0	19	94.7%	5.3%		
3:00 AM	4	0	1	0	8	1	0	11	0	0	0	0	25	92.0%	8.0%		
3:15 AM	3	0	1	0	11	2	0	11	0	0	0	0	28	89.3%	10.7%		
3:30 AM	2	0	1	0	14	2	0	10	0	0	0	0	29	79.3%	20.7%		
3:45 AM	3	0	1	0	19	2	0	17	0	0	0	0	42	83.3%	16.7%		
4:00 AM	7	0	2	0	21	9	0	18	0	0	0	0	57	84.2%	15.8%		
4:15 AM	11	0	3	0	22	8	0	24	0	0	0	0	68	86.8%	13.2%		
4:30 AM	15	0	4	0	28	14	0	25	0	0	0	0	86	93.0%	7.0%		
4:45 AM	18	0	4	0	48	19	1	31	0	0	0	0	121	94.2%	5.8%		
5:00 AM	23	0	3	0	66	22	1	39	0	0	0	0	154	96.8%	3.2%		
5:15 AM	28	0	6	0	78	32	1	68	0	0	0	0	213	93.0%	7.0%		
5:30 AM	32	0	11	0	96	37	5	100	0	0	0	0	281	94.3%	5.7%		
5:45 AM	35	0	15	0	103	54	7	152	0	0	0	0	366	93.2%	6.8%		
6:00 AM	35	0	20	0	124	59	9	226	0	0	0	0	473	94.5%	5.5%		
6:15 AM	32	0	22	0	166	77	14	278	0	0	0	0	589	95.4%	4.6%		
6:30 AM	29	0	20	0	203	89	15	345	0	0	0	0	701	94.7%	5.3%		
6:45 AM	25	0	29	0	258	103	14	363	0	0	0	0	792	95.3%	4.7%		
7:00 AM	17	0	34	0	316	132	19	380	0	0	0	0	898	94.8%	5.2%		
7:15 AM	16	0	47	0	363	154	23	399	0	0	0	0	1002	95.3%	4.7%		
7:30 AM	17	0	55	0	413	172	27	399	0	0	0	0	1083	95.9%	4.1%		
7:45 AM	20	0	55	0	411	175	32	395	0	0	0	0	1088	96.0%	4.0%	0.92	AM Peak
8:00 AM	22	0	58	0	409	176	32	363	0	0	0	0	1060	95.2%	4.8%		
8:15 AM	21	0	48	0	381	171	33	342	0	0	0	0	996	94.7%	5.3%		
8:30 AM	30	0	42	0	330	157	28	290	0	0	0	0	877	94.2%	5.8%		
8:45 AM	27	0	40	0	294	144	27	262	0	0	0	0	794	94.2%	5.8%		
9:00 AM	39	0	39	0	242	135	24	263	0	0	0	0	742	95.7%	4.3%		
9:15 AM	38	0	40	0	227	116	16	243	0	0	0	0	680	96.6%	3.4%		

9.45 MM	9:30 AM	35	0	46	0	216	113	21	248	0	0	0	0	679	96.2%	3.8%	
10-15 Au	9:45 AM	39	0	47	0	226	109	19	265	0	0	0	0	705	96.3%	3.7%	
10.30 AM 33	10:00 AM	34	0	40	0	240	107	24	260	0	0	0	0	705	96.7%	3.3%	
10.46 AM 32	10:15 AM	38	0	36	0	242	120	29	251	0	0	0	0	716	96.6%	3.4%	
1045 AM 32 0 38 0 28 145 31 257 0 0 0 746 57.28 289 1110 AM 1110 AM 42 0 36 0 254 1153 27 280 0 0 0 0 763 85.98 4.28 1151 1115 AM 42 0 35 0 277 155 21 28 29 0 0 0 0 0 763 86.88 4.28 1114 AM 48 0 35 0 277 155 21 28 0 0 0 0 0 0 0 0 0	10:30 AM	33	0	38	0	245	130	26	250	0	0	0	0	722	96.8%	3.2%	
11-15 AM	10:45 AM	32	0	36	0	245	145	31	257	0	0	0	0	746	97.2%	2.8%	
11.33 AM	11:00 AM	34	0	39	0	254	153	27	250	0	0	0	0	757	95.9%	4.1%	
11.30 AM	11:15 AM	42	0	40	0	253	146	23	259	0	0	0	0	763	95.8%	4.2%	
11.45 AM	11:30 AM	47	0	35	0	277	155	21	267	0	0	0	0		96.3%	3.7%	
12.00 PM 50			0								0	0					
12:15 PM 52												0					
12-30 PM 53 0 41 0 256 157 19 268 0 0 0 0 794 95.% 4.3% 12-45 PM 77 0 41 0 284 132 20 260 0 0 0 0 794 95.% 4.2% 1-15 PM 49 0 39 0 288 136 26 255 0 0 0 0 0 793 95.% 4.2% 1-15 PM 44 0 44 0 246 0 394 123 29 257 0 0 0 0 0 799 96.% 3.1% 1-15 PM 39 0 0 41 0 394 123 29 257 0 0 0 0 0 813 96.% 4.2% 1-15 PM 36 0 0 46 0 319 145 30 269 0 0 0 0 0 813 96.% 4.6% 146% 1-15 PM 37 0 0 46 0 0 396 152 28 289 0 0 0 0 0 0 884 95.% 4.6% 1-15 PM 37 0 0 46 0 0 354 166 28 347 0 0 0 0 0 0 883 95.% 4.7% 1-15 PM 36 0 0 55 0 384 165 28 314 0 0 0 0 0 0 986 85.% 3.5% 1-15 PM 37 0 0 86 0 372 147 28 347 0 0 0 0 0 0 986 85.% 3.5% 1-15 PM 36 0 0 80 0 372 147 28 348 0 0 0 0 0 0 0 986 85.% 3.5% 1-15 PM 36 0 0 80 0 372 147 28 384 0 0 0 0 0 0 0 1036 97.% 2.4% 1-15 PM 36 0 0 80 0 372 147 28 384 0 0 0 0 0 0 0 1036 97.% 2.4% 1-15 PM 36 0 0 80 0 372 147 28 384 0 0 0 0 0 0 0 1036 97.% 2.4% 1-15 PM 36 0 0 80 0 372 147 28 384 0 0 0 0 0 0 0 1036 97.% 2.4% 1-15 PM 36 0 0 80 0 372 147 28 384 0 0 0 0 0 0 0 1036 97.% 2.4% 1-15 PM 36 0 0 80 0 372 147 28 384 0 0 0 0 0 0 0 1036 97.% 2.4% 1-15 PM 36 0 0 80 0 372 147 28 384 0 0 0 0 0 0 0 1036 97.% 2.4% 1-15 PM 36 0 0 80 0 372 147 28 384 0 0 0 0 0 0 0 1036 97.% 2.4% 1-15 PM 36 0 0 80 0 372 147 28 384 0 0 0 0 0 0 0 1036 97.% 2.4% 1-15 PM 36 0 0 80 0 372 147 28 384 0 0 0 0 0 0 0 1036 97.% 2.4% 1-15 PM 36 0 0 80 0 383 165 22 384 0 0 0 0 0 0 0 1036 97.% 2.4% 1-15 PM 36 0 0 80 0 372 147 28 384 0 0 0 0 0 0 0 1036 97.% 1.1% 1-15 PM 36 0 0 80 0 384 180 180 180 180 180 180 180 180 180 180																	
12.45 PM																	
1:00 PM					-												
1-15 PM												-					
1:30 PM 36 0 46 0 324 123 29 257 0 0 0 0 813 96.3% 3.7% 1.45 PM 36 0 46 0 319 145 30 289 0 0 0 0 0 0 883 95.4% 4.6% 2.00 PM 37 0 46 0 360 162 28 289 0 0 0 0 0 0 883 95.4% 4.6% 2.15 PM 37 0 46 0 360 162 28 289 0 0 0 0 0 0 922 95.3% 4.7% 2.45 PM 36 0 65 0 354 166 28 319 0 0 0 0 0 0 922 95.3% 4.7% 2.45 PM 36 0 65 0 354 166 28 347 0 0 0 0 0 0 996 96.5% 3.5% 3.5% 3.5% 3.15 PM 36 0 80 0 80 0 372 159 28 375 0 0 0 0 0 0 1032 97.3% 2.7% 3.15 PM 36 0 80 0 80 0 372 159 28 375 0 0 0 0 0 0 1030 97.6% 2.4% 3.36 PM 32 0 0 0 0 0 0 1030 97.6% 2.4% 4.15 PM 36 0 0 66 0 372 147 26 36 367 0 0 0 0 0 1036 97.3% 2.7% 4.15 PM 4.15																	
1.45 PM 36 0 46 0 319 145 30 269 0 0 0 0 843 95.4% 4.6% 2.15 PM 37 0 46 0 360 162 28 289 0 0 0 0 883 95.4% 4.6% 2.30 PM 34 0 55 0 368 165 28 319 0 0 0 959 95.9% 4.1% 2.45 PM 36 0 65 0 354 166 28 347 0 0 0 996.9% 4.1% 2.45 PM 36 0 75 0 368 164 28 361 0 0 0 0 998 96.5% 3.35% 3.00 PM 36 0 372 159 28 375 0 0 0 1032 97.3% 2.7% 2.6% 3.45 PM 22 0 76 0 386 156 30 366 0 0 0 <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td>					-												
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7:30 PM 41 0 24 0 141 90 15 130 0 0 0 441 99.5% 0.5% 7:45 PM 36 0 19 0 139 78 11 117 0 0 0 441 99.5% 0.5% 8:00 PM 33 0 12 0 136 87 8 121 0 0 0 397 99.7% 0.3% 8:15 PM 34 0 10 0 137 76 7 121 0 0 0 385 99.7% 0.3% 8:30 PM 36 0 9 0 125 76 9 109 0 0 0 0 364 99.7% 0.3%				29		177		19				-		529	99.1%		
7:45 PM 36 0 19 0 139 78 11 117 0 0 0 400 99.8% 0.2% 8:00 PM 33 0 12 0 136 87 8 121 0 0 0 397 99.7% 0.3% 8:15 PM 34 0 10 0 137 76 7 121 0 0 0 385 99.7% 0.3% 8:30 PM 36 0 9 0 125 76 9 109 0 0 0 0 364 99.7% 0.3%	7:15 PM	42	0	26	0	160	99	19	142	0	0	0	0	488	99.6%	0.4%	
8:00 PM 33 0 12 0 136 87 8 121 0 0 0 397 99.7% 0.3% 8:15 PM 34 0 10 0 137 76 7 121 0 0 0 385 99.7% 0.3% 8:30 PM 36 0 9 0 125 76 9 109 0 0 0 364 99.7% 0.3%	7:30 PM	41	0	24	0	141	90	15	130	0	0	0	0	441	99.5%	0.5%	
8:15 PM 34 0 10 0 137 76 7 121 0 0 0 0 385 99.7% 0.3% 8:30 PM 36 0 9 0 125 76 9 109 0 0 0 0 364 99.7% 0.3%	7:45 PM	36	0	19	0	139	78	11	117	0	0	0	0	400	99.8%	0.2%	
8:30 PM 36 0 9 0 125 76 9 109 0 0 0 364 99.7% 0.3%	8:00 PM	33	0	12	0	136	87	8	121	0	0	0	0	397	99.7%	0.3%	
	8:15 PM	34	0	10	0	137	76	7	121	0	0	0	0	385	99.7%	0.3%	
8:45 PM 33 0 12 0 106 69 9 101 0 0 0 0 330 99.7% 0.3%	8:30 PM	36	0	9	0	125	76	9	109	0	0	0	0	364	99.7%	0.3%	
	8:45 PM	33	0	12	0	106	69	9	101	0	0	0	0	330	99.7%	0.3%	

9:00 PM	27	0	14	0	87	55	10	84	0	0	0	0	277	99.6%	0.4%	
9:15 PM	23	0	13	0	81	58	12	84	0	0	0	0	271	99.3%	0.7%	
9:30 PM	17	0	12	0	79	49	11	86	0	0	0	0	254	98.8%	1.2%	
9:45 PM	16	0	8	0	71	44	10	79	0	0	0	0	228	98.7%	1.3%	
10:00 PM	17	0	7	0	72	37	6	77	0	0	0	0	216	98.1%	1.9%	
10:15 PM	13	0	5	0	61	28	3	61	0	0	0	0	171	98.2%	1.8%	
10:30 PM	11	0	4	0	54	18	3	55	0	0	0	0	145	99.3%	0.7%	
10:45 PM	9	0	4	0	56	14	4	52	0	0	0	0	139	99.3%	0.7%	
11:00 PM	8	0	2	0	46	13	4	49	0	0	0	0	122	99.2%	0.8%	
11:15 PM	6	0	1	0	32	8	4	36	0	0	0	0				
11:30 PM	5	0	0	0	22	6	2	22	0	0	0	0				
11:45 PM	3	0	0	0	9	3	1	11	0	0	0	0	· ·			
Movement Total	590	0	704	0	4543	2154	351	4583	0	0	0	0				Movement Total
PC %	98.8%		98.0%		96.1%	98.4%	96.6%	96.2%								PC %
Heavy Veh %	1.2%		2.0%		3.9%	1.6%	3.4%	3.8%								Heavy Veh %

Washington Blvd. & Thatcher Ave 12/06/2022 12:00 AM

		atcher Aver			ashington B Westbound		Th	natcher Aver Northbound		W	ashington B Eastbound						
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Hourly Total	PC %	Heavy Veh %	Peak Hour Factor	FILTER
12:00 AM	1	6	2	0	6	0	0	6	0	2	11	1	35	100.0%	0.0%		
12:15 AM	1	6	1	0	4	0	0	5	0	1	11	1	30	100.0%	0.0%		
12:30 AM	1	1	1	0	5	0	0	3	0	2	9	0	22	100.0%	0.0%		
12:45 AM	1	1	1	0	4	1	0	3	0	2	7	0	20	100.0%	0.0%		
1:00 AM	1	0	1	0	3	1	0	2	1	1	5	0	15	100.0%	0.0%		
1:15 AM	1	1	3	0	4	1	1	1	1	2	2	0	17	100.0%	0.0%		
1:30 AM	1	2	2	0	3	1	1	1	1	1	1	0	14	100.0%	0.0%		
1:45 AM	1	6	8	0	3	0	1	0	1	3	1	0	24	100.0%	0.0%		
2:00 AM	0	8	8	0	3	0	1	0	0	3	2	0	25	100.0%	0.0%		
2:15 AM	0	8	6	0	3	0	0	0	0	2	2	0	21	100.0%	0.0%		
2:30 AM	0	7	6	0	3	0	0	1	0	3	4	0	24	95.8%	4.2%		
2:45 AM	0	4	1	0	2	0	0	2	0	2	4	0	15	93.3%	6.7%		
3:00 AM	0	5	2	0	1	0	0	4	0	6	4	0	22	95.5%	4.5%		
3:15 AM	1	8	2	0	0	0	0	7	0	7	4	0	29	96.6%	3.4%		
3:30 AM	1	9	3	0	3	0	0	7	0	6	2	0	31	100.0%	0.0%		
3:45 AM	1	11	2	0	6	0	0	7	0	5	5	0	37	100.0%	0.0%		
4:00 AM	1	11	1	0	6	0	0	7	0	1	5	0	32	100.0%	0.0%		
4:15 AM	0	9	2	0	8	0	1	5	0	0	9	0	34	100.0%	0.0%		
4:30 AM	0	14	5	1	14	0	1	7	0	5	14	0	61	96.7%	3.3%		
4:45 AM	1	18	7	1	13	1	1	11	0	8	13	0	74	95.9%	4.1%		
5:00 AM	1	23	11	2	20	1	1	16	0	14	17	0	106	97.2%	2.8%		
5:15 AM	1	35	20	3	29	1	0	20	1	20	18	0	148	98.0%	2.0%		
5:30 AM	1	55	19	2	30	1	1	32	1	23	28	0	193	99.0%	1.0%		
5:45 AM	2	92	37	3	46	1	1	40	1	52	44	2	321	98.8%	1.2%		
6:00 AM	6	116	40	2	49	2	4	47	3	63	89	4	425	98.6%	1.4%		
6:15 AM	7	128	44	1	56	6	4	65	5	74	155	5	550	97.8%	2.2%		
6:30 AM	9	131	49	3	74	12	4	87	11	91	220	7	698	97.6%	2.4%		
6:45 AM	10	112	46	6	90	15	10	127	14	82	280	9	801	97.5%	2.5%		
7:00 AM	7	134	56	6	125	23	13	163	13	82	299	12	933	97.4%	2.6%		
7:15 AM	10	156	67	10	155	25	19	200	12	88	291	20	1053	97.6%	2.4%		
7:30 AM	12	184	85	10	166	23	20	225	11	91	268	21	1116	97.6%	2.4%	0.94	AM Peak
7:45 AM	12	199	89	7	160	23	14	208	10	84	242	17	1065	97.4%	2.6%		
8:00 AM	12	172	78	7	149	17	9	188	15	80	217	13	957	96.8%	3.2%		
8:15 AM	11	142	64	3	117	17	6	164	16	70	181	6	797	96.4%	3.6%		
8:30 AM	7	103	47	3	89	16	6	132	15	50	139	5	612	95.8%	4.2%		
8:45 AM	6	79	34	4	74	13	7	115	14	44	106	7	503	95.6%	4.4%		
9:00 AM	8	74	36	5	60	13	6	107	9	44	85	8	455	96.5%	3.5%		
9:15 AM	5	79	35	6	57	11	4	86	6	40	81	6	416	97.4%	2.6%		

9:30 AM	9	71	35	5	61	8	3	78	4	41	78	6	399	96.5%	3.5%		
9:45 AM	9	75	38	3	73	9	3	86	4	43	81	6	430	96.5%	3.5%		
10:00 AM	6	72	34	2	67	9	3	79	5	37	75	5	394	96.4%	3.6%		
10:15 AM	6	69	36	4	70	6	4	80	7	36	72	5	395	95.2%	4.8%		
10:30 AM	4	83	37	5	71	10	3	78	8	32	77	4	412	95.6%	4.4%		
10:45 AM	4	77	30	5	65	14	2	67	10	26	68	3	371	96.2%	3.8%		
11:00 AM	6	80	32	5	77	15	3	69	9	29	65	3	393	96.4%	3.6%		
11:15 AM	7	79	24	4	81	15	1	77	9	30	62	3	392	96.7%	3.3%		
11:30 AM	6	77	20	4	88	11	2	83	7	32	61	2	393	96.9%	3.1%		
11:45 AM	4	87	31	7	102	9	4	97	5	40	68	1	455	96.7%	3.3%		
12:00 PM	4	91	32	8	95	11	3	103	5	37	74	1	464	96.3%	3.7%		
12:15 PM	6	94	41	7	96	14	3	95	3	35	79	1	474	96.4%	3.6%		
12:30 PM	7	102	49	7	108	16	4	85	2	32	87	3	502	97.0%	3.0%		
12:45 PM	10	102	42	5	102	18	2	75	5	23	90	_ 3	477	95.6%	4.4%		
1:00 PM	12	101	40	5	105	17	2	81	5	20	94	2	484	95.5%	4.5%		
1:15 PM	11	105	37	4	116	14	4	87	8	17	106	4	513	94.5%	5.5%		
1:30 PM	15	96	35	4	105	15	5	96	13	25	113	5	527	94.3%	5.7%		
1:45 PM	14	102	41	4	106	17	5	110	10	36	125	7	577	94.6%	5.4%		
2:00 PM	12	99	48	4	111	14	5	126	9	46	140	12	626	94.6%	5.4%		
2:15 PM	11	106	56	6	118	16	4	142	11	55	146	14	685	95.8%	4.2%		
2:30 PM	9	110	69	9	136	15	4	164	12	68	163	17	776	96.4%	3.6%		
2:45 PM	11	119	86	11	170	14	6	172	13	90	189	21	902	97.3%	2.7%		
3:00 PM	10	130	91	14	209	15	11	167	18	100	212	17	994	97.6%	2.4%		
3:15 PM	15	138	95	14	231	19	13	166	18	113	221	20	1063	97.0%	3.0%		
3:30 PM	13	148	93	10	243	23	11	155	19	114	241	19	1089	96.7%	3.3%	0.91	PM Peak
3:45 PM	12	156	88	8	231	19	11	155	21	99	247	14	1061	96.7%	3.3%		
4:00 PM	11	167	93	6	204	23	8	166	16	104	260	17	1075	97.3%	2.7%		
4:15 PM	6	148	92	4	181	18	8	167	18	103	284	10	1039	98.3%	1.7%		
4:30 PM	6	150	90	4	174	19	8	175	15	104	301	9	1055	98.8%	1.2%		
4:45 PM	9	127	81	4	169	19	9	170	17	109	314	10	1038	99.0%	1.0%		
5:00 PM	11	115	71	2	173	20	8	142	21	100	309	8	980	98.8%	1.2%		
5:15 PM	12	114	71	5	166	20	6	130	20	98	279	9	930	98.7%	1.3%		
5:30 PM	12	100	61	4	144	15	7	109	18	87	234	7	798	98.9%	1.1%		
5:45 PM	8	98	55	6	117	13	5	89	12	70	203	8	684	99.0%	1.0%		
6:00 PM	7	89	52	6	95	6	5	84	10	69	166	8	597	99.3%	0.7%		
6:15 PM	5	83	38	3	84	7	4	71	4	59	137	7	502	99.6%	0.4%		
6:30 PM	4	73	35	3	69	11	3	67	3	50	110	7	435	99.8%	0.2%		
6:45 PM	2	66	29	1	56	10	2	60	3	45	78	5	357	99.7%	0.3%		
7:00 PM	1	55	24	2	42	10	2	52	1	35	60	3	287	100.0%	0.0%		
7:15 PM	1	45	18	2	31	9	3	47	2	26	58	3	245	99.6%	0.4%		
7:30 PM	0	41	12	2	30	4	2	40	3	22	52	2	210	99.5%	0.5%		
7:45 PM	0	31	9	3	37	4	2	40	3	20	43	2	194	99.5%	0.5%		
8:00 PM	0	26	9	2	34	3	1	41	3	11	40	2	172	99.4%	0.6%		
8:15 PM	0	29	12	2	36	1	1	43	2	8	33	2	169	100.0%	0.0%		
8:30 PM	0 0	30 35	14 15	2 0	32 25	1 1	2 2	38 31	0 0	12 15	30	1 0	162	100.0% 100.0%	0.0% 0.0%		
8:45 PM											26		150				

Heavy Veh %	2.5%	2.7%	4.7%	2.5%	2.1%	2.9%	2.3%	3.2%	9.0%	1.2%	1.4%	12.1%				Heavy Veh %
PC %	97.5%	97.3%	95.3%	97.5%	97.9%	97.1%	97.7%	96.8%	91.0%	98.8%	98.6%	87.9%				PC %
Movement Total	118	1627	784	80	1686	204	88	1694	145	929	2285	116				Movement Total
11:45 PM	0	2	0	0	0	0	0	0	0	1	1	0				
11:30 PM	0	3	0	0	2	1	0	1	0	1	5	0				
11:15 PM	0	12	1	0	7	1	1	6	0	6	14	0				
11:00 PM	0	13	1	0	8	2	1	9	0	10	18	0	62	100.0%	0.0%	
10:45 PM	0	11	1	0	12	2	1	11	0	13	22	0	73	100.0%	0.0%	
10:30 PM	1	14	4	0	13	1	1	13	1	18	22	0	88	100.0%	0.0%	
10:15 PM	1	8	6	1	10	1	0	10	1	13	17	0	68	100.0%	0.0%	
10:00 PM	1	9	9	2	18	0	0	12	1	18	21	0	91	100.0%	0.0%	
9:45 PM	1	12	11	2	19	1	0	13	2	16	19	0	96	100.0%	0.0%	
9:30 PM	0	18	11	2	21	1	0	13	1	18	20	0	105	100.0%	0.0%	
9:15 PM	0	25	12	1	24	2	1	18	1	25	20	0	129	100.0%	0.0%	
9:00 PM	0	31	13	0	26	2	2	23	1	17	17	0	132	100.0%	0.0%	

Washington Blvd. & Lathrop Avenue 12/06/2022 12:00 AM

		throp Aven Southbound			ashington B Westbound			athrop Aven Northbound		W	ashington B Eastbound						
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Hourly Total	PC %	Heavy Veh %	Peak Hour Factor	FILTER
12:00 AM	4	5	0	1	7	3	0	6	1	0	13	1	41	100.0%	0.0%		
12:15 AM	2	4	0	0	5	3	0	4	0	0	13	1	32	100.0%	0.0%		
12:30 AM	1	3	0	1	6	4	0	3	0	0	10	1	29	100.0%	0.0%		
12:45 AM	0	3	0	1	5	4	0	4	0	0	8	1	26	100.0%	0.0%		
1:00 AM	2	3	0	1	4	3	0	4	1	1	5	0	24	100.0%	0.0%		
1:15 AM	2	3	0	1	5	3	1	3	2	1	2	0	23	100.0%	0.0%		
1:30 AM	2	3	0	0	4	0	1	3	3	1	1	0	18	100.0%	0.0%		
1:45 AM	3	2	0	0	3	0	1	4	3	1	1	0	18	100.0%	0.0%		
2:00 AM	2	1	0	0	3	0	1	3	2	0	2	0	14	100.0%	0.0%		
2:15 AM	3	2	0	1	3	0	0	3	1	0	2	0	15	100.0%	0.0%		
2:30 AM	3	4	0	1	3	1	0	2	0	0	2	0	16	100.0%	0.0%		
2:45 AM	2	6	0	1	2	2	0	0	0	0	3	0	16	100.0%	0.0%		
3:00 AM	2	6	1	1	2	2	0	1	0	0	3	0	18	100.0%	0.0%		
3:15 AM	1	5	1	0	3	2	0	2	0	0	3	0	17	100.0%	0.0%		
3:30 AM	1	2	2	0	4	1	0	2	0	0	3	0	15	100.0%	0.0%		
3:45 AM	1	2	2	0	5	0	0	2	1	0	4	0	17	100.0%	0.0%		
4:00 AM	0	5	1	1	4	3	0	10	1	0	7	0	32	96.9%	3.1%		
4:15 AM	3	8	2	2	4	5	0	9	1	0	12	0	46	95.7%	4.3%		
4:30 AM	3	13	3	2	8	9	0	15	1	2	16	0	72	97.2%	2.8%		
4:45 AM	6	16	3	2	11	12	1	20	1	3	16	0	91	95.6%	4.4%		
5:00 AM	9	19	6	1	17	12	1	24	3	3	17	0	112	95.5%	4.5%		
5:15 AM	10	25	8	0	27	16	1	34	3	6	20	0	150	96.7%	3.3%		
5:30 AM	17	31	9	1	31	16	1	42	3	7	30	0	188	96.8%	3.2%		
5:45 AM	21	37	16	2	44	19	0	63	3	11	49	0	265	97.7%	2.3%		
6:00 AM	28	41	16	2	48	29	0	65	3	19	96	0	347	98.3%	1.7%		
6:15 AM	36	38	19	4	51	34	1	85	9	19	163	0	459	98.3%	1.7%		
6:30 AM	49	36	26	3	74	42	1	99	12	31	242	0	615	97.9%	2.1%		
6:45 AM	61	38	26	2	96	54	3	120	13	38	320	2	773	97.9%	2.1%		
7:00 AM	72	40	49	3	137	59	7	150	17	39	345	3	921	98.0%	2.0%		
7:15 AM	88	54	64	2	166	6 <mark>7</mark>	8	187	16	55	338	4	1049	98.1%	1.9%		
7:30 AM	105	60	73	2	169	66	8	204	17	53	316	4	1077	98.5%	1.5%	0.91	AM Peak
7:45 AM	105	67	78	3	166	67	9	205	17	50	274	4	1045	98.5%	1.5%		
8:00 AM	107	75	67	4	148	61	8	206	17	51	250	3	997	97.5%	2.5%		
8:15 AM	109	65	59	3	127	55	6	191	15	43	214	2	889	97.2%	2.8%		
8:30 AM	86	65	43	3	108	51	7	179	12	35	170	3	762	96.6%	3.4%		
8:45 AM	82	61	37	4	85	47	5	164	16	31	140	2	674	96.6%	3.4%		
9:00 AM	81	61	29	4	69	46	2	155	11	31	110	3	602	98.0%	2.0%		
9:15 AM	68	59	23	5	59	45	3	127	12	26	108	6	541	98.2%	1.8%		

9:30 AM	68	64	45	8	58	48	2	128	13	29	113	5	581	98.5%	1.5%		I
9:45 AM	66	64	45	7	57	47	1	121	8	29	113	6	564	98.4%	1.6%		
10:00 AM	63	58	45	5	54	50	1	120	11	30	118	5	560	98.0%	2.0%		
10:15 AM	67	60	49	4	56	59	2	138	8	31	113	3	590	97.6%	2.4%		
10:30 AM	69	60	35	4	64	64	4	142	6	26	109	5	588	96.9%	3.1%		
10:45 AM	77	58	42	4	74	65	5	157	6	27	104	4	623	97.3%	2.7%		
11:00 AM	82	62	46	6	86	65	5	166	8	22	94	7	649	97.4%	2.6%		
11:15 AM	77	69	53	7	84	54	3	156	11	26	89	7	636	97.5%	2.5%		
11:30 AM	80	70	46	4	98	56	5	163	15	35	85	6	663	97.9%	2.1%		
11:45 AM	83	73	44	3	102	51	5	171	17	38	86	5	678	97.8%	2.2%		
12:00 PM	75	74	41	3	105	50	5	167	15	42	92	4	673	97.5%	2.5%		
12:15 PM	85	79	31	6	120	54	5	172	14	36	105	3	710	97.7%	2.3%		
12:30 PM	91	78	38	6	122	53	1	171	15	30	114	2	721	98.1%	1.9%		
12:45 PM	91	85	36	7	117	61	3	148	17	26	125	3	719	98.1%	1.9%		
1:00 PM	103	83	37	7	116	64	8	149	18	23	135	1	744	98.1%	1.9%		
1:15 PM	101	82	40	5	120	62	9	152	16	23	137	2	749	98.1%	1.9%		
1:30 PM	93	74	37	6	107	59	10	141	15	23	145	4	714	97.6%	2.4%		
1:45 PM	94	73	42	6	123	54	7	162	12	27	161	3	764	97.4%	2.6%		
2:00 PM	93	77	39	5	130	50	2	169	11	28	176	4	784	97.6%	2.4%		
2:15 PM	104	76	43	6	138	49	1	175	17	37	190	7	843	98.0%	2.0%		
2:30 PM	122	84	60	6	158	52	1	183	21	38	202	6	933	98.4%	1.6%		
2:45 PM	137	96	68	5	183	57	3	176	22	41	219	9	1016	98.8%	1.2%		
3:00 PM	136	104	80	5	216	59	6	174	26	50	251	9	1116	98.8%	1.2%		\neg
3:15 PM	135	108	79	5	235	59	6	163	21	53	260	6	1130	98.4%	1.6%		
3:30 PM	135	106	68	6	247	57	6	155	23	62	272	6	1143	98.5%	1.5%		
3:45 PM	139	82	61	8	244	55	5	159	21	64	290	4	1132	98.4%	1.6%		
4:00 PM	148	73	57	9	225	63	4	147	16	65	280	4	1091	98.5%	1.5%		
4:15 PM	152	74	60	6	209	73	5	168	21	65	317	5	1155	99.2%	0.8%		
4:30 PM	154	76	63	6	202	80	5	174	14	68	339	6	1187	99.2%	0.8%		
4:45 PM	145	86	65	6	186	78	4	186	18	70	349	7	1200	99.3%	0.7%		
5:00 PM	136	100	69	6	189	75	5	184	19	68	356	7	1214	99.5%	0.5%	0.94 PM Peak	
5:15 PM	139	90	68	7	178	72	4	168	16	65	323	6	1136	99.2%	0.8%	o.o. Imroun	
5:30 PM	134	91	61	7	159	60	4	159	16	54	288	5	1038	99.2%	0.8%		
5:45 PM	115	90	55	5	137	55	6	144	13	48	252	3	923	99.3%	0.7%		
6:00 PM	113	72	44	6	108	41	5	135	10	36	215	3	788	99.1%	0.9%		
6:15 PM	88	72	31	7	103	31	7	118	7	26	166	3	659	99.4%	0.6%		
6:30 PM	73	65	27	5	87	31	6	119	5	19	131	2	570	99.5%	0.5%		
6:45 PM	71	63	21	5	76	28	4	114	6	17	88	3	496	99.4%	0.6%		—
7:00 PM	52	66	18	2	69	32	2	111	7	14	71	2	446	99.6%	0.4%		
7:00 FM 7:15 PM	52 51	65	20	2	59	28	1	108	9	10	72	2	427	99.5%	0.4 %		
7:13 FM 7:30 PM	44	61	16	2	61	23	1	95	10	10	70	2	395	99.5%	0.5%		
7:45 PM	35	53	14	3	63	20	3	95 78	7	4	67	1	348	99.5%	0.3%		
8:00 PM	40	45	14	3	54	15	3	76 79	8	5	54	1	346 321	100.0%	0.3%		
				3 1	50		3 2		6	5 5	54 47				0.0%		
8:15 PM 8:30 PM	34	45 47	13 14	1		17 17	2	68 70	5	5 4		0 0	288	100.0%	0.0%		
	32		14	-	35 37				5 7	-	36 27		263	100.0%			
8:45 PM	32	44	13	1	27	17	1	58	1	2	27	0	229	100.0%	0.0%		

9:00 PM	25	37	9	1	28	16	1	52	6	0	21	0	196	100.0%	0.0%	
9:15 PM	23	33	9	3	26	11	1	59	6	1	23	1	196	100.0%	0.0%	
9:30 PM	19	24	11	7	23	10	1	51	5	2	23	1	177	99.4%	0.6%	
9:45 PM	19	21	11	6	24	8	0	48	4	3	24	1	169	99.4%	0.6%	
10:00 PM	18	20	11	7	20	6	0	36	4	5	21	1	149	99.3%	0.7%	
10:15 PM	12	12	8	5	11	5	0	26	5	5	19	0	108	99.1%	0.9%	
10:30 PM	10	11	4	1	15	3	0	17	5	4	19	0	89	100.0%	0.0%	
10:45 PM	7	8	2	1	11	4	0	15	5	3	18	0	74	100.0%	0.0%	
11:00 PM	8	6	3	0	9	3	0	14	3	1	18	0	65	98.5%	1.5%	
11:15 PM	7	4	2	0	7	3	0	8	1	0	11	0				
11:30 PM	5	2	1	0	3	2	0	5	1	0	7	0				
11:45 PM	3	1	1	0	2	0	0	3	0	0	2	0				
Movement Total	1399	1133	682	83	1848	807	66	2327	218	533	2750	58				Movement Total
PC %	99.5%	98.4%	97.4%	98.8%	97.9%	98.9%	97.0%	98.5%	96.8%	97.4%	98.5%	100.0%				PC %
Heavy Veh %	0.5%	1.6%	2.6%	1.2%	2.1%	1.1%	3.0%	1.5%	3.2%	2.6%	1.5%	0.0%				Heavy Veh %

Lake Street & Thatcher Avenue 12/06/2022 12:00 AM

		atcher Aver			Lake Stree		Th	atcher Aver			Lake Street						
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Hourly Total	PC %	Heavy Veh %	Peak Hour Factor	FILTER
12:00 AM	1	8	0	3	14	2	1	7	0	0	20	3	59	100.0%	0.0%		
12:15 AM	1	6	0	2	16	1	0	5	0	0	13	2	46	100.0%	0.0%		
12:30 AM	1	1	0	2	17	1	0	3	0	0	9	1	35	100.0%	0.0%		
12:45 AM	1	1	0	2	14	1	1	3	0	0	11	1	35	100.0%	0.0%		
1:00 AM	1	1	0	1	16	1	1	2	0	0	14	0	37	100.0%	0.0%		
1:15 AM	0	3	0	1	17	0	2	2	0	0	13	2	40	100.0%	0.0%		
1:30 AM	0	3	0	0	12	2	2	2	0	0	15	2	38	100.0%	0.0%		
1:45 AM	0	4	0	0	10	2	3	1	0	1	16	11	48	100.0%	0.0%		
2:00 AM	0	5	0	0	10	3	3	1	0	1	17	11	51	98.0%	2.0%		
2:15 AM	0	4	0	0	7	4	2	2	0	1	16	9	45	97.8%	2.2%		
2:30 AM	1	4	0	0	7	2	3	3	0	1	14	9	44	95.5%	4.5%		
2:45 AM	3	5	0	0	9	2	1	4	0	1	10	1	36	91.7%	8.3%		
3:00 AM	3	5	0	0	9	3	9	4	0	1	8	3	45	95.6%	4.4%		
3:15 AM	4	8	0	0	10	2	10	3	1	1	13	4	56	96.4%	3.6%		
3:30 AM	4	11	1	0	19	3	10	3	1	2	16	4	74	97.3%	2.7%		
3:45 AM	2	12	1	0	26	5	11	2	1	1	21	4	86	95.3%	4.7%		
4:00 AM	3	14	1	0	32	4	4	4	1	2	30	3	98	90.8%	9.2%		
4:15 AM	3	13	2	1	41	4	4	5	0	2	34	3	112	87.5%	12.5%		
4:30 AM	4	17	4	1	50	4	3	9	1	1	43	8	145	89.0%	11.0%		
4:45 AM	6	20	5	1	65	5	8	21	1	1	59	7	199	89.9%	10.1%		
5:00 AM	7	30	8	2	70	8	13	32	2	0	61	8	241	92.5%	7.5%		
5:15 AM	11	39	10	1	71	13	15	40	3	0	78	20	301	94.7%	5.3%		
5:30 AM	16	66	7	1	89	15	21	47	9	7	113	30	421	94.8%	5.2%		
5:45 AM	29	112	7	4	101	21	38	67	14	8	159	48	608	96.1%	3.9%		
6:00 AM	45	141	8	7	131	26	40	83	17	12	225	55	790	95.6%	4.4%		
6:15 AM	54	175	8	11	158	31	47	103	21	20	271	47	946	95.2%	4.8%		
6:30 AM	73	192	10	14	171	39	55	139	28	18	323	36	1098	95.4%	4.6%		
6:45 AM	85	202	11	14	190	40	42	171	34	22	376	28	1215	95.4%	4.6%		
7:00 AM	92	226	16	15	206	43	55	192	41	24	393	28	1331	95.8%	4.2%		
7:15 AM	105	261	15	18	223	41	61	241	44	26	406	44	1485	96.2%	3.8%		
7:30 AM	93	286	22	23	239	47	68	276	42	28	386	56	1566	96.4%	3.6%	0.95	AM Peak
7:45 AM	85	284	24	25	235	54	75	265	33	29	325	56	1490	95.8%	4.2%		
8:00 AM	79	251	18	25	222	50	67	248	30	27	312	55	1384	95.5%	4.5%		
8:15 AM	61	199	19	23	215	51	66	215	27	19	294	40	1229	95.0%	5.0%		
8:30 AM	71	149	13	18	192	38	57	165	21	20	282	29	1055	94.2%	5.8%		
8:45 AM	70	120	16	19	184	28	48	140	25	18	278	27	973	95.0%	5.0%		
9:00 AM	65	110	18	19	183	27	42	143	22	18	254	25	926	94.3%	5.7%		
9:15 AM	79	108	20	21	175	24	35	114	21	19	227	27	870	94.4%	5.6%		

9:30 AM	72	100	20	22	170	25	33	99	24	14	217	28	824	94.5%	5.5%		
9:45 AM	71	93	15	22	178	26	34	103	20	16	225	33	836	93.7%	6.3%		
10:00 AM	84	101	11	22	179	33	32	88	24	14	225	32	845	94.1%	5.9%		
10:15 AM	73	115	8	19	186	38	28	98	25	15	231	26	862	94.2%	5.8%		
10:30 AM	70	124	9	20	195	49	24	109	18	14	231	23	886	94.2%	5.8%		
10:45 AM	68	130	13	20	190	54	21	102	23	9	232	16	878	94.9%	5.1%		
11:00 AM	60	138	16	16	194	52	23	100	25	10	233	23	890	95.8%	4.2%		
11:15 AM	62	125	15	16	199	54	26	99	30	8	235	25	894	96.5%	3.5%		
11:30 AM	62	130	13	19	200	47	26	96	38	13	228	26	898	96.1%	3.9%		
11:45 AM	66	138	10	17	206	47	33	110	40	14	213	31	925	96.5%	3.5%		
12:00 PM	62	127	12	21	198	52	32	119	35	15	199	20	892	95.9%	4.1%		
12:15 PM	66	143	14	20	208	47	33	114	30	15	218	17	925	94.6%	5.4%		
12:30 PM	77	162	16	19	205	44	34	102	26	8	223	23	939	95.4%	4.6%		
12:45 PM	79	160	14	18	218	45	35	85	25	14	219	_ 17	929	94.0%	6.0%		
1:00 PM	86	172	21	24	224	39	40	86	23	14	224	25	978	94.3%	5.7%		
1:15 PM	83	160	25	33	217	47	35	94	25	13	213	33	978	94.6%	5.4%		
1:30 PM	78	154	25	32	227	52	36	105	24	18	206	33	990	94.3%	5.7%		
1:45 PM	82	172	29	32	217	58	26	120	29	14	242	37	1058	94.9%	5.1%		
2:00 PM	97	186	21	33	214	58	30	141	33	18	257	36	1124	94.9%	5.1%		
2:15 PM	116	201	24	31	228	56	32	152	39	21	270	40	1210	95.9%	4.1%		
2:30 PM	123	220	31	40	246	74	48	186	47	19	303	39	1376	96.5%	3.5%		
2:45 PM	131	229	32	48	260	64	58	220	47	19	302	47	1457	97.4%	2.6%		
3:00 PM	124	235	36	42	286	68	56	227	49	16	310	49	1498	97.6%	2.4%		
3:15 PM	128	266	33	44	283	73	63	242	46	17	326	46	1567	97.4%	2.6%		
3:30 PM	136	257	28	39	274	54	52	240	44	15	333	49	1521	97.1%	2.9%		
3:45 PM	145	282	32	38	300	54	49	226	43	19	315	42	1545	97.4%	2.6%		
4:00 PM	148	291	33	43	287	49	48	237	48	21	357	40	1602	98.0%	2.0%		
4:15 PM	143	271	32	38	306	51	46	246	49	24	348	38	1592	98.3%	1.7%		
4:30 PM	146	283	30	39	316	56	43	251	49	29	372	34	1648	99.0%	1.0%	0.98	PM Peak
4:45 PM	144	245	27	39	290	64	42	250	50	28	416	29	1624	98.9%	1.1%		
5:00 PM	140	231	19	33	306	65	40	231	43	26	406	28	1568	98.7%	1.3%		
5:15 PM	134	213	18	34	286	51	40	202	46	22	422	31	1499	98.9%	1.1%		
5:30 PM	123	192	17	32	281	53	36	184	44	21	403	30	1416	98.9%	1.1%		
5:45 PM	104	182	12	28	276	43	31	154	35	16	357	28	1266	99.1%	0.9%		
6:00 PM	95	161	16	28	252	40	29	135	33	14	326	27	1156	99.0%	1.0%		
6:15 PM	86	141	14	24	236	39	28	128	26	12	284	25	1043	99.0%	1.0%		
6:30 PM	71	120	13	20	208	30	29	106	21	11	225	28	882	98.8%	1.2%		
6:45 PM	64	100	13	15	172	30	27	94	17	12	202	28	774	98.4%	1.6%		
7:00 PM	54	88	12	13	157	28	24	76	17	13	153	29	664	98.0%	2.0%		
7:15 PM	50	76	11	12	148	26	19	59	12	15	134	22	584	97.9%	2.1%		
7:30 PM	50	69	11	8	141	22	15	53	9	14	139	14	545	98.0%	2.0%		
7:45 PM	44	65	11	8	138	19	13	51	12	15	127	12	515	97.9%	2.1%		
8:00 PM	40	56	6	7	133	16	13	47	6	11	134	9	478	98.5%	1.5%		
8:15 PM	33	54	7	8	125	15	10	48	7	7	135	10	459	98.5%	1.5%		
8:30 PM	26	43	8	11	124	21	13	45	6	5	124	12	438	98.4%	1.6%		
8:45 PM	20	41	8	12	117	17	17	39	4	2	114	14	405	98.8%	1.2%		
0.70 I W	20	71	J	12	117	.,	17	00	7	_	117	17	400	30.070	1.2/0		

Heavy Veh %	0.8%	2.0%	1.8%	4.6%	5.3%	1.4%	2.4%	1.9%	5.5%	3.4%	4.9%	3.0%				Heavy Veh %
PC %	99.2%	98.0%	98.2%	95.4%	94.7%	98.6%	97.6%	98.1%	94.5%	96.6%	95.1%	97.0%				PC %
Movement Total	1322	2643	284	370	3521	694	633	2270	458	263	4394	541				Movement Total
11:45 PM	2	3	0	0	12	2	0	1	0	1	8	0				
11:30 PM	3	4	1	0	22	2	2	2	0	2	23	0				
11:15 PM	3	11	1	0	34	4	3	11	0	2	42	4				
11:00 PM	4	15	1	0	42	4	6	16	0	2	59	5	154	96.1%	3.9%	
10:45 PM	7	13	2	0	37	4	8	15	1	1	63	6	157	96.8%	3.2%	
10:30 PM	8	20	3	0	46	4	8	17	2	0	72	10	190	96.8%	3.2%	
10:15 PM	12	16	3	0	49	4	8	11	2	1	68	9	183	95.6%	4.4%	
10:00 PM	14	20	3	3	54	6	9	13	4	2	76	16	220	96.8%	3.2%	
9:45 PM	13	23	2	6	63	7	11	20	4	2	87	16	254	96.9%	3.1%	
9:30 PM	13	29	2	8	64	8	14	23	4	3	79	15	262	97.7%	2.3%	
9:15 PM	14	33	5	12	82	16	19	34	4	3	93	16	331	98.5%	1.5%	
9:00 PM	18	31	8	13	102	17	16	38	5	2	101	11	362	98.9%	1.1%	

Lake Street & Lathrop Avenue 12/06/2022 12:00 AM

		throp Aven			Lake Stree			athrop Aven			Lake Stree						
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Hourly Total	PC %	Heavy Veh %	Peak Hour Factor	FILTER
12:00 AM	0	1	1	0	15	1	5	4	1	0	18	7	53	100.0%	0.0%		
12:15 AM	0	1	1	0	20	1	5	2	1	0	8	6	45	100.0%	0.0%		
12:30 AM	0	2	1	1	18	0	4	2	1	0	7	3	39	100.0%	0.0%		
12:45 AM	0	2	0	3	16	0	3	2	1	0	9	2	38	100.0%	0.0%		
1:00 AM	0	1	0	3	16	0	4	4	1	0	15	1	45	100.0%	0.0%		
1:15 AM	0	3	0	3	12	0	6	4	2	0	14	1	45	100.0%	0.0%		
1:30 AM	0	2	0	2	11	0	5	2	3	0	15	2	42	100.0%	0.0%		
1:45 AM	0	2	0	0	8	0	6	4	4	0	16	3	43	100.0%	0.0%		
2:00 AM	0	2	0	0	6	0	5	2	3	0	12	4	34	97.1%	2.9%		
2:15 AM	0	1	0	0	3	0	4	3	2	0	10	6	29	96.6%	3.4%		
2:30 AM	0	2	0	0	2	0	4	3	1	0	9	6	27	96.3%	3.7%		
2:45 AM	0	2	0	1	4	0	2	2	0	0	5	8	24	91.7%	8.3%		
3:00 AM	0	2	0	2	5	0	5	3	0	0	4	9	30	96.7%	3.3%		
3:15 AM	0	1	0	5	5	0	5	2	0	0	7	11	36	94.4%	5.6%		
3:30 AM	0	0	0	6	13	0	7	3	0	0	9	12	50	94.0%	6.0%		
3:45 AM	0	1	0	7	18	0	9	3	0	0	13	10	61	91.8%	8.2%		
4:00 AM	0	2	0	6	19	0	11	5	0	0	21	12	76	86.8%	13.2%		
4:15 AM	0	5	1	3	32	0	13	7	0	0	26	13	100	86.0%	14.0%		
4:30 AM	0	8	1	4	33	0	20	9	0	0	32	18	125	88.0%	12.0%		
4:45 AM	1	12	1	2	46	1	25	11	2	0	47	26	174	87.9%	12.1%		
5:00 AM	4	20	1	4	52	1	29	13	5	0	55	23	207	90.8%	9.2%		
5:15 AM	4	30	2	8	49	1	33	18	6	0	73	31	255	93.3%	6.7%		
5:30 AM	6	50	3	9	66	2	35	27	8	2	108	41	357	93.8%	6.2%		
5:45 AM	9	67	3	16	77	3	52	47	9	3	159	43	488	95.3%	4.7%		
6:00 AM	11	81	4	22	105	4	64	63	12	5	233	51	655	95.6%	4.4%		
6:15 AM	21	93	2	30	140	5	77	83	15	8	288	47	809	95.6%	4.4%		
6:30 AM	31	110	4	44	150	8	104	115	22	14	344	49	995	96.5%	3.5%		
6:45 AM	39	148	6	49	184	11	111	151	25	18	405	49	1196	96.8%	3.2%		
7:00 AM	44	169	19	69	223	18	121	186	24	20	415	49	1357	96.7%	3.3%		
7:15 AM	51	196	33	88	264	23	128	220	32	24	405	56	1520	96.7%	3.3%		
7:30 AM	54	213	41	114	305	22	115	227	31	27	394	45	1588	96.5%	3.5%	0.99	AM Peak
7:45 AM	63	200	44	122	288	25	108	210	38	23	340	44	1505	95.9%	4.1%		
8:00 AM	65	208	36	111	262	28	88	200	47	27	331	44	1447	95.9%	4.1%		
8:15 AM	57	194	26	97	230	25	81	191	46	29	329	41	1346	95.6%	4.4%		
8:30 AM	52	160	21	74	198	27	69	184	52	21	321	43	1222	95.4%	4.6%		
8:45 AM	39	149	23	71	198	23	60	177	50	25	314	53	1182	96.0%	4.0%		
9:00 AM	41	137	28	72	195	18	64	160	47	19	293	58	1132	95.9%	4.1%		
9:15 AM	44	131	29	64	188	20	55	135	47	12	267	60	1052	96.2%	3.8%		

9:30 AM	37	156	28	62	195	26	53	117	49	10	262	60	1055	96.1%	3.9%		
9:45 AM	40	135	24	68	210	27	51	117	48	14	267	50	1051	95.1%	4.9%		
10:00 AM	44	119	18	65	224	25	56	126	51	19	279	52	1078	95.2%	4.8%		
10:15 AM	45	116	19	75	232	26	62	139	49	21	296	54	1134	95.2%	4.8%		
10:30 AM	53	103	18	73	237	24	75	155	51	25	282	54	1150	95.2%	4.8%		
10:45 AM	57	121	26	68	227	29	77	166	55	21	291	51	1189	96.2%	3.8%		
11:00 AM	57	133	26	77	211	39	82	171	54	20	291	44	1205	96.8%	3.2%		
11:15 AM	63	138	28	72	218	40	85	170	61	18	299	39	1231	97.2%	2.8%		
11:30 AM	64	139	27	73	229	39	78	176	60	17	302	41	1245	97.1%	2.9%		
11:45 AM	74	138	20	81	231	30	92	166	55	17	270	57	1231	97.4%	2.6%		
12:00 PM	69	131	19	80	243	25	87	162	55	15	250	62	1198	97.2%	2.8%		
12:15 PM	67	141	18	85	243	25	86	153	55	20	256	68	1217	96.7%	3.3%		
12:30 PM	68	149	21	85	233	26	82	148	52	18	258	76	1216	96.5%	3.5%		
12:45 PM	57	159	22	77	241	33	80	146	57	21	266	70	1229	95.8%	4.2%		
1:00 PM	61	174	22	80	253	31	76	144	60	23	275	69	1268	95.6%	4.4%		
1:15 PM	57	166	16	87	262	29	80	158	60	18	275	62	1270	95.7%	4.3%		
1:30 PM	58	156	16	94	277	35	84	148	53	19	275	57	1272	96.0%	4.0%		
1:45 PM	62	165	29	100	286	36	86	168	50	14	303	55	1354	96.0%	4.0%		
2:00 PM	58	163	46	90	295	41	106	180	47	17	310	54	1407	96.5%	3.5%		
2:15 PM	62	166	55	92	309	44	111	189	38	28	316	60	1470	96.9%	3.1%		
2:30 PM	70	188	59	110	317	39	121	201	51	39	345	65	1605	97.6%	2.4%		
2:45 PM	65	208	47	123	332	36	123	207	51	41	344	74	1651	98.1%	1.9%		
3:00 PM	70	224	30	131	331	36	109	227	51	35	371	90	1705	98.2%	1.8%		
3:15 PM	73	236	23	127	327	37	102	225	57	33	395	98	1733	98.3%	1.7%		
3:30 PM	80	239	20	109	317	34	102	226	45	28	409	100	1709	98.2%	1.8%		
3:45 PM	83	231	17	101	315	36	106	233	48	31	430	100	1731	98.2%	1.8%		
4:00 PM	78	236	15	106	295	33	118	233	49	38	439	88	1728	98.5%	1.5%		
4:15 PM	77	245	17	102	312	34	123	257	55	34	463	88	1807	98.5%	1.5%		
4:30 PM	66	240	16	100	312	32	127	281	55	33	467	97	1826	98.7%	1.3%	0.93	PM Peak
4:45 PM	63	227	16	96	293	34	130	258	55	34	488	107	1801	98.8%	1.2%		
5:00 PM	63	216	18	87	315	30	127	245	58	35	497	111	1802	98.7%	1.3%		
5:15 PM	59	201	16	86	278	30	131	230	51	36	491	108	1717	98.8%	1.2%		
5:30 PM	52	183	14	89	279	33	122	211	56	33	480	98	1650	98.7%	1.3%		
5:45 PM	49	174	18	86	277	25	110	213	59	27	426	87	1551	98.8%	1.2%		
6:00 PM	39	153	14	80	244	24	97	191	52	19	386	86	1385	98.9%	1.1%		
6:15 PM	29	136	13	75	240	20	80	156	52	12	332	90	1235	99.0%	1.0%		
6:30 PM	20	119	9	59	216	16	71	141	43	11	278 247	77	1060	98.8%	1.2%		
6:45 PM	15	99	3	46	194	19	58 50	128	35	11		65 53	920	98.6%	1.4%		
7:00 PM	21 17	86 75	4	45	191	25 24	59 57	118	28 19	10	202	52	841	98.3%	1.7% 1.6%		
7:15 PM			2 3	42	184			110		12	165 169	42 50	749 736	98.4%			
7:30 PM 7:45 PM	18 16	73 70	3 5	44	170	26 25	53 48	102 95	21	8 7	168 152	50 47	736 604	98.5% 98.4%	1.5% 1.6%		
7:45 PM 8:00 PM		70 70	5 5	46	165		48 34		18 27	<i>7</i> 5			694 654				
	11			39	157	16 12		93			147	50 46	654 637	98.9%	1.1%		
8:15 PM 8:30 PM	12 10	66 60	9 8	43 42	143	12 7	33 33	88 72	28 26	2	145	46 39	627 563	98.4% 98.0%	1.6% 2.0%		
	9		8 7	42 39	143	7	33 26	72 57		6 5	117 107	39 37					
8:45 PM	9	49	1	39	125	1	20	5/	21	Э	107	31	489	98.6%	1.4%		

Heavy Veh %	1.7%	1.7%	4.5%	2.2%	4.1%	3.2%	2.5%	1.0%	2.5%	2.9%	3.8%	3.2%				Heavy Veh %
PC %	98.3%	98.3%	95.5%	97.8%	95.9%	96.8%	97.5%	99.0%	97.5%	97.1%	96.2%	96.8%				PC %
Movement Total	747	2385	312	1226	3855	412	1407	2627	692	314	5059	1085				Movement Total
11:45 PM	0	2	0	0	9	1	2	0	0	0	6	3				
11:30 PM	0	2	0	0	14	1	5	4	1	0	19	7				
11:15 PM	0	3	0	0	25	3	10	9	1	0	34	10				
11:00 PM	0	4	0	3	32	3	12	11	2	0	50	11	128	95.3%	4.7%	
10:45 PM	0	5	0	6	32	4	12	20	3	1	57	16	156	97.4%	2.6%	
10:30 PM	1	8	0	6	41	5	12	26	2	2	62	21	186	97.3%	2.7%	
10:15 PM	5	10	0	8	45	6	11	29	6	2	63	22	207	96.1%	3.9%	
10:00 PM	6	17	0	14	53	7	16	35	6	2	68	25	249	97.6%	2.4%	
9:45 PM	6	19	0	18	67	6	25	42	8	1	80	23	295	96.6%	3.4%	
9:30 PM	7	23	2	26	73	9	23	43	9	1	80	20	316	97.5%	2.5%	
9:15 PM	4	31	2	34	92	7	29	47	9	5	88	25	373	97.9%	2.1%	
9:00 PM	5	36	6	40	113	7	32	51	12	5	97	33	437	97.5%	2.5%	

Lake Street & Harlem Avenue 12/06/2022 12:00 AM

		arlem Avenu			Lake Stree			arlem Aven			Lake Street						
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Hourly Total	PC %	Heavy Veh %	Peak Hour Factor	FILTER
12:00 AM	12	121	3	7	5	7	8	184	13	4	4	14	382	98.4%	1.6%		
12:15 AM	6	101	4	7	6	4	10	149	13	1	6	6	313	98.1%	1.9%		
12:30 AM	4	90	4	7	4	4	9	142	10	0	4	6	284	98.2%	1.8%		
12:45 AM	3	88	4	6	5	4	9	126	7	0	5	6	263	98.1%	1.9%		
1:00 AM	5	86	6	4	5	3	8	129	6	4	6	9	271	97.4%	2.6%		
1:15 AM	5	86	4	3	6	3	5	121	3	6	5	7	254	96.9%	3.1%		
1:30 AM	5	98	4	1	6	3	5	104	4	6	5	8	249	95.6%	4.4%		
1:45 AM	6	100	3	3	4	1	3	89	5	7	4	10	235	95.3%	4.7%		
2:00 AM	4	100	2	3	3	2	4	74	9	4	7	6	218	94.0%	6.0%		
2:15 AM	5	99	2	4	1	5	4	64	9	3	6	6	208	93.3%	6.7%		
2:30 AM	6	84	1	6	1	5	3	58	10	3	5	5	187	92.5%	7.5%		
2:45 AM	4	104	2	7	2	5	5	66	10	2	4	2	213	90.1%	9.9%		
3:00 AM	4	116	4	6	4	4	4	77	7	2	0	4	232	91.8%	8.2%		
3:15 AM	5	149	5	5	4	3	6	97	7	4	0	3	288	92.7%	7.3%		
3:30 AM	3	197	7	7	6	4	13	126	7	6	3	2	381	92.7%	7.3%		
3:45 AM	5	234	8	7	7	5	19	162	9	8	4	2	470	93.2%	6.8%		
4:00 AM	5	287	6	10	6	5	27	194	11	10	6	4	571	93.2%	6.8%		
4:15 AM	8	336	9	14	10	3	33	240	17	7	9	10	696	91.7%	8.3%		
4:30 AM	12	407	11	17	11	4	34	280	23	6	11	17	833	92.9%	7.1%		
4:45 AM	13	462	14	24	21	5	39	325	26	10	17	24	980	93.6%	6.4%		
5:00 AM	16	522	18	26	25	7	42	406	35	11	25	29	1162	93.9%	6.1%		
5:15 AM	15	646	22	28	25	8	42	472	34	18	35	27	1372	95.0%	5.0%		
5:30 AM	19	690	32	30	37	9	56	523	32	26	53	34	1541	94.8%	5.2%		
5:45 AM	26	808	40	30	39	11	61	571	36	36	87	67	1812	94.8%	5.2%		
6:00 AM	29	928	49	31	51	13	86	636	31	54	120	93	2121	94.6%	5.4%		
6:15 AM	34	994	54	36	66	17	110	691	42	58	133	133	2368	94.6%	5.4%		
6:30 AM	36	1063	52	41	78	18	120	752	47	71	166	152	2596	95.1%	4.9%		
6:45 AM	37	1091	52	56	98	21	141	834	53	83	183	148	2797	95.2%	4.8%		
7:00 AM	45	1091	69	70	139	25	150	867	60	79	195	156	2946	95.3%	4.7%		
7:15 AM	43	1063	89	75	178	38	172	981	61	85	210	151	3146	95.7%	4.3%		
7:30 AM	46	1094	124	82	192	37	183	1037	68	97	205	142	3307	95.6%	4.4%	0.95	AM Peak
7:45 AM	46	1080	149	77	184	37	181	1054	73	95	191	140	3307	95.5%	4.5%	0.95	AM Peak
8:00 AM	47	1084	148	74	162	37	175	1055	76	111	180	130	3279	95.6%	4.4%		
8:15 AM	50	1013	152	77	139	28	157	952	82	126	178	125	3079	95.2%	4.8%		
8:30 AM	56	967	137	80	131	31	159	928	90	127	162	127	2995	95.0%	5.0%		
8:45 AM	49	916	125	82	133	36	170	890	87	143	158	122	2911	94.9%	5.1%		
9:00 AM	49	857	136	91	132	38	176	874	93	150	156	108	2860	95.0%	5.0%		
9:15 AM	52	869	134	97	138	42	180	834	94	144	159	94	2837	95.0%	5.0%		

9:45 AM 49 797 142 96 147 45 179 767 78 129 1	156 90 2737 95.1% 4.9%
	167 95 2691 95.2% 4.8%
10:00 AM 50 792 134 85 149 45 191 776 72 130 1	160 112 2696 94.9% 5.1%
10:15 AM 48 771 151 91 153 38 192 806 69 144 1	176 123 2762 94.4% 5.6%
10:30 AM 52 777 152 90 169 38 200 844 79 169 1	190 129 2889 94.2% 5.8%
10:45 AM 62 745 161 89 165 37 205 926 92 167 1	192 121 2962 94.3% 5.7%
11:00 AM 60 735 177 93 170 43 196 942 114 169 2	206 120 3025 94.7% 5.3%
11:15 AM 64 739 176 88 185 51 203 946 120 175 2	207 121 3075 95.1% 4.9%
11:30 AM 69 775 186 90 185 56 204 908 130 176 2	211 118 3108 95.3% 4.7%
11:45 AM 67 801 190 96 187 57 209 855 118 197 2	214 127 3118 95.5% 4.5%
12:00 PM 70 836 186 103 181 59 214 848 108 194 2	22 1 117 3137 95.4% 4.6%
12:15 PM 66 851 186 101 166 55 231 845 99 195 2	215 117 3127 95 .6% 4.4%
12:30 PM 67 830 196 99 160 55 234 829 95 184 2	205 117 3071 95.8% 4.2%
12:45 PM 68 849 196 112 148 55 236 802 105 175 1	195 113 3054 95.5% 4.5%
1:00 PM 61 866 209 111 155 54 242 780 100 <mark>182</mark> 1	176 115 3051 96.0% 4.0%
1:15 PM 67 874 197 113 164 58 231 784 98 187 1	182 121 3076 96.2% 3.8%
1:30 PM 59 928 173 123 179 57 230 863 81 191 1	184 126 3194 96.3% 3.7%
1:45 PM 58 989 171 124 206 60 224 902 81 198 1	187 129 3329 96.0% 4.0%
2:00 PM 69 990 142 119 190 53 211 906 73 200 2	206 137 3296 95.9% 4.1%
2:15 PM 64 1041 135 118 192 52 207 935 89 197 2	203 134 3367 95.8% 4.2%
2:30 PM 72 1051 166 101 204 49 205 920 90 197 2	224 134 3413 96.2% 3.8%
2:45 PM 70 1068 181 84 214 43 214 945 80 189 2	226 138 3452 97.0% 3.0%
3:00 PM 60 1092 199 91 237 51 222 1005 82 191 2	226 138 3594 97.1% 2.9%
3:15 PM 66 1082 213 93 237 52 227 1031 67 196 2	234 142 3640 97.4% 2.6% 0.98 PM Peak
3:30 PM 65 1066 189 97 224 61 218 1024 7 2 201 2	232 156 3605 97.6% 2.4%
3:45 PM 60 1019 174 109 213 67 211 1043 73 206 2	246 165 3586 97.6% 2.4%
4:00 PM 64 974 164 110 206 69 209 1051 71 208 2	264 176 3566 98.0% 2.0%
4:15 PM 61 1024 166 107 204 66 201 1039 72 212 2	
4.131 W 01 1024 100 107 204 00 201 1033 72 212 2	266 171 3589 98.2% 1.8%
4:30 PM 58 1027 163 115 201 59 205 1013 68 226 2	266 171 3589 98.2% 1.8%
4:30 PM 58 1027 163 115 201 59 205 1013 68 226 2 4:45 PM 63 1039 162 105 190 51 216 1037 66 239 2 5:00 PM 65 1093 161 104 197 45 216 957 73 252 2	266 171 3589 98.2% 1.8% 276 165 3576 98.1% 1.9%
4:30 PM 58 1027 163 115 201 59 205 1013 68 226 2 4:45 PM 63 1039 162 105 190 51 216 1037 66 239 2 5:00 PM 65 1093 161 104 197 45 216 957 73 252 2 5:15 PM 72 1004 158 106 190 52 217 963 81 247 2	266 171 3589 98.2% 1.8% 276 165 3576 98.1% 1.9% 279 171 3618 98.3% 1.7% 276 179 3618 98.2% 1.8% 272 194 3556 98.1% 1.9%
4:30 PM 58 1027 163 115 201 59 205 1013 68 226 2 4:45 PM 63 1039 162 105 190 51 216 1037 66 239 2 5:00 PM 65 1093 161 104 197 45 216 957 73 252 2 5:15 PM 72 1004 158 106 190 52 217 963 81 247 2 5:30 PM 73 996 163 99 196 55 223 980 75 239 2	266 171 3589 98.2% 1.8% 276 165 3576 98.1% 1.9% 279 171 3618 98.3% 1.7% 276 179 3618 98.2% 1.8% 272 194 3556 98.1% 1.9% 254 208 3561 98.1% 1.9%
4:30 PM 58 1027 163 115 201 59 205 1013 68 226 2 4:45 PM 63 1039 162 105 190 51 216 1037 66 239 2 5:00 PM 65 1093 161 104 197 45 216 957 73 252 2 5:15 PM 72 1004 158 106 190 52 217 963 81 247 2 5:30 PM 73 996 163 99 196 55 223 980 75 239 2 5:45 PM 72 1024 158 93 196 62 212 940 87 217 2	266 171 3589 98.2% 1.8% 276 165 3576 98.1% 1.9% 279 171 3618 98.3% 1.7% 276 179 3618 98.2% 1.8% 272 194 3556 98.1% 1.9%
4:30 PM 58 1027 163 115 201 59 205 1013 68 226 2 4:45 PM 63 1039 162 105 190 51 216 1037 66 239 2 5:00 PM 65 1093 161 104 197 45 216 957 73 252 2 5:15 PM 72 1004 158 106 190 52 217 963 81 247 2 5:30 PM 73 996 163 99 196 55 223 980 75 239 2 5:45 PM 72 1024 158 93 196 62 212 940 87 217 2	266 171 3589 98.2% 1.8% 276 165 3576 98.1% 1.9% 279 171 3618 98.3% 1.7% 276 179 3618 98.2% 1.8% 272 194 3556 98.1% 1.9% 254 208 3561 98.1% 1.9%
4:30 PM 58 1027 163 115 201 59 205 1013 68 226 2 4:45 PM 63 1039 162 105 190 51 216 1037 66 239 2 5:00 PM 65 1093 161 104 197 45 216 957 73 252 2 5:15 PM 72 1004 158 106 190 52 217 963 81 247 2 5:30 PM 73 996 163 99 196 55 223 980 75 239 2 5:45 PM 72 1024 158 93 196 62 212 940 87 217 2 6:00 PM 78 920 155 91 179 63 213 976 86 198 2 6:15 PM 73 909 133 86 171 64 211 962 86 176 2	266 171 3589 98.2% 1.8% 276 165 3576 98.1% 1.9% 279 171 3618 98.3% 1.7% 276 179 3618 98.2% 1.8% 272 194 3556 98.1% 1.9% 254 208 3561 98.1% 1.9% 232 195 3488 98.1% 1.9% 217 183 3359 98.1% 1.9% 204 165 3240 98.3% 1.7%
4:30 PM 58 1027 163 115 201 59 205 1013 68 226 2 4:45 PM 63 1039 162 105 190 51 216 1037 66 239 2 5:00 PM 65 1093 161 104 197 45 216 957 73 252 2 5:15 PM 72 1004 158 106 190 52 217 963 81 247 2 5:30 PM 73 996 163 99 196 55 223 980 75 239 2 5:45 PM 72 1024 158 93 196 62 212 940 87 217 2 6:00 PM 78 920 155 91 179 63 213 976 86 198 2 6:15 PM 73 909 133 86 171 64 211 962 86 176 2 6:30 PM 73 810	266 171 3589 98.2% 1.8% 276 165 3576 98.1% 1.9% 279 171 3618 98.3% 1.7% 276 179 3618 98.2% 1.8% 272 194 3556 98.1% 1.9% 254 208 3561 98.1% 1.9% 232 195 3488 98.1% 1.9% 217 183 3359 98.1% 1.9% 204 165 3240 98.3% 1.7% 184 137 2970 98.2% 1.8%
4:30 PM 58 1027 163 115 201 59 205 1013 68 226 2 4:45 PM 63 1039 162 105 190 51 216 1037 66 239 2 5:00 PM 65 1093 161 104 197 45 216 957 73 252 2 5:15 PM 72 1004 158 106 190 52 217 963 81 247 2 5:30 PM 73 996 163 99 196 55 223 980 75 239 2 5:45 PM 72 1024 158 93 196 62 212 940 87 217 2 6:00 PM 78 920 155 91 179 63 213 976 86 198 2 6:15 PM 73 909 133 86 171 64 211 962 86 176 2 6:30 PM 73 810	266 171 3589 98.2% 1.8% 276 165 3576 98.1% 1.9% 279 171 3618 98.3% 1.7% 276 179 3618 98.2% 1.8% 272 194 3556 98.1% 1.9% 254 208 3561 98.1% 1.9% 232 195 3488 98.1% 1.9% 217 183 3359 98.1% 1.9% 204 165 3240 98.3% 1.7% 184 137 2970 98.2% 1.8% 166 123 2715 98.1% 1.9%
4:30 PM 58 1027 163 115 201 59 205 1013 68 226 2 4:45 PM 63 1039 162 105 190 51 216 1037 66 239 2 5:00 PM 65 1093 161 104 197 45 216 957 73 252 2 5:15 PM 72 1004 158 106 190 52 217 963 81 247 2 5:30 PM 73 996 163 99 196 55 223 980 75 239 2 5:45 PM 72 1024 158 93 196 62 212 940 87 217 2 6:00 PM 78 920 155 91 179 63 213 976 86 198 2 6:15 PM 73 909 133 86 171 64 211 962 86 176 2 6:30 PM 73 810	266 171 3589 98.2% 1.8% 276 165 3576 98.1% 1.9% 279 171 3618 98.3% 1.7% 276 179 3618 98.2% 1.8% 272 194 3556 98.1% 1.9% 254 208 3561 98.1% 1.9% 232 195 3488 98.1% 1.9% 217 183 3359 98.1% 1.9% 204 165 3240 98.3% 1.7% 184 137 2970 98.2% 1.8% 166 123 2715 98.1% 1.9% 142 100 2525 98.2% 1.8%
4:30 PM 58 1027 163 115 201 59 205 1013 68 226 2 4:45 PM 63 1039 162 105 190 51 216 1037 66 239 2 5:00 PM 65 1093 161 104 197 45 216 957 73 252 2 5:15 PM 72 1004 158 106 190 52 217 963 81 247 2 5:30 PM 73 996 163 99 196 55 223 980 75 239 2 5:45 PM 72 1024 158 93 196 62 212 940 87 217 2 6:00 PM 78 920 155 91 179 63 213 976 86 198 2 6:15 PM 73 909 133 86 171 64 211 962 86 176 2 6:30 PM 73 810	266 171 3589 98.2% 1.8% 276 165 3576 98.1% 1.9% 279 171 3618 98.3% 1.7% 276 179 3618 98.2% 1.8% 272 194 3556 98.1% 1.9% 254 208 3561 98.1% 1.9% 232 195 3488 98.1% 1.9% 217 183 3359 98.1% 1.9% 204 165 3240 98.3% 1.7% 184 137 2970 98.2% 1.8% 166 123 2715 98.1% 1.9% 142 100 2525 98.2% 1.8% 119 93 2353 98.3% 1.7%
4:30 PM 58 1027 163 115 201 59 205 1013 68 226 2 4:45 PM 63 1039 162 105 190 51 216 1037 66 239 2 5:00 PM 65 1093 161 104 197 45 216 957 73 252 2 5:15 PM 72 1004 158 106 190 52 217 963 81 247 2 5:30 PM 73 996 163 99 196 55 223 980 75 239 2 5:45 PM 72 1024 158 93 196 62 212 940 87 217 2 6:00 PM 78 920 155 91 179 63 213 976 86 198 2 6:15 PM 73 909 133 86 171 64 211 962 86 176 2 6:30 PM 73 810	266 171 3589 98.2% 1.8% 276 165 3576 98.1% 1.9% 279 171 3618 98.3% 1.7% 276 179 3618 98.2% 1.8% 272 194 3556 98.1% 1.9% 254 208 3561 98.1% 1.9% 232 195 3488 98.1% 1.9% 217 183 3359 98.1% 1.9% 204 165 3240 98.3% 1.7% 184 137 2970 98.2% 1.8% 166 123 2715 98.1% 1.9% 142 100 2525 98.2% 1.8% 119 93 2353 98.3% 1.7% 116 83 2261 98.5% 1.5%
4:30 PM 58 1027 163 115 201 59 205 1013 68 226 2 4:45 PM 63 1039 162 105 190 51 216 1037 66 239 2 5:00 PM 65 1093 161 104 197 45 216 957 73 252 2 5:15 PM 72 1004 158 106 190 52 217 963 81 247 2 5:30 PM 73 996 163 99 196 55 223 980 75 239 2 5:45 PM 72 1024 158 93 196 62 212 940 87 217 2 6:00 PM 78 920 155 91 179 63 213 976 86 198 2 6:15 PM 73 909 133 86 171 64 211 962 86 176 2 6:30 PM 73 810	266 171 3589 98.2% 1.8% 276 165 3576 98.1% 1.9% 279 171 3618 98.3% 1.7% 276 179 3618 98.2% 1.8% 272 194 3556 98.1% 1.9% 254 208 3561 98.1% 1.9% 232 195 3488 98.1% 1.9% 217 183 3359 98.1% 1.9% 204 165 3240 98.3% 1.7% 184 137 2970 98.2% 1.8% 166 123 2715 98.1% 1.9% 142 100 2525 98.2% 1.8% 119 93 2353 98.3% 1.7% 116 83 2261 98.5% 1.5% 101 80 2187 98.7% 1.3%
4:30 PM 58 1027 163 115 201 59 205 1013 68 226 2 4:45 PM 63 1039 162 105 190 51 216 1037 66 239 2 5:00 PM 65 1093 161 104 197 45 216 957 73 252 2 5:15 PM 72 1004 158 106 190 52 217 963 81 247 2 5:30 PM 73 996 163 99 196 55 223 980 75 239 2 5:45 PM 72 1024 158 93 196 62 212 940 87 217 2 6:00 PM 78 920 155 91 179 63 213 976 86 198 2 6:15 PM 73 909 133 86 171 64 211 962 86 176 2 6:30 PM 73 810	266 171 3589 98.2% 1.8% 276 165 3576 98.1% 1.9% 279 171 3618 98.3% 1.7% 276 179 3618 98.2% 1.8% 272 194 3556 98.1% 1.9% 254 208 3561 98.1% 1.9% 232 195 3488 98.1% 1.9% 217 183 3359 98.1% 1.9% 204 165 3240 98.3% 1.7% 184 137 2970 98.2% 1.8% 166 123 2715 98.1% 1.9% 142 100 2525 98.2% 1.8% 119 93 2353 98.3% 1.7% 116 83 2261 98.5% 1.5% 101 80 2187 98.7% 1.3% 89 79 2104 98.4% 1.6%
4:30 PM 58 1027 163 115 201 59 205 1013 68 226 2 4:45 PM 63 1039 162 105 190 51 216 1037 66 239 2 5:00 PM 65 1093 161 104 197 45 216 957 73 252 2 5:15 PM 72 1004 158 106 190 52 217 963 81 247 2 5:30 PM 73 996 163 99 196 55 223 980 75 239 2 5:45 PM 72 1024 158 93 196 62 212 940 87 217 2 6:00 PM 78 920 155 91 179 63 213 976 86 198 2 6:15 PM 73 909 133 86 171 64 211 962 86 176 2 6:30 PM 73 810 116 85 150 66 197 910 91 151 1 6:45 PM 80 691 104 86 128 59 179 872 83 144 1 7:00 PM 72 657 87 88 128 56 167 827 81 120 1 7:15 PM 65 606 85 91 119 51 162 774 74 114 1 7:30 PM 61 599 78 89 116 42 147 753 71 106 1 7:45 PM 51 600 70 109 116 41 145 715 65 94 1 8:00 PM 43 603 76 103 104 36 127 696 58 90 88 15 PM 40 605 75 99 102 33 124 659 47 87 87	266 171 3589 98.2% 1.8% 276 165 3576 98.1% 1.9% 279 171 3618 98.3% 1.7% 276 179 3618 98.2% 1.8% 272 194 3556 98.1% 1.9% 254 208 3561 98.1% 1.9% 232 195 3488 98.1% 1.9% 217 183 3359 98.1% 1.9% 204 165 3240 98.3% 1.7% 184 137 2970 98.2% 1.8% 166 123 2715 98.1% 1.9% 142 100 2525 98.2% 1.8% 119 93 2353 98.3% 1.7% 116 83 2261 98.5% 1.5% 101 80 2187 98.7% 1.3% 89 79 2104 98.4% 1.6% 85 71 2027 98.4% 1.6%
4:30 PM 58 1027 163 115 201 59 205 1013 68 226 2 4:45 PM 63 1039 162 105 190 51 216 1037 66 239 2 5:00 PM 65 1093 161 104 197 45 216 957 73 252 2 5:15 PM 72 1004 158 106 190 52 217 963 81 247 2 5:30 PM 73 996 163 99 196 55 223 980 75 239 2 5:45 PM 72 1024 158 93 196 62 212 940 87 217 2 6:00 PM 78 920 155 91 179 63 213 976 86 198 2 6:15 PM 73 909 133 86 171 64 211 962 86 176 2 6:30 PM 73 810 116 85 150 66 197 910 91 151 1 6:45 PM 80 691 104 86 128 59 179 872 83 144 1 7:00 PM 72 657 87 88 128 56 167 827 81 120 1 7:15 PM 65 606 85 91 119 51 162 774 74 114 1 7:30 PM 61 599 78 89 116 42 147 753 71 106 1 7:45 PM 51 600 70 109 116 41 145 715 65 94 1 8:00 PM 43 603 76 103 104 36 127 696 58 90 88 8:15 PM 40 605 75 99 102 33 124 659 47 87 87 88 8:30 PM 40 605 75 99 102 33 124 659 47 87 87 88 8:30 PM 40 605 75 99 102 33 124 659 47 87 87	266 171 3589 98.2% 1.8% 276 165 3576 98.1% 1.9% 279 171 3618 98.3% 1.7% 276 179 3618 98.2% 1.8% 272 194 3556 98.1% 1.9% 254 208 3561 98.1% 1.9% 232 195 3488 98.1% 1.9% 217 183 3359 98.1% 1.9% 204 165 3240 98.3% 1.7% 184 137 2970 98.2% 1.8% 166 123 2715 98.1% 1.9% 142 100 2525 98.2% 1.8% 119 93 2353 98.3% 1.7% 116 83 2261 98.5% 1.5% 101 80 2187 98.7% 1.3% 89 79 2104 98.4% 1.6%

Heavy Veh %	2.3%	3.8%	2.6%	6.4%	4.1%	2.5%	2.4%	3.8%	3.9%	1.5%	3.9%	2.8%				Heavy Veh %
PC %	97.7%	96.2%	97.4%	93.6%	95.9%	97.5%	97.6%	96.2%	96.1%	98.5%	96.1%	97.2%				PC %
Movement Total	967	15888	2234	1557	2543	773	3061	15638	1367	2473	3024	2115				Movement Total
11:45 PM	1	39	0	2	4	0	4	70	5	2	3	4				
11:30 PM	2	90	1	8	5	4	6	150	8	5	11	9				
11:15 PM	4	153	3	12	8	5	12	246	12	10	19	12				
11:00 PM	12	212	5	18	13	8	20	344	18	15	29	18	712	97.2%	2.8%	
10:45 PM	18	247	10	20	12	12	25	364	24	18	31	21	802	97.6%	2.4%	
10:30 PM	19	277	13	24	16	11	39	391	27	22	31	28	898	97.8%	2.2%	
10:15 PM	22	345	17	29	19	16	44	435	29	29	36	34	1055	98.1%	1.9%	
10:00 PM	21	408	25	37	35	17	44	469	36	36	41	41	1210	98.0%	2.0%	
9:45 PM	21	448	31	50	42	17	54	504	39	43	54	45	1348	98.0%	2.0%	
9:30 PM	23	488	46	64	49	21	60	537	48	47	62	47	1492	98.1%	1.9%	
9:15 PM	26	490	63	76	60	26	78	548	59	49	65	44	1584	98.0%	2.0%	
9:00 PM	26	518	73	82	67	33	109	565	54	59	72	47	1705	98.4%	1.6%	

Chicago Avenue & Thatcher Avenue 12/08/2022 12:00 AM

		atcher Aver			nicago Aver Westbound		Th	natcher Aver Northbound		С	hicago Aver Eastbound						
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Hourly Total	PC %	Heavy Veh %	Peak Hour Factor	FILTER
12:00 AM	3	9	8	0	10	2	1	12	1	1	11	3	61	96.7%	3.3%		
12:15 AM	2	8	7	0	14	2	1	7	1	2	6	3	53	96.2%	3.8%		
12:30 AM	1	8	3	0	11	2	1	6	1	1	7	3	44	97.7%	2.3%		
12:45 AM	2	7	3	0	10	0	1	9	0	1	4	3	40	97.5%	2.5%		
1:00 AM	1	7	3	0	10	0	1	8	0	2	4	1	37	100.0%	0.0%		
1:15 AM	3	5	3	0	5	0	1	8	0	1	5	0	31	100.0%	0.0%		
1:30 AM	3	4	3	0	3	1	1	7	0	1	5	0	28	96.4%	3.6%		
1:45 AM	2	5	4	0	2	1	1	4	0	3	3	0	25	96.0%	4.0%		
2:00 AM	2	5	4	0	1	1	0	4	0	2	5	0	24	95.8%	4.2%		
2:15 AM	1	6	5	0	1	2	0	3	0	2	4	0	24	95.8%	4.2%		
2:30 AM	1	6	5	0	1	1	0	3	0	2	4	0	23	100.0%	0.0%		
2:45 AM	2	6	3	1	4	1	0	2	0	0	6	0	25	100.0%	0.0%		
3:00 AM	2	7	2	1	7	1	0	2	0	0	5	0	27	100.0%	0.0%		
3:15 AM	1	9	1	1	9	0	0	1	1	0	5	0	28	100.0%	0.0%		
3:30 AM	1	13	1	1	11	0	0	4	1	0	8	0	40	100.0%	0.0%		
3:45 AM	1	15	3	0	11	2	0	4	1	0	10	0	47	100.0%	0.0%		
4:00 AM	1	15	5	0	15	2	0	6	1	0	10	0	55	100.0%	0.0%		
4:15 AM	1	18	5	0	22	3	0	9	0	1	14	0	73	98.6%	1.4%		
4:30 AM	5	21	8	0	27	4	1	9	1	2	12	4	94	98.9%	1.1%		
4:45 AM	5	31	10	0	36	3	2	19	1	5	17	5	134	99.3%	0.7%		
5:00 AM	7	39	9	2	35	4	3	24	1	7	26	7	164	98.2%	1.8%		
5:15 AM	8	47	10	3	36	5	3	32	2	10	31	14	201	98.0%	2.0%		
5:30 AM	7	67	14	8	48	7	3	43	4	12	47	10	270	97.8%	2.2%		
5:45 AM	9	78	15	9	59	10	2	49	6	19	74	15	345	96.8%	3.2%		
6:00 AM	28	122	23	9	76	12	3	74	10	24	116	19	516	97.7%	2.3%		
6:15 AM	38	154	33	9	97	17	10	96	15	42	163	25	699	97.7%	2.3%		
6:30 AM	54	190	37	7	114	22	13	128	19	59	213	36	892	98.1%	1.9%		
6:45 AM	69	228	54	14	148	28	26	168	29	78	256	48	1146	98.3%	1.7%		
7:00 AM	73	273	70	19	184	34	30	206	35	112	274	55	1365	98.5%	1.5%		
7:15 AM	80	294	80	24	232	32	44	241	38	113	293	54	1525	98.7%	1.3%		
7:30 AM	76	311	88	34	250	29	54	243	44	115	280	52	1576	98.7%	1.3%	0.91	AM Peak
7:45 AM	72	311	80	36	247	25	53	235	42	108	245	45	1499	98.6%	1.4%		
8:00 AM	60	266	67	33	234	22	51	208	40	77	216	39	1313	98.2%	1.8%		
8:15 AM	52	229	57	28	193	23	35	169	34	76	178	34	1108	97.7%	2.3%		
8:30 AM	42	183	41	20	170	26	26	154	26	61	160	32	941	97.1%	2.9%		
8:45 AM	46	168	42	12	151	25	18	146	18	53	159	26	864	96.2%	3.8%		
9:00 AM	43	146	39	12	134	24	32	133	14	58	157	32	824	96.4%	3.6%		
9:15 AM	43	148	40	15	133	25	39	126	14	48	144	34	809	97.2%	2.8%		

9:30 AM	51	161	44	15	136	28	38	122	10	47	136	37	825	97.3%	2.7%		
9:45 AM	40	147	34	19	137	34	38	104	9	40	118	38	758	98.8%	1.2%		<u> </u>
10:00 AM	40	150	36	17	145	36	25	100	8	31	123	31	742	98.2%	1.8%		
10:15 AM	40	142	32	15	139	40	19	104	7	30	135	29	732	97.8%	2.2%		
10:30 AM	35	132	47	15	154	31	23	110	10	37	132	30	756	97.4%	2.6%		
10:45 AM	41	140	50	13	162	26	28	119	12	38	136	30	795	97.0%	3.0%		
11:00 AM	41	134	53	14	169	27	28	129	17	42	129	31	814	97.3%	2.7%		
11:15 AM	45	156	56	16	172	24	30	137	19	39	120	42	856	97.8%	2.2%		
11:30 AM	51	153	48	14	157	30	28	129	16	31	128	44	829	98.2%	1.8%		
11:45 AM	49	148	53	13	153	30	31	147	21	29	146	51	871	97.8%	2.2%		
12:00 PM	54	173	54	17	148	25	35	147	16	32	143	55	899	98.0%	2.0%		
12:15 PM	60	163	53	15	149	22	36	136	15	37	155	41	882	97.7%	2.3%		
12:30 PM	54	180	51	14	165	17	40	138	17	40	161	43	920	98.0%	2.0%		
12:45 PM	67	201	56	18	173	20	36	110	15	49	167	49	961	98.5%	1.5%		
1:00 PM	63	194	58	13	180	35	50	106	19	47	179	50	994	98.7%	1.3%		
1:15 PM	61	202	63	18	198	38	49	114	20	46	191	55	1055	98.6%	1.4%		
1:30 PM	77	215	70	25	194	41	43	124	23	58	206	47	1123	98.2%	1.8%		
1:45 PM	80	225	66	27	196	38	45	160	25	60	209	40	1171	98.5%	1.5%		
2:00 PM	96	259	74	31	205	24	30	176	22	76	221	42	1256	98.3%	1.7%		
2:15 PM	115	295	75	31	218	20	31	206	25	85	237	50	1388	98.6%	1.4%		
2:30 PM	125	320	89	40	230	23	39	223	24	78	246	60	1497	98.6%	1.4%		
2:45 PM	123	328	103	49	257	27	43	238	24	80	244	61	1577	98.1%	1.9%		
3:00 PM	125	337	105	57	275	31	51	262	26	74	278	60	1681	98.0%	2.0%		
3:15 PM	117	355	111	58	278	46	52	275	26	70	300	57	1745	97.9%	2.1%		
3:30 PM	115	365	103	49	293	43	48	289	25	99	309	61	1799	97.7%	2.3%		
3:45 PM	122	380	103	45	286	44	44	268	25	111	342	55	1825	98.0%	2.0%	0.98	PM Peak
																	· III · Ouii
4:00 PM	125				281	39		267				55	1783	98.5%	1.5%		
4:00 PM 4:15 PM	125 127	368	96	37	281 293	39 26	37	267 261	33	118	327	55 51	1783 1783	98.5% 98.7%	1.5% 1.3%		
4:15 PM	127	368 343	96 100	37 35	293	26	37 39	261	33 36	118 127	327 345	51	1783	98.7%	1.3%		
4:15 PM 4:30 PM	127 127	368 343 324	96 100 91	37 35 32	293 292	26 38	37 39 36	261 264	33 36 40	118 127 116	327 345 347	51 45	1783 1752	98.7% 99.2%	1.3% 0.8%		
4:15 PM 4:30 PM 4:45 PM	127 127 134	368 343 324 304	96 100 91 76	37 35 32 24	293 292 308	26 38 48	37 39 36 38	261 264 270	33 36 40 42	118 127 116 108	327 345 347 324	51 45 52	1783 1752 1728	98.7% 99.2% 99.2%	1.3% 0.8% 0.8%		
4:15 PM 4:30 PM 4:45 PM 5:00 PM	127 127 134 140	368 343 324 304 293	96 100 91 76 68	37 35 32 24 28	293 292 308 291	26 38 48 55	37 39 36 38 33	261 264 270 269	33 36 40 42 35	118 127 116 108 114	327 345 347 324 347	51 45 52 55	1783 1752 1728 1728	98.7% 99.2% 99.2% 99.1%	1.3% 0.8% 0.8% 0.9%		
4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	127 127 134 140 146	368 343 324 304 293 295	96 100 91 76 68 52	37 35 32 24 28 30	293 292 308 291 259	26 38 48 55 54	37 39 36 38 33 30	261 264 270 269 256	33 36 40 42 35 30	118 127 116 108 114 109	327 345 347 324 347 328	51 45 52 55 58	1783 1752 1728 1728 1647	98.7% 99.2% 99.2% 99.1% 99.0%	1.3% 0.8% 0.8% 0.9% 1.0%		
4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM	127 127 134 140 146 135	368 343 324 304 293 295 265	96 100 91 76 68 52 52	37 35 32 24 28 30 34	293 292 308 291 259 231	26 38 48 55 54 45	37 39 36 38 33 30 27	261 264 270 269 256 240	33 36 40 42 35 30 27	118 127 116 108 114 109 97	327 345 347 324 347 328 334	51 45 52 55 58 52	1783 1752 1728 1728 1647 1539	98.7% 99.2% 99.2% 99.1% 99.0% 99.2%	1.3% 0.8% 0.8% 0.9% 1.0% 0.8%		
4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM	127 127 134 140 146 135 120	368 343 324 304 293 295 265 248	96 100 91 76 68 52 52 48	37 35 32 24 28 30 34 32	293 292 308 291 259 231	26 38 48 55 54 45 30	37 39 36 38 33 30 27 20	261 264 270 269 256 240 218	33 36 40 42 35 30 27 29	118 127 116 108 114 109 97 91	327 345 347 324 347 328 334 347	51 45 52 55 58 52 50	1783 1752 1728 1728 1728 1647 1539 1417	98.7% 99.2% 99.2% 99.1% 99.0% 99.2% 99.4%	1.3% 0.8% 0.8% 0.9% 1.0% 0.8% 0.6%		
4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM 6:00 PM	127 127 134 140 146 135 120	368 343 324 304 293 295 265 248 214	96 100 91 76 68 52 52 48	37 35 32 24 28 30 34 32 28	293 292 308 291 259 231 184 172	26 38 48 55 54 45 30 26	37 39 36 38 33 30 27 20 22	261 264 270 269 256 240 218 182	33 36 40 42 35 30 27 29 26	118 127 116 108 114 109 97 91	327 345 347 324 347 328 334 347 304	51 45 52 55 58 52 50 42	1783 1752 1728 1728 1647 1539 1417 1239	98.7% 99.2% 99.2% 99.1% 99.0% 99.2% 99.4%	1.3% 0.8% 0.8% 0.9% 1.0% 0.8% 0.6%		
4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM 6:00 PM 6:15 PM	127 127 134 140 146 135 120 96 65	368 343 324 304 293 295 265 248 214	96 100 91 76 68 52 52 48 51	37 35 32 24 28 30 34 32 28 20	293 292 308 291 259 231 184 172 159	26 38 48 55 54 45 30 26 25	37 39 36 38 33 30 27 20 22	261 264 270 269 256 240 218 182 167	33 36 40 42 35 30 27 29 26 24	118 127 116 108 114 109 97 91 76	327 345 347 324 347 328 334 347 304 264	51 45 52 55 58 52 50 42	1783 1752 1728 1728 1647 1539 1417 1239 1058	98.7% 99.2% 99.2% 99.1% 99.0% 99.2% 99.4% 99.4% 99.7%	1.3% 0.8% 0.8% 0.9% 1.0% 0.8% 0.6% 0.6%		
4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM 6:00 PM 6:15 PM 6:30 PM	127 127 134 140 146 135 120 96 65 53	368 343 324 304 293 295 265 248 214 161 145	96 100 91 76 68 52 52 48 51 50	37 35 32 24 28 30 34 32 28 20	293 292 308 291 259 231 184 172 159 140	26 38 48 55 54 45 30 26 25	37 39 36 38 33 30 27 20 22 15	261 264 270 269 256 240 218 182 167 128	33 36 40 42 35 30 27 29 26 24 20	118 127 116 108 114 109 97 91 76 75	327 345 347 324 347 328 334 347 304 264 220	51 45 52 55 58 52 50 42 33 31	1783 1752 1728 1728 1647 1539 1417 1239 1058 902	98.7% 99.2% 99.2% 99.1% 99.0% 99.2% 99.4% 99.4% 99.4%	1.3% 0.8% 0.8% 0.9% 1.0% 0.8% 0.6% 0.6%		
4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM 6:00 PM 6:15 PM 6:30 PM	127 127 134 140 146 135 120 96 65 53	368 343 324 304 293 295 265 248 214 161 145	96 100 91 76 68 52 52 48 51 50 47	37 35 32 24 28 30 34 32 28 20 13	293 292 308 291 259 231 184 172 159 140	26 38 48 55 54 45 30 26 25 18	37 39 36 38 33 30 27 20 22 15 17	261 264 270 269 256 240 218 182 167 128	33 36 40 42 35 30 27 29 26 24 20	118 127 116 108 114 109 97 91 76 75 70	327 345 347 324 347 328 334 347 304 264 220	51 45 52 55 58 52 50 42 33 31	1783 1752 1728 1728 1647 1539 1417 1239 1058 902	98.7% 99.2% 99.2% 99.1% 99.0% 99.2% 99.4% 99.4% 99.7% 99.4%	1.3% 0.8% 0.8% 0.9% 1.0% 0.8% 0.6% 0.6% 0.3% 0.6%		
4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM 6:00 PM 6:15 PM 6:30 PM 7:00 PM	127 127 134 140 146 135 120 96 65 53 41	368 343 324 304 293 295 265 248 214 161 145	96 100 91 76 68 52 52 48 51 50 47	37 35 32 24 28 30 34 32 28 20 13	293 292 308 291 259 231 184 172 159 140	26 38 48 55 54 45 30 26 25 18	37 39 36 38 33 30 27 20 22 15 17	261 264 270 269 256 240 218 182 167 128	33 36 40 42 35 30 27 29 26 24 20	118 127 116 108 114 109 97 91 76 75 70 63 53	327 345 347 324 347 328 334 347 304 264 220	51 45 52 55 58 52 50 42 33 31 23	1783 1752 1728 1728 1647 1539 1417 1239 1058 902 773 672	98.7% 99.2% 99.2% 99.1% 99.0% 99.2% 99.4% 99.4% 99.7% 99.5%	1.3% 0.8% 0.8% 0.9% 1.0% 0.8% 0.6% 0.6% 0.3% 0.6%		
4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 6:00 PM 6:15 PM 6:30 PM 6:45 PM 7:00 PM 7:15 PM	127 127 134 140 146 135 120 96 65 53 41 39	368 343 324 304 293 295 265 248 214 161 145 112 112	96 100 91 76 68 52 52 48 51 50 47 58 52 56	37 35 32 24 28 30 34 32 28 20 13 14 11	293 292 308 291 259 231 184 172 159 140 137 121	26 38 48 55 54 45 30 26 25 18 14 16	37 39 36 38 33 30 27 20 22 15 17	261 264 270 269 256 240 218 182 167 128 106 85 61	33 36 40 42 35 30 27 29 26 24 20 13 10	118 127 116 108 114 109 97 91 76 75 70 63 53	327 345 347 324 347 328 334 347 304 264 220 175 140	51 45 52 55 58 52 50 42 33 31 23 18	1783 1752 1728 1728 1647 1539 1417 1239 1058 902 773 672 611	98.7% 99.2% 99.2% 99.1% 99.0% 99.2% 99.4% 99.4% 99.7% 99.5% 99.7%	1.3% 0.8% 0.8% 0.9% 1.0% 0.8% 0.6% 0.6% 0.3% 0.6% 0.3% 0.3%		
4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 6:00 PM 6:15 PM 6:30 PM 7:00 PM 7:15 PM 7:30 PM	127 127 134 140 146 135 120 96 65 53 41 39 47	368 343 324 304 293 295 265 248 214 161 145 112 112 122 109	96 100 91 76 68 52 52 48 51 50 47 58 52 56 48	37 35 32 24 28 30 34 32 28 20 13 14 11 12 9	293 292 308 291 259 231 184 172 159 140 137 121 107 103	26 38 48 55 54 45 30 26 25 18 14 16 15	37 39 36 38 33 30 27 20 22 15 17 17 15 13	261 264 270 269 256 240 218 182 167 128 106 85 61 62	33 36 40 42 35 30 27 29 26 24 20 13 10 10	118 127 116 108 114 109 97 91 76 75 70 63 53 37	327 345 347 324 347 328 334 347 304 264 220 175 140 113	51 45 52 55 58 52 50 42 33 31 23 18 18	1783 1752 1728 1728 1647 1539 1417 1239 1058 902 773 672 611 558	98.7% 99.2% 99.2% 99.1% 99.0% 99.2% 99.4% 99.4% 99.7% 99.5% 99.7% 99.7%	1.3% 0.8% 0.8% 0.9% 1.0% 0.8% 0.6% 0.6% 0.3% 0.6% 0.3% 0.0%		
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4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 6:00 PM 6:15 PM 6:30 PM 7:00 PM 7:15 PM 7:30 PM 7:30 PM 7:45 PM 8:00 PM 8:15 PM	127 127 134 140 146 135 120 96 65 53 41 39 47 49 39 28 22	368 343 324 304 293 295 265 248 214 161 145 112 112 122 109 107 86 71	96 100 91 76 68 52 52 48 51 50 47 58 52 56 48 37 40 36	37 35 32 24 28 30 34 32 28 20 13 14 11 12 9 4	293 292 308 291 259 231 184 172 159 140 137 121 107 103 88 78 74	26 38 48 55 54 45 30 26 25 18 14 16 15 15 14 8 7	37 39 36 38 33 30 27 20 22 15 17 17 15 13 10 5	261 264 270 269 256 240 218 182 167 128 106 85 61 62 57 57 62	33 36 40 42 35 30 27 29 26 24 20 13 10 10 7 9 8	118 127 116 108 114 109 97 91 76 75 70 63 53 37 32 29 24 24	327 345 347 324 347 328 334 347 304 264 220 175 140 113 95 72 83 82	51 45 52 55 58 52 50 42 33 31 23 18 18 16 16 16 20	1783 1752 1728 1728 1647 1539 1417 1239 1058 902 773 672 611 558 475 432 416	98.7% 99.2% 99.2% 99.1% 99.0% 99.2% 99.4% 99.4% 99.7% 99.7% 99.7% 100.0% 100.0% 100.0% 99.8%	1.3% 0.8% 0.8% 0.9% 1.0% 0.8% 0.6% 0.6% 0.3% 0.6% 0.3% 0.0% 0.0% 0.0% 0.0%		
4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 6:00 PM 6:15 PM 6:30 PM 7:00 PM 7:15 PM 7:30 PM 7:30 PM 7:45 PM	127 127 134 140 146 135 120 96 65 53 41 39 47 49 39 28	368 343 324 304 293 295 265 248 214 161 145 112 112 122 109 107 86	96 100 91 76 68 52 52 48 51 50 47 58 52 56 48 37	37 35 32 24 28 30 34 32 28 20 13 14 11 12 9 4	293 292 308 291 259 231 184 172 159 140 137 121 107 103 88 78	26 38 48 55 54 45 30 26 25 18 14 16 15 15 14 8	37 39 36 38 33 30 27 20 22 15 17 17 15 13 10 5	261 264 270 269 256 240 218 182 167 128 106 85 61 62 57	33 36 40 42 35 30 27 29 26 24 20 13 10 10 7	118 127 116 108 114 109 97 91 76 75 70 63 53 37 32 29 24	327 345 347 324 347 328 334 347 304 264 220 175 140 113 95 72 83	51 45 52 55 58 52 50 42 33 31 23 18 18 16 16	1783 1752 1728 1728 1647 1539 1417 1239 1058 902 773 672 611 558 475	98.7% 99.2% 99.2% 99.1% 99.0% 99.2% 99.4% 99.4% 99.7% 99.7% 99.7% 100.0% 100.0%	1.3% 0.8% 0.8% 0.9% 1.0% 0.8% 0.6% 0.6% 0.3% 0.6% 0.3% 0.0% 0.0%		

Heavy Veh %	1.4%	1.4%	1.5%	6.1%	1.7%	2.5%	0.2%	1.3%	4.5%	1.3%	1.5%	0.3%				Heavy Veh %
PC %	98.6%	98.6%	98.5%	93.9%	98.3%	97.5%	99.8%	98.7%	95.5%	98.7%	98.5%	99.7%		_		PC %
Movement Total	1105	3354	951	343	2877	437	463	2565	332	1003	3222	640				Movement Total
11:45 PM	3	4	1	0	8	0	0	5	0	1	6	2				
11:30 PM	4	10	2	0	13	1	0	9	0	2	9	4				
11:15 PM	5	13	4	0	16	2	1	14	0	3	14	4				
11:00 PM	5	22	5	1	21	2	1	25	0	6	18	4	110	98.2%	1.8%	
10:45 PM	3	31	8	1	19	2	2	23	2	6	18	5	120	99.2%	0.8%	
10:30 PM	5	34	10	1	19	1	5	27	3	8	23	5	141	99.3%	0.7%	
10:15 PM	7	48	9	2	21	2	4	32	4	12	33	7	181	99.4%	0.6%	
10:00 PM	8	52	10	3	24	6	4	33	4	12	41	7	204	99.5%	0.5%	
9:45 PM	12	51	9	6	30	6	3	35	3	14	47	4	220	99.5%	0.5%	
9:30 PM	13	60	7	7	44	7	4	37	2	13	52	7	253	99.6%	0.4%	
9:15 PM	18	66	11	7	51	7	5	41	3	14	56	10	289	99.3%	0.7%	
9:00 PM	25	71	19	9	61	5	9	50	5	15	65	18	352	99.4%	0.6%	

Chicago Avenue & Lathrop Avenue 12/08/2022 12:00 AM

		throp Aven			nicago Aver Westbound		La	athrop Aven Northbound		C	hicago Aver Eastbound						
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Hourly Total	PC %	Heavy Veh %	Peak Hour Factor	FILTER
12:00 AM	0	2	0	2	14	0	0	6	0	1	15	0	40	95.0%	5.0%		
12:15 AM	0	2	0	0	16	0	0	3	0	1	10	0	32	93.8%	6.3%		
12:30 AM	0	3	1	0	13	0	0	3	0	1	10	0	31	93.5%	6.5%		
12:45 AM	0	2	1	0	13	0	0	3	0	1	6	0	26	96.2%	3.8%		
1:00 AM	0	1	1	0	9	0	0	3	0	0	4	0	18	100.0%	0.0%		
1:15 AM	0	2	1	0	6	0	0	2	0	0	4	0	15	100.0%	0.0%		
1:30 AM	0	1	0	0	5	1	1	1	0	0	5	0	14	100.0%	0.0%		
1:45 AM	0	1	0	0	1	1	1	1	0	0	3	0	8	100.0%	0.0%		
2:00 AM	0	1	0	0	1	1	1	1	0	0	4	1	10	100.0%	0.0%		
2:15 AM	0	0	0	0	1	1	1	1	0	0	4	1	9	100.0%	0.0%		
2:30 AM	0	0	0	0	1	0	0	2	0	1	3	1	8	100.0%	0.0%		
2:45 AM	0	0	0	0	6	0	0	1	0	2	4	1	14	100.0%	0.0%		
3:00 AM	0	0	0	0	8	0	0	3	0	2	5	0	18	100.0%	0.0%		
3:15 AM	0	1	0	0	10	0	0	4	0	2	7	0	24	100.0%	0.0%		
3:30 AM	0	3	0	0	11	0	0	4	0	1	9	0	28	100.0%	0.0%		
3:45 AM	0	3	0	0	10	0	0	5	0	0	15	0	33	100.0%	0.0%		
4:00 AM	0	5	0	0	18	0	0	4	0	0	15	0	42	100.0%	0.0%		
4:15 AM	0	5	1	0	23	0	0	4	0	0	17	0	50	98.0%	2.0%		
4:30 AM	0	8	1	1	31	0	0	5	0	0	23	2	71	97.2%	2.8%		
4:45 AM	0	10	2	2	39	0	0	8	2	0	27	2	92	97.8%	2.2%		
5:00 AM	1	13	2	2	37	0	0	13	3	2	35	2	110	97.3%	2.7%		
5:15 AM	2	22	1	3	42	0	0	15	3	3	40	3	134	97.0%	3.0%		
5:30 AM	4	29	3	7	55	1	1	20	4	4	53	1	182	97.3%	2.7%		
5:45 AM	7	44	2	8	71	1	3	23	3	4	88	6	260	96.2%	3.8%		
6:00 AM	8	53	4	11	94	1	5	42	5	3	138	11	375	97.1%	2.9%		
6:15 AM	10	76	6	13	115	3	6	56	11	6	193	17	512	97.7%	2.3%		
6:30 AM	15	101	8	12	137	3	10	85	16	12	238	26	663	98.3%	1.7%		
6:45 AM	24	131	9	17	185	10	14	133	24	14	325	31	917	98.7%	1.3%		
7:00 AM	26	186	11	21	228	13	24	171	31	22	336	34	1103	98.5%	1.5%		
7:15 AM	33	203	12	26	276	15	33	189	41	31	380	44	1283	98.2%	1.8%		
7:30 AM	39	222	15	37	300	17	45	223	57	33	402	48	1438	98.1%	1.9%	0.94	AM Peak
7:45 AM	32	220	16	34	272	13	49	202	53	34	344	43	1312	98.1%	1.9%		
8:00 AM	31	187	16	32	243	13	42	185	49	30	332	38	1198	97.8%	2.2%		
8:15 AM	22	170	13	33	215	13	33	180	41	21	267	26	1034	97.9%	2.1%		
8:30 AM	11	146	8	26	189	12	22	146	26	15	220	17	838	97.6%	2.4%		
8:45 AM	10	130	9	29	178	10	17	145	31	13	209	13	794	96.6%	3.4%		
9:00 AM	9	117	8	31	170	13	18	128	34	13	197	13	751	97.1%	2.9%		
9:15 AM	11	118	11	30	158	10	22	125	30	11	198	13	737	97.4%	2.6%		

9:30 AM	16	106	11	31	150	10	20	115	31	9	194	15	708	97.5%	2.5%	
9:45 AM	16	111	10	35	161	15	22	108	29	10	163	18	698	98.9%	1.1%	
10:00 AM	20	111	9	32	171	9	18	119	29	10	170	20	718	97.9%	2.1%	
10:15 AM	19	111	7	33	175	13	22	130	32	8	183	18	751	98.0%	2.0%	
10:30 AM	14	119	8	33	183	14	27	152	37	7	192	14	800	97.4%	2.6%	
10:45 AM	16	113	11	28	188	13	26	166	40	12	209	18	840	97.1%	2.9%	
11:00 AM	15	128	12	37	186	18	31	176	36	8	199	21	867	98.0%	2.0%	
11:15 AM	23	135	17	33	187	15	28	179	36	9	185	25	872	98.3%	1.7%	
11:30 AM	22	139	15	29	185	14	23	159	33	11	183	28	841	98.8%	1.2%	
11:45 AM	19	145	15	32	174	15	24	152	33	5	182	28	824	98.7%	1.3%	
12:00 PM	18	149	13	27	174	14	23	143	34	7	191	26	819	98.3%	1.7%	
12:15 PM	12	163	7	30	175	13	20	151	42	10	193	32	848	98.0%	2.0%	
12:30 PM	17	161	9	33	191	12	18	168	39	10	194	34	886	98.1%	1.9%	
12:45 PM	17	165	6	30	205	12	15	176	39	11	200	_ 38	914	98.6%	1.4%	
1:00 PM	20	161	8	28	213	11	14	176	43	20	221	38	953	99.0%	1.0%	
1:15 PM	16	150	12	26	224	18	15	171	34	19	239	31	955	98.7%	1.3%	
1:30 PM	13	163	13	27	233	22	14	158	39	22	259	34	997	98.6%	1.4%	
1:45 PM	15	169	13	32	235	20	15	161	33	22	291	32	1038	98.3%	1.7%	
2:00 PM	11	172	17	36	239	20	11	162	35	12	306	44	1065	97.9%	2.1%	
2:15 PM	22	168	18	40	259	15	11	164	38	14	342	48	1139	98.4%	1.6%	
2:30 PM	25	197	19	42	271	19	25	201	48	15	376	50	1288	98.7%	1.3%	
2:45 PM	24	206	20	40	309	24	28	205	53	15	388	46	1358	98.4%	1.6%	
3:00 PM	29	234	18	49	341	31	35	230	51	20	407	42	1487	98.5%	1.5%	
0 45 DM		0.10									400	40	4==0	00.40/	4.007	0.04
3:15 PM	22	248	17	51	342	31	42	264	54	17	422	42	1552	98.1%	1.9%	0.94 PM Peak
3:15 PM 3:30 PM	19	248	17	51 46	342 342	31 26	42 36	264	54	20	422	46	1552 1516	98.1%	1.9% 2.0%	0.94 PM Peak
																0.94 PM Peak
3:30 PM	19	225	16	46	342	26	36	260	51	20	429	46	1516	98.0%	2.0%	0.94 PM Peak
3:30 PM 3:45 PM	19 19	225 220	16 14	46 47	342 321	26 20	36 40	260 270	51 52	20 24	429 449	46 46	1516 1522	98.0% 98.4%	2.0% 1.6%	U.94 PM Peak
3:30 PM 3:45 PM 4:00 PM	19 19 16	225 220 197	16 14 12	46 47 45	342 321 296	26 20 18	36 40 42	260 270 270	51 52 57	20 24 29	429 449 448	46 46 48	1516 1522 1478	98.0% 98.4% 98.4%	2.0% 1.6% 1.6%	U.94 PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM	19 19 16 22	225 220 197 196	16 14 12 11	46 47 45 43	342 321 296 306	26 20 18 20	36 40 42 36	260 270 270 246	51 52 57 61	20 24 29 32	429 449 448 456	46 46 48 46	1516 1522 1478 1475	98.0% 98.4% 98.4% 98.8%	2.0% 1.6% 1.6% 1.2%	U.94 PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM	19 19 16 22 23	225 220 197 196 210	16 14 12 11	46 47 45 43 47	342 321 296 306 329	26 20 18 20 27	36 40 42 36 41	260 270 270 246 249	51 52 57 61 56	20 24 29 32 30	429 449 448 456 459	46 46 48 46 43	1516 1522 1478 1475 1525	98.0% 98.4% 98.4% 98.8% 99.1%	2.0% 1.6% 1.6% 1.2% 0.9%	U.94 PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM	19 19 16 22 23 21	225 220 197 196 210 217	16 14 12 11 11	46 47 45 43 47	342 321 296 306 329 354	26 20 18 20 27 27	36 40 42 36 41 35	260 270 270 246 249 249	51 52 57 61 56 54	20 24 29 32 30 26	429 449 448 456 459 447	46 46 48 46 43 44	1516 1522 1478 1475 1525 1534	98.0% 98.4% 98.4% 98.8% 99.1%	2.0% 1.6% 1.6% 1.2% 0.9%	U.94 PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM	19 19 16 22 23 21 21	225 220 197 196 210 217 216	16 14 12 11 11 13	46 47 45 43 47 47	342 321 296 306 329 354 362	26 20 18 20 27 27 27	36 40 42 36 41 35 30	260 270 270 246 249 249 244	51 52 57 61 56 54 51	20 24 29 32 30 26 20	429 449 448 456 459 447	46 46 48 46 43 44	1516 1522 1478 1475 1525 1534 1528	98.0% 98.4% 98.4% 98.8% 99.1% 99.1% 99.3%	2.0% 1.6% 1.6% 1.2% 0.9% 0.9%	U.94 PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	19 19 16 22 23 21 21	225 220 197 196 210 217 216 226	16 14 12 11 11 13 13	46 47 45 43 47 47 39 35	342 321 296 306 329 354 362 327	26 20 18 20 27 27 27 22 21	36 40 42 36 41 35 30 33	260 270 270 246 249 249 244 259	51 52 57 61 56 54 51 42	20 24 29 32 30 26 20	429 449 448 456 459 447 472 491	46 46 48 46 43 44 38 43	1516 1522 1478 1475 1525 1534 1528	98.0% 98.4% 98.4% 98.8% 99.1% 99.1% 99.3% 99.4%	2.0% 1.6% 1.6% 1.2% 0.9% 0.9% 0.7% 0.6%	U.94 PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM	19 19 16 22 23 21 21 11	225 220 197 196 210 217 216 226 202	16 14 12 11 11 13 13 15	46 47 45 43 47 47 39 35 33	342 321 296 306 329 354 362 327 288	26 20 18 20 27 27 27 22 21 15	36 40 42 36 41 35 30 33 32	260 270 270 246 249 249 244 259 257	51 52 57 61 56 54 51 42 36	20 24 29 32 30 26 20 19	429 449 448 456 459 447 472 491 481	46 46 48 46 43 44 38 43 53	1516 1522 1478 1475 1525 1534 1528 1522 1435	98.0% 98.4% 98.4% 98.8% 99.1% 99.1% 99.3% 99.4% 99.6%	2.0% 1.6% 1.6% 1.2% 0.9% 0.9% 0.7% 0.6% 0.4%	U.94 PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM	19 19 16 22 23 21 21 11 8	225 220 197 196 210 217 216 226 202 184	16 14 12 11 11 13 13 15 13	46 47 45 43 47 47 39 35 33	342 321 296 306 329 354 362 327 288 233	26 20 18 20 27 27 22 21 15	36 40 42 36 41 35 30 33 32 30	260 270 270 246 249 249 244 259 257 254	51 52 57 61 56 54 51 42 36 41	20 24 29 32 30 26 20 19 17 20	429 449 448 456 459 447 472 491 481 478	46 48 46 43 44 38 43 53	1516 1522 1478 1475 1525 1534 1528 1522 1435	98.0% 98.4% 98.4% 98.8% 99.1% 99.1% 99.3% 99.4% 99.6% 99.8%	2.0% 1.6% 1.6% 1.2% 0.9% 0.7% 0.6% 0.4% 0.2%	U.94 PM Peak
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9:00 PM	3	39	6	10	71	6	4	63	7	6	83	6	304	99.7%	0.3%	
9:15 PM	3	42	2	9	59	7	3	62	3	6	68	6	270	99.6%	0.4%	
9:30 PM	2	30	1	6	59	6	3	49	4	6	59	5	230	100.0%	0.0%	
9:45 PM	0	28	0	3	45	6	3	40	6	5	55	4	195	100.0%	0.0%	
10:00 PM	0	30	1	2	46	5	2	36	7	3	50	4	186	100.0%	0.0%	
10:15 PM	0	23	2	3	35	2	2	30	7	1	40	3	148	99.3%	0.7%	
10:30 PM	2	21	2	4	22	1	1	24	5	0	28	2	112	99.1%	0.9%	
10:45 PM	2	19	2	4	22	0	0	18	2	0	23	2	94	98.9%	1.1%	
11:00 PM	2	12	1	2	22	0	0	13	2	0	22	0	76	98.7%	1.3%	
11:15 PM	2	5	0	1	17	0	0	7	1	0	19	0				
11:30 PM	0	2	0	0	14	0	0	4	1	0	14	0				
11:45 PM	0	1	0	0	8	0	0	3	1	0	9	0				
Movement Total	259	2360	185	458	3406	235	352	2645	555	246	4363	449				Movement Total
PC %	98.1%	99.1%	96.8%	97.8%	98.1%	99.6%	100.0%	98.9%	98.7%	99.2%	98.3%	98.9%			_	PC %
Heavy Veh %	1.9%	0.9%	3.2%	2.2%	1.9%	0.4%	0.0%	1.1%	1.3%	0.8%	1.7%	1.1%				Heavy Veh %

Chicago Avenue & Harlem Avenue 12/06/2022 12:00 AM

		arlem Aveni Southbound			nicago Aver Westbound			arlem Aven		C	hicago Aven Eastbound						
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Hourly Total	PC %	Heavy Veh %	Peak Hour Factor	FILTER
12:00 AM	6	123	1	6	7	7	4	169	16	0	9	3	351	98.0%	2.0%		
12:15 AM	6	114	0	1	6	6	3	141	12	0	10	1	300	98.0%	2.0%		
12:30 AM	5	99	0	3	5	5	2	125	12	0	6	1	263	98.5%	1.5%		
12:45 AM	5	93	0	4	5	6	1	124	4	0	3	0	245	98.4%	1.6%		
1:00 AM	4	90	0	4	3	4	2	124	6	0	4	0	241	97.9%	2.1%		
1:15 AM	2	87	0	6	4	3	1	116	5	0	3	0	227	96.5%	3.5%		
1:30 AM	5	96	0	4	3	3	1	105	4	0	5	1	227	94.3%	5.7%		
1:45 AM	4	99	0	7	3	1	2	87	4	0	5	1	213	94.4%	5.6%		
2:00 AM	6	97	0	7	3	2	2	75	3	0	4	1	200	93.0%	7.0%		
2:15 AM	6	97	0	4	2	1	2	70	5	0	2	1	190	93.2%	6.8%		
2:30 AM	3	86	1	5	2	2	2	60	4	0	2	1	168	93.5%	6.5%		
2:45 AM	5	104	1	2	3	4	2	66	5	0	2	2	196	91.3%	8.7%		
3:00 AM	6	122	1	4	6	5	2	79	4	0	3	4	236	93.6%	6.4%		
3:15 AM	10	156	1	7	7	6	2	97	3	0	4	4	297	94.3%	5.7%		
3:30 AM	11	211	0	8	10	5	2	121	4	0	7	3	382	94.8%	5.2%		
3:45 AM	11	250	1	11	10	7	2	168	3	0	12	6	481	95.8%	4.2%		
4:00 AM	10	296	2	14	9	10	3	191	6	0	13	4	558	95.9%	4.1%		
4:15 AM	11	358	3	16	16	18	4	230	7	1	15	6	685	95.0%	5.0%		
4:30 AM	15	434	3	19	22	28	7	282	8	3	11	9	841	95.8%	4.2%		
4:45 AM	18	508	2	22	34	28	8	318	10	4	20	7	979	96.2%	3.8%		
5:00 AM	26	570	3	22	37	29	13	403	9	6	35	9	1162	95.9%	4.1%		
5:15 AM	33	675	2	32	46	32	18	467	13	5	40	14	1377	96.3%	3.7%		
5:30 AM	37	716	3	43	58	33	16	518	20	6	65	15	1530	95.8%	4.2%		
5:45 AM	49	826	5	60	61	43	18	563	37	11	90	25	1788	95.7%	4.3%		
6:00 AM	58	948	6	76	86	51	22	617	54	17	134	32	2101	95.5%	4.5%		
6:15 AM	65	1004	8	85	101	50	25	664	72	22	185	34	2315	95.6%	4.4%		
6:30 AM	83	1063	14	89	134	54	31	712	80	24	226	38	2548	95.8%	4.2%		
6:45 AM	90	1075	18	93	185	60	38	796	79	29	274	39	2776	95.9%	4.1%		
7:00 AM	94	1107	23	104	214	63	41	824	88	32	279	50	2919	96.1%	3.9%		
7:15 AM	97	1103	27	119	261	74	54	905	92	36	293	55	3116	96.2%	3.8%		
7:30 AM	96	1120	32	143	267	83	67	940	108	40	305	57	3258	96.5%	3.5%	0.96	AM Peak
7:45 AM	97	1135	33	146	256	92	72	931	122	34	270	58	3246	96.4%	3.6%		
8:00 AM	92	1102	34	152	262	99	65	930	117	26	282	50	3211	96.4%	3.6%		
8:15 AM	83	1040	30	140	213	93	52	863	106	23	268	43	2954	96.2%	3.8%		
8:30 AM	70	1010	20	123	191	92	49	845	102	24	230	41	2797	95.7%	4.3%		
8:45 AM	59	935	17	123	177	84	47	834	95	23	208	34	2636	95.4%	4.6%		
9:00 AM	62	902	14	117	143	82	48	842	97	23	177	33	2540	95.1%	4.9%		
9:15 AM	64	897	17	129	138	95	49	820	104	26	152	38	2529	94.7%	5.3%		

9:30 AM	66	855	20	124	137	86	40	827	104	20	145	43	2467	94.6%	5.4%		
9:45 AM	72	829	19	117	135	76	36	784	107	24	156	45	2400	94.9%	5.1%		
10:00 AM	70	832	15	114	145	82	39	787	125	31	159	45	2444	94.9%	5.1%		
10:15 AM	68	836	18	106	164	75	37	820	124	33	167	44	2492	94.7%	5.3%		
10:30 AM	69	868	19	108	180	76	41	848	131	38	158	41	2577	94.5%	5.5%		
10:45 AM	60	870	24	118	181	86	45	913	120	37	172	44	2670	94.2%	5.8%		
11:00 AM	58	837	26	122	179	89	55	905	116	35	156	47	2625	94.6%	5.4%		
11:15 AM	66	840	23	120	177	88	65	882	126	34	159	55	2635	95.2%	4.8%		
11:30 AM	70	835	24	118	171	95	69	860	122	30	190	53	2637	95.4%	4.6%		
11:45 AM	71	818	20	120	178	100	71	820	126	32	195	62	2613	96.1%	3.9%		
12:00 PM	78	863	21	108	177	90	61	829	128	32	200	64	2651	95.9%	4.1%		
12:15 PM	74	870	22	112	174	84	63	838	121	32	213	55	2658	95.9%	4.1%		
12:30 PM	61	881	23	117	173	76	60	810	118	37	205	58	2619	96.0%	4.0%		
12:45 PM	64	914	24	106	189	75	61	785	123	34	201	49	2625	95.5%	4.5%		
1:00 PM	56	916	25	118	191	88	70	784	110	36	200	45	2639	96.2%	3.8%		
1:15 PM	59	925	23	109	195	94	57	825	114	41	191	50	2683	96.4%	3.6%		
1:30 PM	68	941	27	122	214	102	53	917	111	42	191	54	2842	96.5%	3.5%		
1:45 PM	71	991	27	133	214	104	43	967	115	50	210	56	2981	96.4%	3.6%		
2:00 PM	79	982	32	138	245	94	34	981	127	53	249	58	3072	96.2%	3.8%		
2:15 PM	80	1030	35	159	264	110	45	1001	116	52	275	52	3219	96.2%	3.8%		
2:30 PM	88	1049	28	162	296	113	63	960	110	54	315	60	3298	96.6%	3.4%		
2:45 PM	92	1074	31	170	336	121	68	969	108	55	329	58	3411	97.2%	2.8%		
3:00 PM	89	1075	24	163	348	129	70	1007	120	52	342	65	3484	97.4%	2.6%		
3:15 PM	95	1056	23	162	359	128	71	1019	140	55	362	76	3546	97.6%	2.4%		
3:30 PM	88	1059	24	150	342	131	61	1023	156	57	372	76	3539	97.7%	2.3%		
3:45 PM	88	1021	22	139	314	129	75	1029	162	56	373	87	3495	97.6%	2.4%		
4:00 PM	94	1058	21	147	317	136	80	1008	154	59	391	99	3564	97.9%	2.1%	0.93	PM Peak
4:15 PM	96	1058	23	138	329	125	85	997	148	58	390	94	3541	98.1%	1.9%	0.00	
4:30 PM	97	1044	25	134	346	123	94	985	149	60	404	82	3543	98.2%	1.8%		
4:45 PM	88	1043	21	148	344	119	88	992	150	69	409	72	3543	98.4%	1.6%		
5:00 PM	83	997	19	139	343	105	87	949	131	68	388	54	3363	98.4%	1.6%		
5:15 PM	80	968	19	143	314	119	72	938	133	63	378	55	3282	98.5%	1.5%		
5:30 PM	78	970	14	152	268	114	64	945	126	57	354	60	3202	98.6%	1.4%		
5:45 PM	91	1005	14	138	243	110	56	935	123	41	331	62	3149	98.6%	1.4%		
6:00 PM	90	964	17	132	200	101	58	955	132	35	300	61	3045	98.6%	1.4%		
6:15 PM	81	918	12	124	184	80	66	959	123	32	259	56	2894	98.6%	1.4%		
6:30 PM	78	836	10	105	167	70	60	929	116	30	201	46	2648	98.6%	1.4%		
6:45 PM	67	720	9	89	150	60	59	912	109	26	171	42	2414	98.6%	1.4%		
7:00 PM	59	674	11	82	129	56	51	874	95	27	151	33	2242	98.7%	1.3%		
7:15 PM	52	641	9	70	107	56	46	800	93	20	133	30	2057	98.7%	1.3%		
7:13 FM 7:30 PM	44	613	9	63	85	52	40	748	80	13	116	32	1896	98.5%	1.5%		
7:45 PM	36	605	10	54	74	53	43	697	77	16	91	25	1781	98.7%	1.3%		
8:00 PM	38	613	5	5 4 57	68	50	39	650	71	10	71	29	1701	98.2%	1.8%		
			5 7		70		39 32	620		10	53						
8:15 PM 8:30 PM	38 39	605 587	9	59 60	70° 71	47 54	32 28		62 65			31 26	1634	98.3% 98.3%	1.7% 1.7%		
				60		54 50		614		11	51		1615				
8:45 PM	34	564	7	63	60	50	18	581	60	10	44	27	1518	98.2%	1.8%		

9:00 PM	26	509	8	51	55	45	17	530	57	12	38	22	1370	98.3%	1.7%	
9:15 PM	20	477	5	38	41	41	21	505	55	12	43	15	1273	98.0%	2.0%	
9:30 PM	20	466	3	36	34	34	22	488	49	12	43	13	1220	98.4%	1.6%	
9:45 PM	22	402	3	29	30	29	24	451	51	9	41	8	1099	98.4%	1.6%	
10:00 PM	22	380	3	25	24	28	20	441	47	7	37	7	1041	98.5%	1.5%	
10:15 PM	22	337	3	23	23	20	15	412	44	6	32	7	944	98.3%	1.7%	
10:30 PM	17	271	2	18	18	16	13	371	40	3	25	7	801	98.3%	1.7%	
10:45 PM	16	246	2	16	17	14	9	359	25	1	17	8	730	98.1%	1.9%	
11:00 PM	11	207	0	13	14	14	9	329	24	0	13	6	640	97.3%	2.7%	
11:15 PM	7	141	0	7	8	11	5	238	14	0	6	3				
11:30 PM	5	83	0	3	7	8	3	144	10	0	2	2				
11:45 PM	2	41	0	1	1	3	2	63	6	0	2	1	,			
Movement Total	1217	16264	311	1915	3205	1459	892	15283	1837	561	3635	821				Movement Total
PC %	97.8%	96.2%	96.8%	97.3%	98.1%	97.7%	98.8%	96.2%	96.9%	98.2%	98.2%	98.2%			_	PC %
Heavy Veh %	2.2%	3.8%	3.2%	2.7%	1.9%	2.3%	1.2%	3.8%	3.1%	1.8%	1.8%	1.8%				Heavy Veh %

Augusta Street & Thatcher Avenue 12/08/2022 12:00 AM

		atcher Aver			ugusta Stre		Th	atcher Aver			0						
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	0	0	0	Hourly Total	PC %	Heavy Veh %	Peak Hour Factor	FILTER
12:00 AM	1	19	0	0	0	1	0	14	1	0	0	0	36	100.0%	0.0%		
12:15 AM	0	16	0	0	0	1	0	10	2	0	0	0	29	100.0%	0.0%		
12:30 AM	0	11	0	0	0	1	0	8	1	0	0	0	21	100.0%	0.0%		
12:45 AM	0	11	0	0	0	1	0	7	2	0	0	0	21	100.0%	0.0%		
1:00 AM	0	11	0	1	0	1	0	8	2	0	0	0	23	100.0%	0.0%		
1:15 AM	0	10	0	1	0	1	0	8	1	0	0	0	21	100.0%	0.0%		
1:30 AM	0	10	0	1	0	1	0	8	1	0	0	0	21	95.2%	4.8%		
1:45 AM	0	10	0	1	0	0	0	9	0	0	0	0	20	95.0%	5.0%		
2:00 AM	0	10	0	0	0	0	0	7	0	0	0	0	17	94.1%	5.9%		
2:15 AM	0	12	0	0	0	0	0	7	0	0	0	0	19	94.7%	5.3%		
2:30 AM	2	11	0	0	0	1	0	6	0	0	0	0	20	100.0%	0.0%		
2:45 AM	2	11	0	0	0	3	0	3	0	0	0	0	19	100.0%	0.0%		
3:00 AM	2	11	0	0	0	3	0	3	0	0	0	0	19	100.0%	0.0%		
3:15 AM	2	11	0	0	0	4	0	1	0	0	0	0	18	100.0%	0.0%		
3:30 AM	0	15	0	0	0	4	0	4	0	0	0	0	23	100.0%	0.0%		
3:45 AM	0	16	0	2	0	3	0	6	0	0	0	0	27	100.0%	0.0%		
4:00 AM	0	19	0	2	0	4	0	7	0	0	0	0	32	100.0%	0.0%		
4:15 AM	0	21	0	4	0	3	0	13	0	0	0	0	41	100.0%	0.0%		
4:30 AM	0	27	0	6	0	5	0	15	0	0	0	0	53	100.0%	0.0%		
4:45 AM	0	40	0	4	0	6	0	24	1	0	0	0	75	100.0%	0.0%		
5:00 AM	0	49	0	4	0	7	0	34	2	0	0	0	96	96.9%	3.1%		
5:15 AM	0	61	0	2	0	9	0	45	3	0	0	0	120	97.5%	2.5%		
5:30 AM	0	85	0	1	0	14	0	59	4	0	0	0	163	97.5%	2.5%		
5:45 AM	0	103	0	2	0	15	0	74	7	0	0	0	201	97.0%	3.0%		
6:00 AM	1	164	0	10	0	17	0	103	7	0	0	0	302	98.7%	1.3%		
6:15 AM	1	213	0	15	0	22	0	134	19	0	0	0	404	98.3%	1.7%		
6:30 AM	1	272	0	15	0	31	0	179	33	0	0	0	531	98.7%	1.3%		
6:45 AM	2	341	0	19	0	47	0	240	37	0	0	0	686	98.7%	1.3%		
7:00 AM	3	388	0	27	0	58	0	306	50	0	0	0	832	99.0%	1.0%		
7:15 AM	3	415	0	40	0	69	0	347	47	0	0	0	921	99.2%	0.8%		
7:30 AM	5	427	0	51	0	67	0	351	41	0	0	0	942	99.0%	1.0%	0.85	AM Peak
7:45 AM	4	405	0	55	0	58	0	327	47	0	0	0	896	99.0%	1.0%		
8:00 AM	2	354	0	40	0	55	0	274	38	0	0	0	763	98.4%	1.6%		
8:15 AM	2	306	0	29	0	45	0	237	34	0	0	0	653	97.1%	2.9%		
8:30 AM	1	243	0	20	0	43	0	213	29	0	0	0	549	96.4%	3.6%		
8:45 AM	2	227	0	18	0	42	0	210	16	0	0	0	515	95.9%	4.1%		
9:00 AM	2	204	0	22	0	38	0	208	14	0	0	0	488	95.5%	4.5%		
9:15 AM	3	206	0	19	0	41	0	193	12	0	0	0	474	96.4%	3.6%		

9:30 AM	2	229	0	22	0	40	0	189	12	0	0	0	494	97.2%	2.8%	
9:45 AM	1	205	0	17	0	37	0	167	12	0	0	0	439	97.7%	2.3%	
10:00 AM	2	212	0	15	0	40	0	153	10	0	0	0	432	98.1%	1.9%	
10:15 AM	2	199	0	15	0	37	0	159	9	0	0	0	421	98.3%	1.7%	
10:30 AM	2	200	0	13	0	31	0	161	10	0	0	0	417	98.3%	1.7%	
10:45 AM	3	219	0	14	0	34	0	167	10	0	0	0	447	98.7%	1.3%	
11:00 AM	4	210	0	15	0	35	0	181	14	0	0	0	459	98.5%	1.5%	
11:15 AM	5	246	0	15	0	43	0	181	16	0	0	0	506	98.8%	1.2%	
11:30 AM	6	238	0	18	0	47	0	181	12	0	0	0	502	98.6%	1.4%	
11:45 AM	5	236	0	20	0	52	0	197	12	0	0	0	522	97.5%	2.5%	
12:00 PM	3	267	0	21	0	47	0	192	12	0	0	0	542	98.0%	2.0%	
12:15 PM	3	257	0	24	0	40	0	190	7	0	0	0	521	98.1%	1.9%	
12:30 PM	6	269	0	24	0	45	0	186	8	0	0	0	538	98.5%	1.5%	
12:45 PM	8	298	0	24	0	38	0	167	9	0	0	. 0	544	99.1%	0.9%	
1:00 PM	8	284	0	26	0	40	0	179	6	0	0	0	543	99.1%	0.9%	
1:15 PM	8	301	0	23	0	43	0	181	12	0	0	0	568	98.8%	1.2%	
1:30 PM	6	331	0	25	0	42	0	199	17	0	0	0	620	98.7%	1.3%	
1:45 PM	7	347	0	24	0	40	0	237	18	0	0	0	673	99.3%	0.7%	
2:00 PM	10	410	0	25	0	49	0	251	25	0	0	0	770	99.1%	0.9%	
2:15 PM	8	453	0	29	0	63	0	273	33	0	0	0	859	99.2%	0.8%	
2:30 PM	6	502	0	31	0	68	0	291	32	0	0	0	930	98.9%	1.1%	
2:45 PM	4	520	0	40	0	80	0	295	46	0	0	0	985	98.4%	1.6%	
3:00 PM	4	529	0	46	0	83	0	304	50	0	0	0	1016	97.7%	2.3%	
3:15 PM	14	544	0	47	0	78	0	343	46	0	0	0	1072	97.6%	2.4%	
3:30 PM	19	547	0	49	0	85	0	366	56	0	0	0	1122	97.3%	2.7%	
3:45 PM	10															
	20	571														n 92 PM Peak
	20 17	571 565	0	44	0	89	0	364	56	0	0	0	1144	97.7%	2.3%	0.92 PM Peak
4:00 PM	17	565	0	44 38	0	89 94	0	364 371	56 54	0	0	0	1144 1139	97.7% 98.5%	2.3% 1.5%	0.92 PM Peak
4:00 PM 4:15 PM	17 11	565 560	0 0 0	44 38 38	0 0 0	89 94 91	0 0 0	364 371 356	56 54 59	0 0 0	0 0 0	0 0 0	1144 1139 1115	97.7% 98.5% 98.8%	2.3% 1.5% 1.2%	0.92 PM Peak
4:00 PM 4:15 PM 4:30 PM	17 11 12	565 560 525	0 0 0 0	38 38 32	0 0 0 0	89 94 91 80	0 0 0 0	364 371 356 363	56 54 59 52	0 0 0 0	0 0 0 0	0 0 0 0	1144 1139 1115 1064	97.7% 98.5% 98.8% 99.2%	2.3% 1.5% 1.2% 0.8%	0.92 PM Peak
4:00 PM 4:15 PM 4:30 PM 4:45 PM	17 11 12 12	565 560 525 488	0 0 0 0	38 38 32 26	0 0 0 0	89 94 91 80 67	0 0 0 0	364 371 356 363 385	56 54 59 52 40	0 0 0 0	0 0 0 0	0 0 0 0	1144 1139 1115 1064 1018	97.7% 98.5% 98.8% 99.2% 99.1%	2.3% 1.5% 1.2% 0.8% 0.9%	0.92 PM Peak
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM	17 11 12 12 12	565 560 525 488 486	0 0 0 0 0	44 38 38 32 26 19	0 0 0 0 0	89 94 91 80 67 41	0 0 0 0 0	364 371 356 363 385 414	56 54 59 52 40 30	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	1144 1139 1115 1064 1018 1002	97.7% 98.5% 98.8% 99.2% 99.1% 99.0%	2.3% 1.5% 1.2% 0.8% 0.9% 1.0%	0.92 PM Peak
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	17 11 12 12 12 12	565 560 525 488 486 473	0 0 0 0 0 0	44 38 38 32 26 19	0 0 0 0 0	89 94 91 80 67 41 23	0 0 0 0 0 0	364 371 356 363 385 414 406	56 54 59 52 40 30 15	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1144 1139 1115 1064 1018 1002 938	97.7% 98.5% 98.8% 99.2% 99.1% 99.0% 99.1%	2.3% 1.5% 1.2% 0.8% 0.9% 1.0% 0.9%	0.92 PM Peak
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM	17 11 12 12 12 10 6	565 560 525 488 486 473	0 0 0 0 0 0	44 38 38 32 26 19 11	0 0 0 0 0 0	89 94 91 80 67 41 23	0 0 0 0 0 0	364 371 356 363 385 414 406 386	56 54 59 52 40 30 15	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1144 1139 1115 1064 1018 1002 938 865	97.7% 98.5% 98.8% 99.2% 99.1% 99.0% 99.1% 99.3%	2.3% 1.5% 1.2% 0.8% 0.9% 1.0% 0.9% 0.7%	0.92 PM Peak
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM	17 11 12 12 12 10 6	565 560 525 488 486 473 438 412	0 0 0 0 0 0 0	44 38 38 32 26 19 11 10	0 0 0 0 0 0	89 94 91 80 67 41 23 14	0 0 0 0 0 0	364 371 356 363 385 414 406 386 329	56 54 59 52 40 30 15 11	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	1144 1139 1115 1064 1018 1002 938 865 789	97.7% 98.5% 98.8% 99.2% 99.1% 99.0% 99.1% 99.3% 99.6%	2.3% 1.5% 1.2% 0.8% 0.9% 1.0% 0.9% 0.7% 0.4%	0.92 PM Peak
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM 6:00 PM	17 11 12 12 12 10 6 6 7	565 560 525 488 486 473 438 412 342	0 0 0 0 0 0 0	44 38 38 32 26 19 11 10 13	0 0 0 0 0 0 0	89 94 91 80 67 41 23 14 17	0 0 0 0 0 0 0	364 371 356 363 385 414 406 386 329 267	56 54 59 52 40 30 15 11 12	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	1144 1139 1115 1064 1018 1002 938 865 789 670	97.7% 98.5% 98.8% 99.2% 99.1% 99.0% 99.1% 99.3% 99.6% 99.7%	2.3% 1.5% 1.2% 0.8% 0.9% 1.0% 0.9% 0.7% 0.4%	0.92 PM Peak
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM 6:00 PM 6:15 PM	17 11 12 12 12 10 6 6 7	565 560 525 488 486 473 438 412 342 266	0 0 0 0 0 0 0 0	44 38 38 32 26 19 11 10 13 14	0 0 0 0 0 0 0 0	89 94 91 80 67 41 23 14 17 21	0 0 0 0 0 0 0 0	364 371 356 363 385 414 406 386 329 267 244	56 54 59 52 40 30 15 11 12 19 23	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	1144 1139 1115 1064 1018 1002 938 865 789 670 582	97.7% 98.5% 98.8% 99.2% 99.1% 99.0% 99.1% 99.3% 99.6% 99.7%	2.3% 1.5% 1.2% 0.8% 0.9% 1.0% 0.9% 0.7% 0.4% 0.3%	0.92 PM Peak
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM 6:00 PM 6:15 PM 6:30 PM	17 11 12 12 12 10 6 6 7 6 5	565 560 525 488 486 473 438 412 342 266 240	0 0 0 0 0 0 0 0 0	44 38 38 32 26 19 11 10 13 14 14 13	0 0 0 0 0 0 0 0 0	89 94 91 80 67 41 23 14 17 21 29	0 0 0 0 0 0 0 0 0	364 371 356 363 385 414 406 386 329 267 244 188	56 54 59 52 40 30 15 11 12 19 23 25	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	1144 1139 1115 1064 1018 1002 938 865 789 670 582 500	97.7% 98.5% 98.8% 99.2% 99.1% 99.0% 99.1% 99.3% 99.6% 99.7% 99.7% 99.4%	2.3% 1.5% 1.2% 0.8% 0.9% 1.0% 0.9% 0.7% 0.4% 0.3% 0.3% 0.6%	0.92 PM Peak
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM 6:00 PM 6:15 PM 6:30 PM	17 11 12 12 12 10 6 6 7 6 5	565 560 525 488 486 473 438 412 342 266 240	0 0 0 0 0 0 0 0 0 0	44 38 38 32 26 19 11 10 13 14 14 13	0 0 0 0 0 0 0 0 0 0	89 94 91 80 67 41 23 14 17 21 29 29	0 0 0 0 0 0 0 0 0 0	364 371 356 363 385 414 406 386 329 267 244 188	56 54 59 52 40 30 15 11 12 19 23 25	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	1144 1139 1115 1064 1018 1002 938 865 789 670 582 500	97.7% 98.5% 98.8% 99.2% 99.1% 99.0% 99.1% 99.3% 99.6% 99.7% 99.7% 99.4%	2.3% 1.5% 1.2% 0.8% 0.9% 1.0% 0.9% 0.7% 0.4% 0.3% 0.3% 0.6% 0.7%	0.92 PM Peak
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 6:00 PM 6:15 PM 6:30 PM 6:45 PM 7:00 PM	17 11 12 12 12 10 6 6 7 6 5	565 560 525 488 486 473 438 412 342 266 240 206	0 0 0 0 0 0 0 0 0 0 0	44 38 38 32 26 19 11 10 13 14 14 13	0 0 0 0 0 0 0 0 0 0 0	89 94 91 80 67 41 23 14 17 21 29 29 24 21	0 0 0 0 0 0 0 0 0 0	364 371 356 363 385 414 406 386 329 267 244 188 166 139	56 54 59 52 40 30 15 11 12 19 23 25 21	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	1144 1139 1115 1064 1018 1002 938 865 789 670 582 500 436 390	97.7% 98.5% 98.8% 99.2% 99.1% 99.0% 99.1% 99.3% 99.6% 99.7% 99.7% 99.4% 99.3% 99.5%	2.3% 1.5% 1.2% 0.8% 0.9% 1.0% 0.9% 0.7% 0.4% 0.3% 0.3% 0.6% 0.7%	0.92 PM Peak
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 6:00 PM 6:15 PM 6:30 PM 6:45 PM 7:00 PM 7:15 PM	17 11 12 12 12 10 6 6 7 6 5	565 560 525 488 486 473 438 412 342 266 240 206 197 202	0 0 0 0 0 0 0 0 0 0 0	44 38 38 32 26 19 11 10 13 14 14 13	0 0 0 0 0 0 0 0 0 0 0 0	89 94 91 80 67 41 23 14 17 21 29 29 24 21 18	0 0 0 0 0 0 0 0 0 0	364 371 356 363 385 414 406 386 329 267 244 188 166 139 104	56 54 59 52 40 30 15 11 12 19 23 25 21 15	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	1144 1139 1115 1064 1018 1002 938 865 789 670 582 500 436 390 352	97.7% 98.5% 98.8% 99.2% 99.1% 99.0% 99.1% 99.3% 99.6% 99.7% 99.7% 99.4% 99.3% 99.5% 99.4%	2.3% 1.5% 1.2% 0.8% 0.9% 1.0% 0.9% 0.7% 0.4% 0.3% 0.3% 0.6% 0.7% 0.5%	0.92 PM Peak
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 6:00 PM 6:15 PM 6:30 PM 7:00 PM 7:00 PM 7:30 PM	17 11 12 12 12 10 6 6 7 6 5 5 4 3	565 560 525 488 486 473 438 412 342 266 240 206 197 202 183	0 0 0 0 0 0 0 0 0 0 0	44 38 38 32 26 19 11 10 13 14 14 13 14 14 13 9	0 0 0 0 0 0 0 0 0 0 0 0	89 94 91 80 67 41 23 14 17 21 29 29 24 21 18 16	0 0 0 0 0 0 0 0 0 0 0	364 371 356 363 385 414 406 386 329 267 244 188 166 139 104	56 54 59 52 40 30 15 11 12 19 23 25 21 15 12 8	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	1144 1139 1115 1064 1018 1002 938 865 789 670 582 500 436 390 352 322	97.7% 98.5% 98.8% 99.2% 99.1% 99.0% 99.1% 99.3% 99.6% 99.7% 99.7% 99.4% 99.3% 99.5% 99.4% 100.0%	2.3% 1.5% 1.2% 0.8% 0.9% 1.0% 0.9% 0.7% 0.4% 0.3% 0.3% 0.6% 0.7% 0.5% 0.6% 0.0%	0.92 PM Peak
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 6:00 PM 6:15 PM 6:30 PM 7:00 PM 7:00 PM 7:30 PM 7:30 PM	17 11 12 12 12 10 6 6 7 6 5 5 4 3 4 2	565 560 525 488 486 473 438 412 342 266 240 206 197 202 183 164	0 0 0 0 0 0 0 0 0 0 0 0	44 38 38 32 26 19 11 10 13 14 14 13 14 14 13 9 3	0 0 0 0 0 0 0 0 0 0 0 0 0	89 94 91 80 67 41 23 14 17 21 29 29 24 21 18 16 12	0 0 0 0 0 0 0 0 0 0 0	364 371 356 363 385 414 406 386 329 267 244 188 166 139 104 102 94	56 54 59 52 40 30 15 11 12 19 23 25 21 15 12 8	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	1144 1139 1115 1064 1018 1002 938 865 789 670 582 500 436 390 352 322 283	97.7% 98.5% 98.8% 99.2% 99.1% 99.0% 99.1% 99.3% 99.6% 99.7% 99.7% 99.4% 99.3% 99.5% 99.4% 100.0%	2.3% 1.5% 1.2% 0.8% 0.9% 1.0% 0.9% 0.7% 0.4% 0.3% 0.3% 0.6% 0.7% 0.5% 0.6% 0.0%	0.92 PM Peak
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 6:00 PM 6:15 PM 6:30 PM 7:00 PM 7:15 PM 7:30 PM 7:30 PM 7:45 PM 8:00 PM	17 11 12 12 12 10 6 6 7 6 5 5 4 3 4 2	565 560 525 488 486 473 438 412 342 266 240 206 197 202 183 164 138	0 0 0 0 0 0 0 0 0 0 0 0	44 38 38 32 26 19 11 10 13 14 14 13 9 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	89 94 91 80 67 41 23 14 17 21 29 29 24 21 18 16 12 14	0 0 0 0 0 0 0 0 0 0 0 0	364 371 356 363 385 414 406 386 329 267 244 188 166 139 104 102 94 83	56 54 59 52 40 30 15 11 12 19 23 25 21 15 12 8 8	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	1144 1139 1115 1064 1018 1002 938 865 789 670 582 500 436 390 352 322 283 247	97.7% 98.5% 98.8% 99.2% 99.1% 99.0% 99.1% 99.3% 99.6% 99.7% 99.7% 99.4% 100.0% 100.0%	2.3% 1.5% 1.2% 0.8% 0.9% 1.0% 0.9% 0.7% 0.4% 0.3% 0.3% 0.6% 0.7% 0.5% 0.6% 0.0% 0.0%	0.92 PM Peak
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 6:00 PM 6:15 PM 6:30 PM 7:00 PM 7:00 PM 7:30 PM 7:30 PM 7:45 PM 8:00 PM 8:15 PM	17 11 12 12 12 10 6 6 7 6 5 5 4 3 4 2 2 3	565 560 525 488 486 473 438 412 342 266 240 206 197 202 183 164 138 127	0 0 0 0 0 0 0 0 0 0 0 0	44 38 38 32 26 19 11 10 13 14 14 13 14 14 13 9 3 3 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	89 94 91 80 67 41 23 14 17 21 29 29 24 21 18 16 12 14 11	0 0 0 0 0 0 0 0 0 0 0 0	364 371 356 363 385 414 406 386 329 267 244 188 166 139 104 102 94 83 87	56 54 59 52 40 30 15 11 12 19 23 25 21 15 12 8 8 7	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	1144 1139 1115 1064 1018 1002 938 865 789 670 582 500 436 390 352 322 283 247 239	97.7% 98.5% 98.8% 99.2% 99.1% 99.0% 99.1% 99.3% 99.6% 99.7% 99.7% 99.4% 100.0% 100.0% 100.0%	2.3% 1.5% 1.2% 0.8% 0.9% 1.0% 0.9% 0.7% 0.4% 0.3% 0.3% 0.6% 0.7% 0.5% 0.6% 0.0% 0.0%	0.92 PM Peak
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 6:00 PM 6:15 PM 6:30 PM 7:00 PM 7:15 PM 7:30 PM 7:30 PM 7:45 PM 8:00 PM	17 11 12 12 12 10 6 6 7 6 5 5 4 3 4 2	565 560 525 488 486 473 438 412 342 266 240 206 197 202 183 164 138	0 0 0 0 0 0 0 0 0 0 0 0	44 38 38 32 26 19 11 10 13 14 14 13 9 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	89 94 91 80 67 41 23 14 17 21 29 29 24 21 18 16 12 14	0 0 0 0 0 0 0 0 0 0 0 0	364 371 356 363 385 414 406 386 329 267 244 188 166 139 104 102 94 83	56 54 59 52 40 30 15 11 12 19 23 25 21 15 12 8 8	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	1144 1139 1115 1064 1018 1002 938 865 789 670 582 500 436 390 352 322 283 247	97.7% 98.5% 98.8% 99.2% 99.1% 99.0% 99.1% 99.3% 99.6% 99.7% 99.7% 99.4% 100.0% 100.0%	2.3% 1.5% 1.2% 0.8% 0.9% 1.0% 0.9% 0.7% 0.4% 0.3% 0.3% 0.6% 0.7% 0.5% 0.6% 0.0% 0.0%	0.92 PM Peak

9:00 PM	2	113	0	6	0	9	0	65	2	0	0	0	197	100.0%	0.0%	
9:15 PM	1	89	0	5	0	8	0	57	3	0	0	0	163	99.4%	0.6%	
9:30 PM	1	77	0	5	0	8	0	57	4	0	0	0	152	99.3%	0.7%	
9:45 PM	1	70	0	4	0	7	0	50	6	0	0	0	138	99.3%	0.7%	
10:00 PM	0	65	0	2	0	5	0	49	6	0	0	0	127	99.2%	0.8%	
10:15 PM	0	63	0	3	0	5	0	39	6	0	0	0	116	100.0%	0.0%	
10:30 PM	0	47	0	2	0	2	0	33	4	0	0	0	88	100.0%	0.0%	
10:45 PM	0	42	0	2	0	1	0	31	2	0	0	0	78	100.0%	0.0%	
11:00 PM	0	33	0	1	0	2	0	31	2	0	0	0	69	100.0%	0.0%	
11:15 PM	0	22	0	0	0	1	0	22	0	0	0	0				
11:30 PM	0	16	0	0	0	1	0	12	0	0	0	0				
11:45 PM	0	7	0	0	0	1	0	6	0	0	0	0				
Movement Total	86	5080	0	351	0	685	0	3643	366	0	0	0				Movement Total
PC %	96.5%	98.7%		96.6%		98.5%		98.8%	97.5%				•			PC %
Heavy Veh %	3.5%	1.3%		3.4%		1.5%		1.2%	2.5%							Heavy Veh %

Augusta Street & Lathrop Avenue 12/08/2022 12:00 AM

		athrop Aven Southbound			ugusta Stre Westbound			athrop Aven Northbound		A	Augusta Stre Eastbound						
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Hourly Total	PC %	Heavy Veh %	Peak Hour Factor	FILTER
12:00 AM	0	3	0	0	1	1	0	8	0	2	6	0	21	100.0%	0.0%		
12:15 AM	0	3	0	0	1	2	0	4	0	2	4	0	16	100.0%	0.0%		
12:30 AM	0	4	0	0	1	1	0	4	0	1	2	0	13	100.0%	0.0%		
12:45 AM	0	3	0	0	0	1	0	3	0	0	2	0	9	100.0%	0.0%		
1:00 AM	0	2	0	0	1	1	0	3	0	0	1	0	8	100.0%	0.0%		
1:15 AM	0	3	0	0	1	0	0	2	0	0	1	0	7	100.0%	0.0%		
1:30 AM	0	1	0	0	1	0	0	1	0	0	1	0	4	100.0%	0.0%		
1:45 AM	0	1	0	0	1	0	0	2	0	0	1	0	5	100.0%	0.0%		
2:00 AM	0	1	0	0	0	0	0	1	0	0	1	0	3	100.0%	0.0%		
2:15 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	100.0%	0.0%		
2:30 AM	0	0	0	0	0	0	0	2	1	0	2	0	5	100.0%	0.0%		
2:45 AM	0	0	0	0	1	0	0	2	1	0	2	0	6	100.0%	0.0%		
3:00 AM	0	0	0	0	1	0	1	3	1	0	2	0	8	100.0%	0.0%		
3:15 AM	0	1	0	0	1	0	1	4	1	0	2	0	10	100.0%	0.0%		
3:30 AM	0	2	0	1	2	0	1	4	0	0	0	0	10	100.0%	0.0%		
3:45 AM	0	2	0	1	4	0	1	3	0	0	0	0	11	100.0%	0.0%		
4:00 AM	0	4	0	1	5	0	0	4	0	0	1	0	15	100.0%	0.0%		
4:15 AM	0	3	1	2	8	0	0	4	0	0	1	0	19	100.0%	0.0%		
4:30 AM	0	5	1	3	12	0	0	4	1	0	1	0	27	100.0%	0.0%		
4:45 AM	1	6	1	4	12	0	0	9	1	0	2	0	36	100.0%	0.0%		
5:00 AM	2	11	1	4	15	0	0	11	4	0	2	0	50	98.0%	2.0%		
5:15 AM	2	18	0	5	16	0	1	14	4	0	6	2	68	97.1%	2.9%		
5:30 AM	2	28	1	4	22	0	1	22	4	0	12	2	98	98.0%	2.0%		
5:45 AM	1	44	1	4	26	0	1	21	7	0	15	4	124	97.6%	2.4%		
6:00 AM	1	55	1	6	34	2	1	43	4	1	16	5	169	98.8%	1.2%		
6:15 AM	3	77	2	9	45	2	0	58	8	2	32	4	242	99.2%	0.8%		
6:30 AM	7	103	1	10	58	2	1	78	19	3	59	6	347	99.1%	0.9%		
6:45 AM	13	142	3	13	79	6	3	123	28	3	103	7	523	98.5%	1.5%		
7:00 AM	21	187	5	20	109	16	3	157	36	2	148	10	714	98.2%	1.8%		
7:15 AM	21	212	4	22	158	24	7	185	37	1	155	13	839	98.3%	1.7%		
7:30 AM	20	233	4	28	171	31	11	227	42	0	155	12	934	98.3%	1.7%	0.91	AM Peak
7:45 AM	18	210	3	33	166	30	10	212	35	2	136	12	867	98.6%	1.4%		
8:00 AM	15	181	1	28	147	24	10	189	40	2	98	10	745	98.8%	1.2%		
8:15 AM	13	160	1	23	101	23	8	173	46	3	85	7	643	98.6%	1.4%		
8:30 AM	12	126	1	23	85	17	4	129	40	5	60	8	510	97.8%	2.2%		
8:45 AM	12	122	1	16	83	17	4	128	37	5	38	6	469	97.2%	2.8%		
9:00 AM	8	115	1	14	71	13	8	119	30	5	45	7	436	96.8%	3.2%		
9:15 AM	10	108	3	14	72	11	7	107	22	5	37	9	405	96.5%	3.5%		
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9:30 AM	11	106	3	9	64	14	9	104	11	4	38	7	380	97.6%	2.4%		
9:45 AM	9	108	2	16	60	12	12	103	13	2	38	7	382	98.7%	1.3%		
10:00 AM	9	112	3	14	65	10	8	109	16	2	26	4	378	98.7%	1.3%		
10:15 AM	9	117	2	14	67	12	8	132	18	1	26	2	408	98.8%	1.2%		
10:30 AM	10	121	2	15	64	14	7	145	25	1	26	4	434	98.4%	1.6%		
10:45 AM	10	126	4	10	60	17	9	152	30	1	26	6	451	97.8%	2.2%		
11:00 AM	10	136	3	14	63	20	11	160	27	7	33	7	491	98.0%	2.0%		
11:15 AM	13	148	2	19	65	20	10	162	28	8	39	6	520	98.3%	1.7%		
11:30 AM	12	150	2	17	79	15	11	150	23	7	38	6	510	98.6%	1.4%		
11:45 AM	13	147	0	19	88	17	7	142	18	9	34	3	497	98.8%	1.2%		
12:00 PM	12	146	1	19	85	16	7	144	18	3	32	4	487	99.0%	1.0%		
12:15 PM	8	150	1	21	85	12	7	148	20	3	31	4	490	98.4%	1.6%		
12:30 PM	8	158	2	24	81	12	7	154	22	4	33	2	507	98.4%	1.6%		
12:45 PM	7	164	3	20	76	14	6	175	19	3	35	6	528	98.5%	1.5%		
1:00 PM	12	159	2	25	79	13	5	184	18	4	31	4	536	98.5%	1.5%		
1:15 PM	14	150	3	24	78	16	8	179	14	3	30	8	527	99.1%	0.9%		
1:30 PM	13	145	2	26	85	21	7	186	15	4	34	10	548	98.7%	1.3%		
1:45 PM	12	148	2	35	86	16	6	176	18	3	44	7	553	98.9%	1.1%		
			2				9			3		7			1.1%		
2:00 PM	10 9	150	3	31	101	21	9	170	15	3	62		581	99.0%			
2:15 PM		163		31	127	26		175	16		81	5	648	98.9%	1.1%		
2:30 PM	19	204	7	33	147	29	9	203	18	2	94	5	770	98.7%	1.3%		
2:45 PM	23	205	7	31	176	32	12	216	19	2	101	8	832	98.4%	1.6%		
3:00 PM	23	232	7	42	182	37	9	245	20	3	101	12	913	97.9%	2.1%		
3:15 PM	25	225	7	45	171	29	7	268	23	3	105	11	919	97.7%	2.3%	0.88	PM Peak
3:30 PM	17	196	3	41	177	25	8	272	23	3	114	11	890	97.9%	2.1%	0.88	PM Peak
3:30 PM 3:45 PM	17 17	196 194	3 2	41 43	177 169	25 27	8 8	272 275	23 27	3 3	114 122	11 8	890 895	97.9% 98.2%	2.1% 1.8%	0.88	PM Peak
3:30 PM 3:45 PM 4:00 PM	17 17 15	196 194 164	3 2 3	41 43 41	177 169 168	25 27 16	8 8 11	272 275 256	23 27 37	3 3 4	114 122 127	11 8 10	890 895 852	97.9% 98.2% 98.7%	2.1% 1.8% 1.3%	U.88	PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM	17 17 15 16	196 194 164 162	3 2 3 1	41 43 41 43	177 169 168 166	25 27 16 18	8 8 11 12	272 275 256 242	23 27 37 40	3 3 4 8	114 122 127 134	11 8 10 12	890 895 852 854	97.9% 98.2% 98.7% 99.1%	2.1% 1.8% 1.3% 0.9%	0.88	PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM	17 17 15 16 20	196 194 164 162 172	3 2 3 1 3	41 43 41 43 52	177 169 168 166 148	25 27 16 18 17	8 8 11 12 13	272 275 256 242 242	23 27 37 40 41	3 3 4 8 9	114 122 127 134 130	11 8 10 12 13	890 895 852 854 860	97.9% 98.2% 98.7% 99.1% 99.2%	2.1% 1.8% 1.3% 0.9% 0.8%	0.88	PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM	17 17 15 16 20 17	196 194 164 162 172 179	3 2 3 1 3 4	41 43 41 43 52 54	177 169 168 166 148 140	25 27 16 18 17 13	8 8 11 12 13 13	272 275 256 242 242 236	23 27 37 40 41 42	3 3 4 8 9	114 122 127 134 130 122	11 8 10 12 13	890 895 852 854 860 842	97.9% 98.2% 98.7% 99.1% 99.2% 99.2%	2.1% 1.8% 1.3% 0.9% 0.8% 0.8%	0.88	PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM	17 17 15 16 20 17 20	196 194 164 162 172 179	3 2 3 1 3 4 7	41 43 41 43 52	177 169 168 166 148 140	25 27 16 18 17 13	8 8 11 12 13 13	272 275 256 242 242 236 238	23 27 37 40 41	3 3 4 8 9 9	114 122 127 134 130	11 8 10 12 13 13	890 895 852 854 860 842	97.9% 98.2% 98.7% 99.1% 99.2% 99.2% 99.3%	2.1% 1.8% 1.3% 0.9% 0.8% 0.8% 0.7%	0.88	PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	17 17 15 16 20 17 20 18	196 194 164 162 172 179 190 206	3 2 3 1 3 4 7 8	41 43 41 43 52 54 47	177 169 168 166 148 140 135	25 27 16 18 17 13 16	8 8 11 12 13 13 13	272 275 256 242 242 236 238 231	23 27 37 40 41 42 40 34	3 3 4 8 9 9 7 5	114 122 127 134 130 122	11 8 10 12 13 13 7 5	890 895 852 854 860 842	97.9% 98.2% 98.7% 99.1% 99.2% 99.2% 99.3% 99.4%	2.1% 1.8% 1.3% 0.9% 0.8% 0.8% 0.7% 0.6%	0.88	PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM	17 17 15 16 20 17 20 18 18	196 194 164 162 172 179 190 206 189	3 2 3 1 3 4 7 8 6	41 43 41 43 52 54 47 46 35	177 169 168 166 148 140 135 124	25 27 16 18 17 13 16 15	8 8 11 12 13 13 13 11 10	272 275 256 242 242 236 238 231 223	23 27 37 40 41 42 40 34 34	3 3 4 8 9 9 7 5 3	114 122 127 134 130 122 104 80 73	11 8 10 12 13 13 7 5	890 895 852 854 860 842 824 783	97.9% 98.2% 98.7% 99.1% 99.2% 99.2% 99.3% 99.4%	2.1% 1.8% 1.3% 0.9% 0.8% 0.8% 0.7% 0.6%	0.88	PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	17 17 15 16 20 17 20 18	196 194 164 162 172 179 190 206	3 2 3 1 3 4 7 8 6	41 43 41 43 52 54 47	177 169 168 166 148 140 135	25 27 16 18 17 13 16	8 8 11 12 13 13 13 11 10 9	272 275 256 242 242 236 238 231	23 27 37 40 41 42 40 34	3 3 4 8 9 9 7 5	114 122 127 134 130 122 104	11 8 10 12 13 13 7 5	890 895 852 854 860 842 824 783	97.9% 98.2% 98.7% 99.1% 99.2% 99.2% 99.3% 99.4%	2.1% 1.8% 1.3% 0.9% 0.8% 0.8% 0.7% 0.6%	0.88	PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM	17 17 15 16 20 17 20 18 18	196 194 164 162 172 179 190 206 189	3 2 3 1 3 4 7 8 6	41 43 41 43 52 54 47 46 35	177 169 168 166 148 140 135 124	25 27 16 18 17 13 16 15	8 8 11 12 13 13 13 11 10	272 275 256 242 242 236 238 231 223	23 27 37 40 41 42 40 34 34	3 4 8 9 7 5 3 5 6	114 122 127 134 130 122 104 80 73	11 8 10 12 13 13 7 5	890 895 852 854 860 842 824 783	97.9% 98.2% 98.7% 99.1% 99.2% 99.2% 99.3% 99.4%	2.1% 1.8% 1.3% 0.9% 0.8% 0.8% 0.7% 0.6%	0.88	PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM	17 17 15 16 20 17 20 18 18 20	196 194 164 162 172 179 190 206 189	3 2 3 1 3 4 7 8 6	41 43 41 43 52 54 47 46 35	177 169 168 166 148 140 135 124 107	25 27 16 18 17 13 16 15 14	8 8 11 12 13 13 13 11 10 9	272 275 256 242 242 236 238 231 223 219	23 27 37 40 41 42 40 34 34 28	3 3 4 8 9 7 5 3 5	114 122 127 134 130 122 104 80 73 65	11 8 10 12 13 13 7 5 5	890 895 852 854 860 842 824 783 717 671	97.9% 98.2% 98.7% 99.1% 99.2% 99.2% 99.3% 99.4% 99.4% 99.6%	2.1% 1.8% 1.3% 0.9% 0.8% 0.8% 0.7% 0.6% 0.6%	0.88	PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM 6:00 PM	17 17 15 16 20 17 20 18 18 20	196 194 164 162 172 179 190 206 189 176	3 2 3 1 3 4 7 8 6 6 2	41 43 41 43 52 54 47 46 35 24	177 169 168 166 148 140 135 124 107 96 68	25 27 16 18 17 13 16 15 14 17	8 8 11 12 13 13 13 11 10 9	272 275 256 242 242 236 238 231 223 219 198	23 27 37 40 41 42 40 34 34 28 20	3 4 8 9 7 5 3 5 6	114 122 127 134 130 122 104 80 73 65 70	11 8 10 12 13 13 7 5 5 6	890 895 852 854 860 842 824 783 717 671 589	97.9% 98.2% 98.7% 99.1% 99.2% 99.2% 99.3% 99.4% 99.4% 99.6% 99.8%	2.1% 1.8% 1.3% 0.9% 0.8% 0.8% 0.7% 0.6% 0.6% 0.4%	0.88	PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM 6:00 PM 6:15 PM	17 17 15 16 20 17 20 18 18 20 16	196 194 164 162 172 179 190 206 189 176 156	3 2 3 1 3 4 7 8 6 6 2 1	41 43 41 43 52 54 47 46 35 24 20 8	177 169 168 166 148 140 135 124 107 96 68 56	25 27 16 18 17 13 16 15 14 17 16 13	8 8 11 12 13 13 13 11 10 9 8	272 275 256 242 242 236 238 231 223 219 198 189	23 27 37 40 41 42 40 34 34 28 20 23	3 4 8 9 7 5 3 5 6 5	114 122 127 134 130 122 104 80 73 65 70 60	11 8 10 12 13 13 7 5 5 6 9	890 895 852 854 860 842 824 783 717 671 589	97.9% 98.2% 98.7% 99.1% 99.2% 99.2% 99.3% 99.4% 99.6% 99.8% 99.8%	2.1% 1.8% 1.3% 0.9% 0.8% 0.8% 0.7% 0.6% 0.6% 0.4% 0.2%	0.88	PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM 6:00 PM 6:15 PM	17 17 15 16 20 17 20 18 18 20 16 13	196 194 164 162 172 179 190 206 189 176 156 130	3 2 3 1 3 4 7 8 6 6 2 1 3	41 43 41 43 52 54 47 46 35 24 20 8	177 169 168 166 148 140 135 124 107 96 68 56	25 27 16 18 17 13 16 15 14 17 16 13	8 8 11 12 13 13 13 11 10 9 8 11	272 275 256 242 242 236 238 231 223 219 198 189 162	23 27 37 40 41 42 40 34 34 28 20 23 20	3 4 8 9 7 5 3 5 6 5 7	114 122 127 134 130 122 104 80 73 65 70 60 43	11 8 10 12 13 13 7 5 5 6 9 11	890 895 852 854 860 842 824 783 717 671 589 520	97.9% 98.2% 98.7% 99.1% 99.2% 99.2% 99.3% 99.4% 99.6% 99.8% 99.8% 100.0%	2.1% 1.8% 1.3% 0.9% 0.8% 0.8% 0.7% 0.6% 0.6% 0.4% 0.2% 0.2% 0.0%	0.88	PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM 6:00 PM 6:15 PM 6:30 PM	17 17 15 16 20 17 20 18 18 20 16 13 8	196 194 164 162 172 179 190 206 189 176 156 130 119	3 2 3 1 3 4 7 8 6 6 2 1 3	41 43 41 43 52 54 47 46 35 24 20 8 11	177 169 168 166 148 140 135 124 107 96 68 56 53	25 27 16 18 17 13 16 15 14 17 16 13 12	8 8 11 12 13 13 13 11 10 9 8 11 11	272 275 256 242 242 236 238 231 223 219 198 189 162	23 27 37 40 41 42 40 34 34 28 20 23 20	3 3 4 8 9 7 5 3 5 6 5 7	114 122 127 134 130 122 104 80 73 65 70 60 43	11 8 10 12 13 13 7 5 6 9 11 9	890 895 852 854 860 842 824 783 717 671 589 520 458	97.9% 98.2% 98.7% 99.1% 99.2% 99.2% 99.3% 99.4% 99.6% 99.8% 100.0% 99.8%	2.1% 1.8% 1.3% 0.9% 0.8% 0.8% 0.7% 0.6% 0.6% 0.2% 0.2% 0.2%	0.88	PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM 6:00 PM 6:15 PM 6:30 PM 6:45 PM	17 17 15 16 20 17 20 18 18 20 16 13 8	196 194 164 162 172 179 190 206 189 176 156 130 119	3 2 3 1 3 4 7 8 6 6 2 1 3 5 6	41 43 41 43 52 54 47 46 35 24 20 8 11	177 169 168 166 148 140 135 124 107 96 68 56 53	25 27 16 18 17 13 16 15 14 17 16 13 12 8	8 8 11 12 13 13 13 11 10 9 8 11 11 11	272 275 256 242 242 236 238 231 223 219 198 189 162 144 125	23 27 37 40 41 42 40 34 34 28 20 23 20 25 23	3 3 4 8 9 7 5 3 5 6 5 7	114 122 127 134 130 122 104 80 73 65 70 60 43	11 8 10 12 13 13 7 5 6 9 11 9	890 895 852 854 860 842 824 783 717 671 589 520 458	97.9% 98.2% 98.7% 99.1% 99.2% 99.2% 99.3% 99.4% 99.6% 99.8% 100.0%	2.1% 1.8% 1.3% 0.9% 0.8% 0.8% 0.7% 0.6% 0.6% 0.2% 0.2% 0.0%	0.88	PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 6:00 PM 6:15 PM 6:30 PM 6:45 PM 7:00 PM	17 17 15 16 20 17 20 18 18 20 16 13 8	196 194 164 162 172 179 190 206 189 176 156 130 119	3 2 3 1 3 4 7 8 6 6 2 1 3 5 6	41 43 41 43 52 54 47 46 35 24 20 8 11	177 169 168 166 148 140 135 124 107 96 68 56 53 48 51	25 27 16 18 17 13 16 15 14 17 16 13 12 8 8	8 8 11 12 13 13 13 11 10 9 8 11 11 13 13	272 275 256 242 242 236 238 231 223 219 198 189 162 144 125 109	23 27 37 40 41 42 40 34 34 28 20 23 20 25 23 17	3 3 4 8 9 7 5 3 5 6 5 7	114 122 127 134 130 122 104 80 73 65 70 60 43 35 28	11 8 10 12 13 13 7 5 6 9 11 9	890 895 852 854 860 842 824 783 717 671 589 520 458 427 397 379	97.9% 98.2% 98.7% 99.1% 99.2% 99.2% 99.3% 99.4% 99.6% 99.8% 100.0% 99.8% 99.5% 99.5%	2.1% 1.8% 1.3% 0.9% 0.8% 0.8% 0.7% 0.6% 0.6% 0.2% 0.2% 0.2% 0.5%	0.88	PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 6:00 PM 6:15 PM 6:30 PM 6:45 PM 7:00 PM 7:15 PM	17 17 15 16 20 17 20 18 18 20 16 13 8	196 194 164 162 172 179 190 206 189 176 156 130 119 115 110	3 2 3 1 3 4 7 8 6 6 2 1 3 5 6	41 43 41 43 52 54 47 46 35 24 20 8 11 11 15 9	177 169 168 166 148 140 135 124 107 96 68 56 53 48 51 50 41	25 27 16 18 17 13 16 15 14 17 16 13 12 8 8	8 8 11 12 13 13 13 11 10 9 8 11 11 13 13 11 10	272 275 256 242 242 236 238 231 223 219 198 189 162 144 125 109 100	23 27 37 40 41 42 40 34 34 28 20 23 20 25 23 17 15	3 3 4 8 9 7 5 3 5 6 5 7	114 122 127 134 130 122 104 80 73 65 70 60 43 35 28 28	11 8 10 12 13 13 7 5 6 9 11 9	890 895 852 854 860 842 824 783 717 671 589 520 458 427 397 379 336	97.9% 98.2% 98.7% 99.1% 99.2% 99.2% 99.3% 99.4% 99.6% 99.8% 100.0% 99.8% 99.5% 99.5% 99.1%	2.1% 1.8% 1.3% 0.9% 0.8% 0.8% 0.7% 0.6% 0.6% 0.2% 0.2% 0.2% 0.5% 0.5% 0.9%	0.88	PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 6:00 PM 6:15 PM 6:30 PM 6:45 PM 7:00 PM 7:15 PM 7:30 PM 7:45 PM 8:00 PM	17 17 15 16 20 17 20 18 18 20 16 13 8 9 10 9	196 194 164 162 172 179 190 206 189 176 156 130 119 115 110 109 102	3 2 3 1 3 4 7 8 6 6 2 1 3 5 6 11 9 7	41 43 41 43 52 54 47 46 35 24 20 8 11 11 15 9	177 169 168 166 148 140 135 124 107 96 68 56 53 48 51 50 41 33 29	25 27 16 18 17 13 16 15 14 17 16 13 12 8 8 7 7 6	8 8 11 12 13 13 13 11 10 9 8 11 11 13 13 11 10 7	272 275 256 242 242 236 238 231 223 219 198 189 162 144 125 109 100 86	23 27 37 40 41 42 40 34 34 28 20 23 20 25 23 17 15 9	3 3 4 8 9 7 5 3 5 6 5 7 8 8 9	114 122 127 134 130 122 104 80 73 65 70 60 43 35 28 28 24 20	11 8 10 12 13 13 7 5 6 9 11 9	890 895 852 854 860 842 824 783 717 671 589 520 458 427 397 379 336 282	97.9% 98.2% 98.7% 99.1% 99.2% 99.2% 99.3% 99.4% 99.6% 99.8% 100.0% 99.8% 99.5% 99.5% 99.1% 98.9%	2.1% 1.8% 1.3% 0.9% 0.8% 0.8% 0.7% 0.6% 0.6% 0.2% 0.2% 0.2% 0.5% 0.5% 0.9% 1.1%	0.88	PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 6:00 PM 6:15 PM 6:30 PM 6:45 PM 7:00 PM 7:15 PM 7:30 PM	17 17 15 16 20 17 20 18 18 20 16 13 8 9 10 9 6	196 194 164 162 172 179 190 206 189 176 156 130 119 115 110 109 102 89 84	3 2 3 1 3 4 7 8 6 6 2 1 3 5 6 11 9 7	41 43 41 43 52 54 47 46 35 24 20 8 11 11 15 9	177 169 168 166 148 140 135 124 107 96 68 56 53 48 51 50 41	25 27 16 18 17 13 16 15 14 17 16 13 12 8 8 7 7 6 7	8 8 11 12 13 13 13 11 10 9 8 11 11 13 13 11 10 7	272 275 256 242 242 236 238 231 223 219 198 189 162 144 125 109 100 86 86	23 27 37 40 41 42 40 34 34 28 20 23 20 25 23 17 15 9	3 3 4 8 9 7 5 3 5 6 5 7 8 8 9 8 7 6	114 122 127 134 130 122 104 80 73 65 70 60 43 35 28 28 24 20 20	11 8 10 12 13 13 7 5 6 9 11 9 7 5 3 2	890 895 852 854 860 842 824 783 717 671 589 520 458 427 397 379 336 282 270	97.9% 98.2% 98.7% 99.1% 99.2% 99.2% 99.3% 99.4% 99.6% 99.8% 100.0% 99.8% 99.5% 99.5% 99.1% 98.9% 99.3%	2.1% 1.8% 1.3% 0.9% 0.8% 0.8% 0.7% 0.6% 0.6% 0.2% 0.2% 0.2% 0.0% 0.5% 0.5% 0.9% 1.1% 0.7%	0.88	PM Peak
3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 6:00 PM 6:15 PM 6:30 PM 6:45 PM 7:00 PM 7:15 PM 7:30 PM 7:45 PM 8:00 PM 8:15 PM	17 17 15 16 20 17 20 18 18 20 16 13 8 9 10 9 6 4	196 194 164 162 172 179 190 206 189 176 156 130 119 115 110 109 102 89 84 71	3 2 3 1 3 4 7 8 6 6 2 1 3 5 6 11 9 7	41 43 41 43 52 54 47 46 35 24 20 8 11 11 15 9 9 7 4	177 169 168 166 148 140 135 124 107 96 68 56 53 48 51 50 41 33 29 23	25 27 16 18 17 13 16 15 14 17 16 13 12 8 8 7 7 6 7 9	8 8 11 12 13 13 13 11 10 9 8 11 11 13 13 11 10 7 7	272 275 256 242 242 236 238 231 223 219 198 189 162 144 125 109 100 86 86 74	23 27 37 40 41 42 40 34 34 28 20 23 20 25 23 17 15 9 9 8	3 4 8 9 7 5 3 5 6 5 7 8 8 9 8 7 6	114 122 127 134 130 122 104 80 73 65 70 60 43 35 28 28 24 20 20 25	11 8 10 12 13 13 7 5 6 9 11 9 7 5 3 2 3	890 895 852 854 860 842 824 783 717 671 589 520 458 427 397 379 336 282 270 240	97.9% 98.2% 98.7% 99.1% 99.2% 99.2% 99.3% 99.4% 99.6% 99.8% 100.0% 99.8% 99.5% 99.5% 99.1% 98.9% 99.3% 99.3%	2.1% 1.8% 1.3% 0.9% 0.8% 0.8% 0.7% 0.6% 0.6% 0.2% 0.2% 0.0% 0.5% 0.5% 0.9% 1.1% 0.7% 0.8%	0.88	PM Peak

9:00 PM	1	42	8	4	20	5	8	63	3	2	17	4	177	100.0%	0.0%	
9:15 PM	0	37	6	4	21	3	7	63	2	0	9	3	155	100.0%	0.0%	
9:30 PM	0	30	2	1	21	2	5	50	1	0	14	1	127	100.0%	0.0%	
9:45 PM	0	26	1	1	19	2	3	40	1	2	12	1	108	100.0%	0.0%	
10:00 PM	0	29	1	2	14	1	2	33	2	2	10	0	96	100.0%	0.0%	
10:15 PM	0	23	2	2	9	1	2	27	2	3	9	0	80	100.0%	0.0%	
10:30 PM	0	24	2	2	5	1	1	22	3	3	4	0	67	100.0%	0.0%	
10:45 PM	0	22	2	2	4	1	1	15	3	1	4	0	55	100.0%	0.0%	
11:00 PM	0	15	2	1	4	2	1	13	1	1	4	0	44	100.0%	0.0%	
11:15 PM	0	8	1	0	3	2	0	6	1	0	2	0				
11:30 PM	0	2	1	0	3	2	0	3	0	0	1	0				
11:45 PM	0	1	1	0	1	2	0	3	0	0	1	0				
Movement Total	188	2284	65	351	1448	245	135	2562	364	70	985	107				Movement Total
PC %	98.9%	99.0%	98.5%	97.7%	98.1%	99.2%	100.0%	98.9%	99.5%	98.6%	98.4%	97.2%				PC %
Heavy Veh %	1.1%	1.0%	1.5%	2.3%	1.9%	0.8%	0.0%	1.1%	0.5%	1.4%	1.6%	2.8%				Heavy Veh %

Augusta Street & Harlem Avenue 12/06/2022 12:00 AM

		arlem Aveni Southbound			ugusta Stre Westbound			arlem Aven Northbound		F	Augusta Stre Eastbound						
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Hourly Total	PC %	Heavy Veh %	Peak Hour Factor	FILTER
12:00 AM	7	124	1	3	3	2	9	167	3	0	2	2	323	97.8%	2.2%		
12:15 AM	4	110	0	2	2	0	6	136	3	0	0	1	264	97.7%	2.3%		
12:30 AM	2	100	0	2	1	2	3	128	3	0	0	0	241	97.9%	2.1%		
12:45 AM	1	94	0	2	2	3	2	126	2	0	0	0	232	98.3%	1.7%		
1:00 AM	1	92	0	1	2	3	1	122	1	0	0	0	223	97.8%	2.2%		
1:15 AM	2	88	0	1	2	3	1	120	0	1	0	0	218	96.8%	3.2%		
1:30 AM	1	101	0	1	2	1	1	110	0	1	0	0	218	94.5%	5.5%		
1:45 AM	1	104	0	0	1	0	2	90	0	1	0	0	199	95.0%	5.0%		
2:00 AM	1	104	1	0	0	0	1	80	1	1	0	0	189	94.2%	5.8%		
2:15 AM	0	104	1	0	0	0	1	69	1	0	0	0	176	93.2%	6.8%		
2:30 AM	0	93	1	0	0	0	1	60	1	0	0	0	156	93.6%	6.4%		
2:45 AM	1	109	1	0	0	0	0	67	1	0	0	0	179	91.6%	8.4%		
3:00 AM	1	128	0	0	1	0	2	80	0	0	0	0	212	93.9%	6.1%		
3:15 AM	2	158	0	1	1	2	2	99	0	0	1	0	266	94.4%	5.6%		
3:30 AM	3	203	0	1	1	3	2	124	1	0	1	0	339	94.7%	5.3%		
3:45 AM	4	245	1	1	4	7	2	173	1	0	1	0	439	95.0%	5.0%		
4:00 AM	6	278	1	1	3	9	0	194	1	0	1	1	495	94.9%	5.1%		
4:15 AM	8	364	3	1	5	9	1	237	1	0	0	1	630	94.6%	5.4%		
4:30 AM	8	460	3	2	8	9	3	292	1	0	0	1	787	95.6%	4.4%		
4:45 AM	6	545	2	2	6	12	4	333	3	1	1	2	917	96.1%	3.9%		
5:00 AM	9	637	3	3	11	11	5	412	5	1	2	2	1101	95.6%	4.4%		
5:15 AM	10	717	1	8	14	11	7	473	6	1	4	4	1256	96.0%	4.0%		
5:30 AM	13	748	1	11	21	11	8	528	8	2	9	7	1367	95.6%	4.4%		
5:45 AM	22	856	1	15	27	6	9	587	10	3	13	7	1556	95.3%	4.7%		
6:00 AM	35	967	0	22	29	10	13	644	22	4	25	8	1779	95.5%	4.5%		
6:15 AM	52	1021	0	29	44	14	14	686	31	7	53	11	1962	95.5%	4.5%		
6:30 AM	66	1083	5	33	55	19	14	717	43	6	77	12	2130	95.7%	4.3%		
6:45 AM	91	1080	10	36	79	25	27	772	55	8	137	13	2333	96.0%	4.0%		
7:00 AM	91	1076	17	43	125	32	40	820	65	10	174	23	2516	95.9%	4.1%		
7:15 AM	91	1104	26	42	163	40	69	893	86	14	169	26	2723	96.4%	3.6%		
7:30 AM	99	1108	31	54	173	48	79	950	82	18	184	34	2860	96.3%	3.7%	0.93	AM Peak
7:45 AM	91	1110	33	66	166	51	79	962	78	16	143	36	2831	96.2%	3.8%		
8:00 AM	88	1109	33	57	145	46	76	973	64	19	111	33	2754	96.3%	3.7%		
8:15 AM	84	1010	28	53	113	35	55	946	46	17	100	30	2517	95.8%	4.2%		
8:30 AM	68	965	23	49	108	24	62	907	50	16	66	25	2363	95.6%	4.4%		
8:45 AM	51	901	20	40	99	15	61	873	48	17	54	24	2203	95.4%	4.6%		
9:00 AM	44	815	18	48	81	13	55	837	48	14	51	19	2043	94.9%	5.1%		
9:00 AM 9:15 AM	37	821	17	4 0 51	76	12	53	823	45	11	42	17	2045	94.5%	5.5%		
3. 13 AIVI	31	021	17	31	10	14	55	020	40		74	17	2000	3 4 .5/0	0.070		

9:30 AM	36	797	18	44	83	17	43	820	37	10	39	14	1958	94.2%	5.8%		Ī
9:45 AM	37	783	19	46	83	23	36	816	39	12	32	17	1943	94.3%	5.7%		
10:00 AM	33	830	17	46	86	19	38	835	37	11	30	19	2001	94.7%	5.3%		
10:15 AM	28	848	16	51	75	23	42	839	40	11	33	24	2030	94.3%	5.7%		
10:30 AM	32	857	17	54	54	22	53	855	40	13	30	27	2054	94.3%	5.7%		
10:45 AM	30	851	17	55	55	21	56	893	44	9	39	27	2097	94.0%	6.0%		
11:00 AM	35	814	16	52	53	30	50	874	46	9	39	28	2046	94.1%	5.9%		
11:15 AM	46	791	17	53	65	27	44	870	47	13	45	25	2043	94.7%	5.3%		
11:30 AM	40	789	15	54	68	27	34	850	54	14	58	24	2027	94.9%	5.1%		
11:45 AM	39	780	14	51	68	31	33	828	51	14	66	25	2000	95.6%	4.5%		
12:00 PM	38	788	16	53	71	29	44	827	58	15	74	30	2043	95.3%	4.7%		
12:15 PM	31	817	18	50	60	30	46	832	55	10	73	35	2057	95.5%	4.5%		
12:30 PM	35	841	19	51	67	31	42	823	53	7	66	36	2071	95.6%	4.4%		
12:45 PM	37	884	19	47	65	35	42	791	50	7	51	34	2062	95.1%	4.9%		
1:00 PM	38	923	21	50	71	34	32	810	42	6	39	28	2094	95.6%	4.4%		
1:15 PM	38	925	21	49	79	33	32	849	47	8	40	21	2142	95.7%	4.3%		
1:30 PM	36	939	18	47	83	35	33	937	50	9	44	23	2254	96.1%	3.9%		
1:45 PM	51	959	16	53	103	38	37	993	65	11	56	31	2413	96.4%	3.6%		
2:00 PM	60	958	11	50	113	37	41	1012	71	11	70	35	2469	96.5%	3.5%		
2:15 PM	67	993	9	48	122	44	53	1008	74	13	106	49	2586	96.6%	3.4%		
2:30 PM	68	1021	13	59	144	50	57	1000	76	15	127	55	2685	96.7%	3.3%		
2:45 PM	54	1031	21	67	154	52	57	1008	80	14	130	57	2725	97.0%	3.0%		
3:00 PM	49	1005	32	70	172	61	65	1016	87	19	150	62	2788	96.8%	3.2%		
3:15 PM	52	1019	32	73	193	66	58	1049	84	20	133	53	2832	96.9%	3.1%		
3:30 PM	63	1038	29	60	181	62	57	1054	86	19	134	47	2830	97.1%	2.9%		
3:45 PM	63	1072	23	58	177	58	51	1066	79	23	152	39	2861	97.2%	2.8%		
4:00 PM	66	1108	16	58	174	54	43	1086	78	17	157	36	2893	97.7%	2.3%	0.98	PM Peak
4:15 PM	72	1067	25	59	177	53	38	1060	81	16	176	38	2862	98.0%	2.0%		
4:30 PM	68	999	23	72	177	61	35	1025	81	16	189	39	2785	98.0%	2.0%		
4:45 PM	85	941	29	71	186	60	40	1006	85	14	200	43	2760	98.3%	1.7%		
5:00 PM	88	909	28	69	167	57	36	955	82	16	192	40	2639	98.3%	1.7%		
5:15 PM	85	909	17	66	144	49	37	962	87	14	161	39	2570	98.4%	1.6%		
5:30 PM	77	932	16	56	130	39	36	967	85	12	143	39	2532	98.6%	1.4%		
5:45 PM	61	993	8	45	94	30	37	942	71	9	114	30	2434	98.2%	1.8%		
6:00 PM	58	1002	6	36	73	26	45	963	61	6	89	25	2390	98.3%	1.7%		
6:15 PM	49	960	12	29	62	27	43	916	54	4	78	25	2259	98.2%	1.8%		
6:30 PM	49	888	12	22	52	28	43	866	50	3	58	20	2091	98.1%	1.9%		
6:45 PM	44	760	12	23	45	25	41	837	46	5	45	24	1907	98.2%	1.8%		
7:00 PM	38	684	14	26	42	25	32	766	54	5	40	23	1749	98.1%	1.9%		
7:15 PM	31	644	8	23	28	21	33	746	42	4	36	16	1632	98.3%	1.7%		
7:30 PM	27	617	9	20	28	10	28	711	34	4	32	12	1532	98.4%	1.6%		
7:45 PM	29	615	7	16	26	8	23	694	35	3	29	10	1495	98.7%	1.3%		
8:00 PM	23	613	4	16	29	7	21	656	27	6	24	17	1443	98.3%	1.7%		
8:15 PM	23 19	584	5	23	31	9	19	620	30	6	22	21	1389	98.2%	1.7 %		
8:30 PM	16	587	3	23 24	21	13	20	621	31	5	22	20	1383	98.2%	1.8%		
8:45 PM	11	553	3	28	22	15	21	598	26	3	17	22	1319	98.0%	2.0%		
0.40 FIVI	11	555	3	20	22	10	۷ ا	290	20	3	17	22	1313	90.070	2.070		

9:00 PM	14	509	3	22	16	14	22	561	22	0	14	16	1213	98.1%	1.9%	
9:15 PM	15	496	1	15	10	15	18	525	19	0	12	11	1137	98.0%	2.0%	
9:30 PM	16	468	3	11	11	13	22	507	19	0	7	16	1093	98.1%	1.9%	
9:45 PM	16	419	3	4	6	14	16	461	22	0	7	11	979	98.2%	1.8%	
10:00 PM	10	395	2	4	6	14	16	451	20	0	7	8	933	98.3%	1.7%	
10:15 PM	11	351	2	3	8	8	17	407	18	0	7	9	841	98.2%	1.8%	
10:30 PM	9	285	0	5	6	6	14	364	14	0	5	4	712	98.2%	1.8%	
10:45 PM	10	253	0	6	6	2	17	343	9	0	4	4	654	98.0%	2.0%	
11:00 PM	11	207	0	4	4	2	14	314	10	0	2	3	571	97.4%	2.6%	
11:15 PM	7	137	0	3	2	2	9	232	7	0	0	1				
11:30 PM	6	83	0	1	1	2	5	139	5	0	0	1				
11:45 PM	2	39	0	0	1	2	1	61	3	0	0	0	Ì			
Movement Total	844	16075	260	734	1477	535	701	15455	905	170	1293	458				Movement Total
PC %	97.7%	96.2%	92.7%	96.3%	98.6%	98.5%	98.7%	96.3%	97.2%	95.9%	98.5%	98.7%			_	PC %
Heavy Veh %	2.3%	3.8%	7.3%	3.7%	1.4%	1.5%	1.3%	3.7%	2.8%	4.1%	1.5%	1.3%				Heavy Veh %

Division Street & Thatcher Avenue 12/08/2022 12:00 AM

		atcher Aver			vivision Stre Westbound			atcher Aver			0						
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	0	0	0	Hourly Total	PC %	Heavy Veh %	Peak Hour Factor	FILTER
12:00 AM	6	14	0	4	0	2	0	14	1	0	0	0	41	100.0%	0.0%		
12:15 AM	3	13	0	4	0	1	0	9	1	0	0	0	31	100.0%	0.0%		
12:30 AM	4	10	0	1	0	1	0	8	0	0	0	0	24	100.0%	0.0%		
12:45 AM	2	8	0	2	0	1	0	6	1	0	0	0	20	100.0%	0.0%		
1:00 AM	2	9	0	2	0	1	0	7	2	0	0	0	23	100.0%	0.0%		
1:15 AM	2	8	0	1	0	2	0	7	2	0	0	0	22	100.0%	0.0%		
1:30 AM	1	9	0	1	0	2	0	7	2	0	0	0	22	95.5%	4.5%		
1:45 AM	1	9	0	1	0	2	0	8	2	0	0	0	23	95.7%	4.3%		
2:00 AM	0	8	0	2	0	2	0	6	1	0	0	0	19	94.7%	5.3%		
2:15 AM	0	10	0	2	0	1	0	5	2	0	0	0	20	95.0%	5.0%		
2:30 AM	1	11	0	2	0	2	0	5	2	0	0	0	23	100.0%	0.0%		
2:45 AM	1	12	0	1	0	4	0	5	1	0	0	0	24	100.0%	0.0%		
3:00 AM	1	13	0	0	0	9	0	6	1	0	0	0	30	100.0%	0.0%		
3:15 AM	1	14	0	0	0	12	0	6	0	0	0	0	33	100.0%	0.0%		
3:30 AM	0	15	0	0	0	14	0	8	1	0	0	0	38	100.0%	0.0%		
3:45 AM	2	16	0	1	0	13	0	9	1	0	0	0	42	100.0%	0.0%		
4:00 AM	3	18	0	2	0	10	0	8	1	0	0	0	42	100.0%	0.0%		
4:15 AM	5	18	0	3	0	10	0	15	2	0	0	0	53	100.0%	0.0%		
4:30 AM	7	24	0	5	0	10	0	19	1	0	0	0	66	100.0%	0.0%		
4:45 AM	5	35	0	6	0	18	0	28	3	0	0	0	95	100.0%	0.0%		
5:00 AM	8	43	0	6	0	23	0	41	4	0	0	0	125	98.4%	1.6%		
5:15 AM	11	53	0	8	0	29	0	50	5	0	0	0	156	98.7%	1.3%		
5:30 AM	19	77	0	8	0	36	0	67	6	0	0	0	213	98.1%	1.9%		
5:45 AM	28	96	0	8	0	40	0	81	7	0	0	0	260	98.1%	1.9%		
6:00 AM	55	157	0	11	0	53	0	108	10	0	0	0	394	98.7%	1.3%		
6:15 AM	70	205	0	11	0	69	0	131	26	0	0	0	512	99.0%	1.0%		
6:30 AM	96	256	0	19	0	79	0	171	38	0	0	0	659	99.4%	0.6%		
6:45 AM	125	310	0	35	0	94	0	222	61	0	0	0	847	99.4%	0.6%		
7:00 AM	136	349	0	46	0	104	0	261	101	0	0	0	997	99.7%	0.3%		
7:15 AM	146	367	0	55	0	108	0	304	106	0	0	0	1086	99.4%	0.6%		
7:30 AM	140	376	0	60	0	115	0	316	106	0	0	0	1113	99.1%	0.9%	0.86	AM Peak
7:45 AM	129	355	0	53	0	114	0	288	98	0	0	0	1037	99.0%	1.0%		
8:00 AM	114	302	0	44	0	107	0	271	65	0	0	0	903	98.6%	1.4%		
8:15 AM	109	263	0	37	0	96	0	231	58	0	0	0	794	97.7%	2.3%		
8:30 AM	97	208	0	27	0	85	0	203	55	0	0	0	675	97.5%	2.5%		
8:45 AM	92	200	0	23	0	87	0	207	50	0	0	0	659	96.8%	3.2%		
9:00 AM	78	178	0	28	0	101	0	192	50	0	0	0	627	96.7%	3.3%		
9:15 AM	68	175	0	30	0	108	0	188	42	0	0	0	611	97.4%	2.6%		

9:30 AM	65	200	0	29	0	112	0	188	39	0	0	0	633	97.8%	2.2%		
9:45 AM	52	176	0	27	0	99	0	177	29	0	0	0	560	98.4%	1.6%		
10:00 AM	55	190	0	21	0	87	0	171	23	0	0	0	547	98.7%	1.3%		
10:15 AM	68	180	0	20	0	95	0	174	22	0	0	0	559	98.7%	1.3%		
10:30 AM	77	164	0	35	0	102	0	170	20	0	0	0	568	98.9%	1.1%		
10:45 AM	85	181	0	41	0	106	0	172	23	0	0	0	608	99.0%	1.0%		
11:00 AM	97	169	0	44	0	103	0	185	26	0	0	0	624	98.6%	1.4%		
11:15 AM	91	199	0	49	0	96	0	197	27	0	0	0	659	98.8%	1.2%		
11:30 AM	87	203	0	39	0	89	0	205	27	0	0	0	650	98.5%	1.5%		
11:45 AM	93	204	0	36	0	90	0	229	25	0	0	0	677	97.8%	2.2%		
12:00 PM	90	232	0	36	0	102	0	226	27	0	0	0	713	98.3%	1.7%		
12:15 PM	99	229	0	33	0	108	0	211	26	0	0	0	706	98.4%	1.6%		
12:30 PM	94	242	0	34	0	120	0	206	26	0	0	0	722	98.3%	1.7%		
12:45 PM	98	266	0	41	0	126	0	173	34	0	0	0	738	99.1%	0.9%		
1:00 PM	100	252	0	41	0	112	0	182	32	0	0	0	719	99.0%	1.0%		
1:15 PM	97	260	0	46	0	111	0	190	31	0	0	0	735	98.9%	1.1%		
1:30 PM	121	281	0	50	0	102	0	200	39	0	0	0	793	99.2%	0.8%		
1:45 PM	132	304	0	48	0	107	0	222	45	0	0	0	858	99.4%	0.6%		
2:00 PM	147	361	0	58	0	111	0	236	63	0	0	0	976	99.4%	0.6%		
2:15 PM	151	406	0	57	0	111	0	260	81	0	0	0	1066	99.3%	0.7%		
2:30 PM	163	447	0	70	0	130	0	279	81	0	0	0	1170	99.1%	0.9%		
2:45 PM	175	457	0	73	0	137	0	300	89	0	0	0	1231	98.9%	1.1%		
3:00 PM	184	467	0	70	0	155	0	301	88	0	0	0	1265	98.5%	1.5%		
3:15 PM	216	490	0	73	0	162	0	343	77	0	0	0	1361	98.5%	1.5%		
3:30 PM	223	506	0	60	0	166	0	355	95	0	0	0	1405	98.2%	1.8%		
3:45 PM	242	526	0	63	0	171	0	359	93	0	0	0	1454	98.3%	1.7%		
4:00 PM	240	516	0	68	0	183	0	368	94	0	0	0	1469	98.8%	1.2%	0.96	PM Peak
4:15 PM	229	505	0	67	0	180	0	340	107	0	0	0	1428	98.9%	1.1%		
4:30 PM	230	472	0	69	0	170	0	347	100	0	0	0	1388	99.2%	0.8%		
4:45 PM	224	440	0	65	0	174	0	347	100	0	0	0	1350	99.0%	1.0%		
5:00 PM	220	447	0	55	0	168	0	331	123	0	0	0	1344	99.0%	1.0%		
5:15 PM	236	428	0	63	0	179	0	293	129	0	0	0	1328	98.9%	1.1%		
5:30 PM	226	393	0	55	0	174	0	263	127	0	0	0	1238	99.2%	0.8%		
5:45 PM	208	373	0	47	0	147	0	227	114	0	0	0	1116	99.5%	0.5%		
6:00 PM	196	303	0	44	0	119	0	195	89	0	0	0	946	99.5%	0.5%		
6:15 PM	145	240	0	27	0	91	0	186	83	0	0	0	772	99.7%	0.3%		
6:30 PM	123	219	0	23	0	69	0	143	74	0	0	0	651	99.5%	0.5%		
6:45 PM	98	175	0	28	0	67	0	117	73	0	0	0	558	99.5%	0.5%		
7:00 PM	82	167	0	31	0	6 <mark>5</mark>	0	107	54	0	0	0	506	99.6%	0.4%		
7:15 PM	76	165	0	36	0	58	0	93	31	0	0	0	459	99.6%	0.4%		
7:30 PM	67	144	0	40	0	61	0	92	25	0	0	0	429	100.0%	0.0%		
7:45 PM	62	135	0	34	0	53	0	90	16	0	0	0	390	100.0%	0.0%		
8:00 PM	59	111	0	30	0	46	0	77	15	0	0	0	338	100.0%	0.0%		
8:15 PM	60	101	0	31	0	48	0	78	20	0	0	0	338	100.0%	0.0%		
8:30 PM	52	97	0	27	0	49	0	71	17	0	0	0	313	100.0%	0.0%		
8:45 PM	53	91	0	23	0	56	0	64	20	0	0	0	307	100.0%	0.0%		

Heavy Veh %	0.4%	1.4%		1.2%		0.9%		1.1%	1.1%							Heavy Veh %
PC %	99.6%	98.6%	•	98.8%	•	99.1%	•	98.9%	98.9%						•	PC %
Movement Total	1969	4483	0	678	0	1743	0	3421	903	0	0	0				Movement Total
11:45 PM	6	6	0	1	0	1	0	6	1	0	0	0				
11:30 PM	6	13	0	3	0	4	0	10	3	0	0	0				
11:15 PM	13	15	0	5	0	7	0	20	4	0	0	0				
11:00 PM	15	27	0	6	0	10	0	27	6	0	0	0	91	100.0%	0.0%	
10:45 PM	11	32	0	10	0	12	0	28	5	0	0	0	98	100.0%	0.0%	
10:30 PM	20	38	0	10	0	12	0	31	4	0	0	0	115	100.0%	0.0%	
10:15 PM	25	54	0	11	0	13	0	37	7	0	0	0	147	100.0%	0.0%	
10:00 PM	30	54	0	11	0	18	0	44	9	0	0	0	166	99.4%	0.6%	
9:45 PM	40	64	0	7	0	22	0	43	11	0	0	0	187	99.5%	0.5%	
9:30 PM	47	69	0	7	0	37	0	48	14	0	0	0	222	99.5%	0.5%	
9:15 PM	45	80	0	8	0	47	0	46	14	0	0	0	240	99.6%	0.4%	
9:00 PM	51	96	0	18	0	52	0	57	18	0	0	0	292	100.0%	0.0%	

Division Street & Lathrop Avenue 12/06/2022 12:00 AM

		throp Aven			ivision Stre			athrop Aven		[Division Stre Eastbound						
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Hourly Total	PC %	Heavy Veh %	Peak Hour Factor	FILTER
12:00 AM	0	4	0	0	3	2	1	3	0	1	5	1	20	100.0%	0.0%		
12:15 AM	0	4	0	0	3	2	1	2	0	1	9	1	23	100.0%	0.0%		
12:30 AM	0	5	0	0	3	1	0	2	0	1	10	1	23	100.0%	0.0%		
12:45 AM	0	3	0	0	5	0	0	2	0	1	10	1	22	100.0%	0.0%		
1:00 AM	0	2	0	0	4	0	0	3	0	0	10	0	19	100.0%	0.0%		
1:15 AM	0	2	0	0	4	0	0	3	0	0	4	0	13	100.0%	0.0%		
1:30 AM	0	0	0	0	4	0	0	1	0	0	1	0	6	100.0%	0.0%		
1:45 AM	0	0	0	0	1	0	0	2	0	0	1	0	4	100.0%	0.0%		
2:00 AM	0	0	0	0	0	0	0	1	0	0	1	0	2	100.0%	0.0%		
2:15 AM	0	0	0	0	0	0	0	1	0	0	1	0	2	100.0%	0.0%		
2:30 AM	0	1	0	0	1	0	0	1	0	0	1	0	4	100.0%	0.0%		
2:45 AM	0	1	0	0	2	0	0	3	0	0	2	0	8	100.0%	0.0%		
3:00 AM	0	1	0	0	4	0	0	5	0	0	2	0	12	100.0%	0.0%		
3:15 AM	0	1	0	0	6	1	0	5	0	0	2	0	15	100.0%	0.0%		
3:30 AM	0	0	0	0	7	2	0	6	0	0	3	0	18	100.0%	0.0%		
3:45 AM	1	0	0	0	10	2	0	4	0	1	3	0	21	100.0%	0.0%		
4:00 AM	1	1	0	0	10	3	1	3	0	1	4	0	24	100.0%	0.0%		
4:15 AM	1	3	0	0	13	2	1	5	0	1	9	0	35	100.0%	0.0%		
4:30 AM	1	4	0	0	15	2	1	6	1	1	8	0	39	100.0%	0.0%		
4:45 AM	1	9	0	0	19	2	3	8	1	0	12	0	55	98.2%	1.8%		
5:00 AM	1	13	1	1	27	1	2	9	1	0	16	0	72	98.6%	1.4%		
5:15 AM	3	19	1	1	36	3	3	12	1	0	16	1	96	97.9%	2.1%		
5:30 AM	3	25	1	4	49	2	4	14	1	1	24	6	134	97.0%	3.0%		
5:45 AM	2	34	1	4	59	2	3	19	2	2	35	7	170	97.1%	2.9%		
6:00 AM	4	49	0	6	77	5	5	29	7	3	54	9	248	98.0%	2.0%		
6:15 AM	6	65	1	10	91	7	7	42	8	4	79	8	328	97.0%	3.0%		
6:30 AM	13	93	1	11	107	9	6	53	14	4	98	5	414	97.3%	2.7%		
6:45 AM	20	126	4	17	126	13	11	75	24	4	140	6	566	97.0%	3.0%		
7:00 AM	27	155	7	17	148	20	15	97	33	6	170	7	702	97.0%	3.0%		
7:15 AM	26	172	8	17	186	27	17	122	40	9	208	13	845	97.5%	2.5%		
7:30 AM	22	178	11	21	232	35	24	160	41	24	260	22	1030	97.7%	2.3%		
7:45 AM	22	167	14	19	239	39	21	171	41	24	258	23	1038	98.1%	1.9%	0.81	AM Peak
8:00 AM	20	158	14	27	234	41	22	168	38	24	240	26	1012	97.9%	2.1%		
8:15 AM	23	135	15	32	206	41	23	146	41	21	215	23	921	97.7%	2.3%		
8:30 AM	28	124	14	35	167	49	18	127	39	8	161	13	783	97.6%	2.4%		
8:45 AM	23	113	10	38	166	46	23	109	35	13	140	13	729	96.8%	3.2%		
9:00 AM	18	106	11	35	172	34	21	90	28	12	142	8	677	96.8%	3.2%		
9:15 AM	17	111	10	28	167	25	17	93	20	12	124	7	631	97.1%	2.9%		

9:30 AM	10	98	10	23	152	10	18	82	19	10	118	11	561	96.4%	3.6%		
9:45 AM	9	88	11	19	139	7	12	83	15	7	103	10	503	97.0%	3.0%		
10:00 AM	10	75	8	16	129	11	7	101	12	7	88	11	475	97.3%	2.7%		
10:15 AM	9	78	7	18	125	14	10	113	13	10	94	12	503	97.4%	2.6%		
10:30 AM	14	85	7	18	159	17	13	111	13	12	126	11	586	98.1%	1.9%		
10:45 AM	16	96	7	22	164	22	15	124	15	10	140	10	641	98.6%	1.4%		
11:00 AM	15	107	10	20	156	25	17	118	19	11	145	11	654	98.6%	1.4%		
11:15 AM	16	113	9	18	158	25	16	124	17	13	151	9	669	98.8%	1.2%		
11:30 AM	13	113	9	15	129	24	14	133	19	16	133	8	626	99.2%	0.8%		
11:45 AM	13	121	11	12	133	21	14	130	19	21	141	12	648	98.9%	1.1%		
12:00 PM	18	124	8	12	154	18	19	140	18	22	148	14	695	98.8%	1.2%		
12:15 PM	15	118	11	16	162	16	22	127	22	17	162	14	702	98.4%	1.6%		
12:30 PM	12	129	11	17	169	18	20	121	20	15	155	14	701	98.0%	2.0%		
12:45 PM	10	122	6	14	166	18	25	127	23	13	138	12	674	97.8%	2.2%		
1:00 PM	5	114	10	15	142	19	20	125	24	13	134	9	630	97.1%	2.9%		
1:15 PM	4	120	10	13	141	19	18	127	22	14	118	12	618	96.9%	3.1%		
1:30 PM	7	111	9	16	140	19	19	132	22	14	158	13	660	97.4%	2.6%		
1:45 PM	9	123	10	26	156	18	14	145	18	13	194	15	741	97.4%	2.6%		
	9		8	35													
2:00 PM		128			156	24	18	157	20	9	218	16	798	98.1%	1.9%		
2:15 PM	14	132	11	38	171	35	23	174	24	10	240	17	889	98.5%	1.5%		
2:30 PM	20	155	13	53	204	41	25	185	30	11	259	23	1019	98.2%	1.8%		
2:45 PM	20	153	19	49	204	46	28	183	34	11	266	21	1034	98.3%	1.7%		
3:00 PM	19	156	17	46	228	45	26	194	41	16	290	28	1106	98.4%	1.6%		
3:15 PM	25	164	11	50	224	38	19	196	45	14	322	27	1135	98.3%	1.7%		
3:30 PM	21	150	9	33	216	29	21	197	46	14	319	26	1081	98.4%	1.6%		
3:45 PM	25	153	3	32	215	27	19	201	52	16	327	31	1101	98.7%	1.3%		
4:00 PM	32	159	5	38	217	30	22	204	49	14	353	27	1150	98.7%	1.3%		
4:15 PM	25	146	8	39	224	36	26	212	45	20	340	28	1149	98.8%	1.2%		
4:30 PM	28	143	10	44	228	42	25	225	44	17	342	24	1172	99.0%	1.0%	0.90	PM Peak
4:45 PM	27	128	14	44	227	52	22	216	37	16	362	20	1165	99.1%	0.9%		
5:00 PM	21	113	12	33	216	49	18	194	38	15	332	21	1062	99.1%	0.9%		
5:15 PM	19	113	11	28	196	46	17	179	36	13	323	19	1000	99.2%	0.8%		
5:30 PM	17	112	8	25	175	44	16	166	35	15	291	20	924	99.5%	0.5%		
5:45 PM	13	122	4	30	163	30	20	152	36	12	245	20	847	99.4%	0.6%		
6:00 PM	15	123	5	30	145	22	19	140	31	10	216	16	772	99.4%	0.6%		
6:15 PM	17	108	4	26	136	20	16	123	27	5	180	14	676	99.0%	1.0%		
6:30 PM	11	91	5	19	109	16	16	101	22	2	162	11	565	98.6%	1.4%		
6:45 PM	10	71	5	8	92	16	12	90	17	4	130	11	466	98.5%	1.5%		
7:00 PM	9	61	3	5	80	17	11	88	18	5	99	9	405	99.0%	1.0%		
7:15 PM	7	53	6	8	73	11	10	81	17	5	87	9	367	99.2%	0.8%		
7:30 PM	11	49	5	8	75	9	6	82	18	5	73	7	348	99.1%	0.9%		
7:45 PM	14	47	5	9	67	8	6	76	18	3	82	5	340	98.8%	1.2%		
8:00 PM	15	39	6	10	70	8	7	66	15	3	91	5	335	98.5%	1.5%		
8:15 PM	13	39	2	10	61	7	6	60	15	3	87	4	307	98.7%	1.3%		
8:30 PM	10	38	3	10	56	7	7	46	9	4	83	4	277	98.6%	1.4%		
8:45 PM	7	30	4	9	55	6	7	39	7	3	80	3	250	98.8%	1.2%		
J. 10 1 WI	,	50	т	3	00	J	,	33	,	3	50	5	230	00.070	1.2/0		

9:00 PM	3	23	3	10	46	3	6	39	5	2	72	5	217	99.1%	0.9%	
9:15 PM	4	17	4	4	41	3	6	28	5	2	67	7	188	98.9%	1.1%	
9:30 PM	3	9	4	5	32	1	6	28	7	0	58	6	159	98.7%	1.3%	
9:45 PM	3	8	2	5	23	1	5	27	6	1	49	5	135	98.5%	1.5%	
10:00 PM	3	8	2	1	17	2	4	20	3	1	35	4	100	98.0%	2.0%	
10:15 PM	2	7	1	2	15	1	3	23	2	1	30	3	90	98.9%	1.1%	
10:30 PM	2	7	0	1	13	1	2	19	1	1	25	3	75	100.0%	0.0%	
10:45 PM	1	4	0	1	10	1	1	15	3	0	12	3	51	100.0%	0.0%	
11:00 PM	1	3	1	1	13	1	1	13	3	0	13	1	51	100.0%	0.0%	
11:15 PM	0	2	1	0	9	1	1	8	3	0	8	0				
11:30 PM	0	1	1	0	6	1	0	6	2	0	5	0				
11:45 PM	0	0	1	0	6	1	0	3	0	0	3	0				
Movement Total	246	1722	131	358	2448	380	262	2007	403	175	2878	228				Movement Total
PC %	97.6%	98.1%	96.9%	98.9%	98.4%	98.7%	94.3%	98.9%	97.8%	98.9%	98.3%	97.8%				PC %
Heavy Veh %	2.4%	1.9%	3.1%	1.1%	1.6%	1.3%	5.7%	1.1%	2.2%	1.1%	1.7%	2.2%				Heavy Veh %

Division Street & Harlem Avenue 12/08/2022 12:00 AM

		arlem Aveni			ivision Stre			arlem Aven]	Division Stre						
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Hourly Total	PC %	Heavy Veh %	Peak Hour Factor	FILTER
12:00 AM	5	168	3	3	1	2	6	196	9	2	3	11	409	96.6%	3.4%		
12:15 AM	3	141	2	2	2	3	4	167	7	2	2	4	339	96.8%	3.2%		
12:30 AM	2	98	3	3	2	3	2	150	5	2	2	6	278	97.5%	2.5%		
12:45 AM	1	91	3	3	3	2	3	140	3	1	2	3	255	98.0%	2.0%		
1:00 AM	0	85	2	1	3	3	2	139	4	1	2	3	245	98.0%	2.0%		
1:15 AM	0	81	3	1	2	2	1	120	3	1	2	4	220	97.7%	2.3%		
1:30 AM	0	98	1	1	3	3	1	118	2	0	2	1	230	96.5%	3.5%		
1:45 AM	1	98	1	1	2	3	0	103	3	0	2	2	216	96.3%	3.7%		
2:00 AM	1	95	1	1	2	2	1	82	1	0	2	2	190	96.8%	3.2%		
2:15 AM	1	106	0	1	2	2	1	76	1	0	3	1	194	95.4%	4.6%		
2:30 AM	3	97	0	0	3	0	1	69	1	0	3	2	179	94.4%	5.6%		
2:45 AM	2	115	0	1	3	0	2	82	0	1	2	1	209	92.3%	7.7%		
3:00 AM	3	137	0	1	4	0	2	85	1	2	1	2	238	91.2%	8.8%		
3:15 AM	3	174	0	1	6	1	4	99	2	2	0	2	294	91.8%	8.2%		
3:30 AM	1	223	1	5	6	1	5	105	3	2	0	2	354	91.2%	8.8%		
3:45 AM	2	255	1	5	7	2	5	141	5	1	1	3	428	92.5%	7.5%		
4:00 AM	2	286	1	8	9	3	5	190	6	0	1	2	513	93.6%	6.4%		
4:15 AM	4	330	2	15	12	3	3	233	5	1	3	2	613	93.5%	6.5%		
4:30 AM	4	413	6	14	16	9	2	299	6	1	4	1	775	94.7%	5.3%		
4:45 AM	3	489	8	17	24	16	2	332	5	5	5	3	909	95.4%	4.6%		
5:00 AM	4	586	9	21	25	19	3	381	4	6	8	8	1074	95.4%	4.6%		
5:15 AM	6	647	9	22	30	24	9	431	8	6	10	13	1215	95.9%	4.1%		
5:30 AM	12	737	7	33	33	20	18	498	12	11	12	17	1410	95.7%	4.3%		
5:45 AM	15	770	7	40	40	17	23	542	16	12	16	20	1518	95.1%	4.9%		
6:00 AM	21	851	7	46	66	21	30	592	21	16	45	16	1732	94.8%	5.2%		
6:15 AM	31	975	10	54	83	18	34	660	25	23	74	18	2005	94.5%	5.5%		
6:30 AM	43	989	16	66	110	23	38	673	37	24	118	22	2159	95.1%	4.9%		
6:45 AM	58	1085	24	87	155	23	57	717	49	28	150	30	2463	95.7%	4.3%		
7:00 AM	70	1088	37	104	202	20	102	783	60	36	170	48	2720	96.1%	3.9%		
7:15 AM	70	1020	52	125	245	23	137	801	75	38	171	50	2807	96.7%	3.3%		
7:30 AM	70	1003	57	128	257	24	155	838	74	54	163	61	2884	96.3%	3.7%	0.91	AM Peak
7:45 AM	70	979	58	123	234	31	153	845	74	55	160	58	2840	96.2%	3.8%		
8:00 AM	59	932	54	125	205	40	124	821	75	52	131	53	2671	96.3%	3.7%		
8:15 AM	49	889	45	112	165	38	95	780	67	51	122	53	2466	95.9%	4.1%		
8:30 AM	45	858	51	106	150	39	74	730	68	47	113	43	2324	96.0%	4.0%		
8:45 AM	33	819	54	100	145	34	69	725	62	43	99	41	2224	95.8%	4.2%		
9:00 AM	33	815	55	80	124	23	71	736	52	39	91	38	2157	94.9%	5.1%		
9:15 AM	35	814	52	81	125	28	78	751	43	37	85	37	2166	95.2%	4.8%		

9:30 AM	37	797	39	77	116	27	82	765	37	25	73	33	2108	95.2%	4.8%	
9:45 AM	41	774	33	80	106	25	75	782	34	28	69	31	2078	94.9%	5.1%	
10:00 AM	43	769	24	91	102	29	62	773	42	31	68	26	2060	95.6%	4.4%	
10:15 AM	42	722	26	87	103	30	54	812	54	43	75	37	2085	95.5%	4.5%	
10:30 AM	40	721	45	90	107	27	60	808	56	52	78	47	2131	95.8%	4.2%	
10:45 AM	43	711	43	97	114	30	66	789	62	56	89	52	2152	96.1%	3.9%	
11:00 AM	45	715	51	99	110	29	67	803	58	57	86	64	2184	95.9%	4.1%	
11:15 AM	51	759	50	110	102	29	66	787	48	56	81	55	2194	96.0%	4.0%	
11:30 AM	48	778	37	109	89	31	53	840	50	56	80	53	2224	96.0%	4.0%	
11:45 AM	39	790	38	105	80	33	48	848	55	56	74	57	2223	95.7%	4.3%	
12:00 PM	39	776	35	102	89	36	56	869	57	54	88	53	2254	96.0%	4.0%	
12:15 PM	41	784	32	106	103	37	55	876	63	52	97	56	2302	95.7%	4.3%	
12:30 PM	40	777	25	112	114	47	62	883	61	46	99	57	2323	95.6%	4.4%	
12:45 PM	47	768	25	112	130	47	61	896	61	43	102	52	2344	96.1%	3.9%	
1:00 PM	51	776	23	111	126	47	55	852	62	42	95	47	2287	96.0%	4.0%	
1:15 PM	48	766	27	98	114	42	61	844	57	42	96	60	2255	96.4%	3.6%	
1:30 PM	52	798	27	96	117	40	57	829	60	48	114	62	2300	96.7%	3.3%	
1:45 PM	52	868	27	98	110	37	61	855	64	52	123	71	2418	96.7%	3.3%	
2:00 PM	52	893	31	97	118	36	67	916	67	56	144	82	2559	97.0%	3.0%	
2:15 PM	57	936	28	104	139	42	76	946	80	53	140	74	2675	97.0%	3.0%	
2:30 PM	61	888	28	107	173	40	108	937	83	68	164	90	2747	97.2%	2.8%	
2:45 PM	65	826	25	109	195	61	112	976	77	72	202	84	2804	97.5%	2.5%	
3:00 PM	62	804	17	116	210	70	108	975	77	78	233	80	2830	97.3%	2.7%	
3:15 PM	66	800	18	116	224	86	98	984	73	80	274	79	2898	97.7%	2.3%	
3:30 PM	77	838	19	120	208	103	79	1035	76	67	288	55	2965	97.8%	2.2%	
3:45 PM	88	831	21	120	216	93	88	977	73	71	297	64	2939	97.9%	2.1%	
4:00 PM	96	859	24	124	219	98	83	971	70	78	319	70	3011	98.4%	1.6%	
4:15 PM	104	868	22	124	222	92	87	986	75	72	319	67	3038	98.4%	1.6%	
4:30 PM	100	870	25	124	235	92	83	959	75	73	309	74	3019	98.4%	1.6%	
4:45 PM	93	881	24	119	215	103	79	1008	79	67	301	72	3041	98.6%	1.4%	0.97 PM Peak
5:00 PM	102	867	29	115	205	104	80	976	84	56	291	67	2976	98.4%	1.6%	
5:15 PM	96	832	29	124	179	99	82	939	75	63	302	71	2891	98.5%	1.5%	
5:30 PM	91	797	23	113	147	82	84	942	81	53	284	70	2767	98.4%	1.6%	
5:45 PM	91	796	22	110	131	68	80	880	87	46	257	59	2627	98.3%	1.7%	
6:00 PM	78	754	21	109	123	55	77	890	81	39	225	49	2501	98.2%	1.8%	
6:15 PM	67	724	21	82	100	54	72	845	78	32	176	47	2298	98.2%	1.8%	
6:30 PM	62	691	29	78	96	50	69	806	66	29	150	40	2166	98.2%	1.8%	
6:45 PM	51	667	33	73	97	42	61	768	51	33	127	49	2052	98.4%	1.6%	
7:00 PM	38	669	32	54	74	36	66	729	52	32	100	50	1932	98.6%	1.4%	
7:15 PM	37	659	34	56	77	21	57	717	49	32	89	63	1891	98.4%	1.6%	
7:30 PM	28	629	23	43	63	21	52	691	39	34	82	63	1768	98.4%	1.6%	
7:45 PM	31	580	18	35	49	18	47	714	47	26	74	55	1694	98.4%	1.6%	
8:00 PM	32	548	16	34	55	18	48	680	41	25	64	55	1616	98.5%	1.5%	
8:15 PM	28	513	10	27	46	22	42	644	40	19	55	36	1482	98.9%	1.1%	
8:30 PM	32	546	15	33	43	19	36	604	44	17	51	37	1477	98.9%	1.1%	
8:45 PM	29	540	13	28	39	17	33	562	35	18	46	32	1392	99.0%	1.0%	
5. TO 1 IVI	20	0-0	10	20	00	"	00	002	00	10	40	02	1002	33.070	1.070	

9:00 PM	26	486	9	30	36	17	22	546	39	17	41	26	1295	98.9%	1.1%	
9:15 PM	23	469	10	28	33	14	23	555	36	17	41	23	1272	98.9%	1.1%	
9:30 PM	19	413	4	18	28	10	21	521	31	15	33	23	1136	98.8%	1.2%	
9:45 PM	16	384	5	17	21	9	24	494	25	10	27	23	1055	98.7%	1.3%	
10:00 PM	14	361	6	12	12	7	27	444	18	8	24	23	956	98.3%	1.7%	
10:15 PM	13	347	7	10	7	5	28	397	21	7	15	20	877	98.4%	1.6%	
10:30 PM	10	311	7	12	7	7	27	379	20	6	16	18	820	98.5%	1.5%	
10:45 PM	5	284	5	9	7	6	22	327	23	8	15	12	723	98.3%	1.7%	
11:00 PM	5	268	3	7	5	6	13	306	19	7	13	10	662	98.5%	1.5%	
11:15 PM	4	184	0	4	4	6	7	216	12	5	12	6				
11:30 PM	1	114	0	2	2	2	3	135	7	3	6	0				
11:45 PM	1	52	0	1	1	2	1	72	2	0	3	0				
Movement Total	881	14588	490	1491	2125	721	1177	14735	1000	734	2245	885				Movement Total
PC %	99.0%	96.3%	98.2%	98.9%	98.9%	98.5%	98.1%	96.2%	98.3%	96.5%	99.0%	98.0%				PC %
Heavy Veh %	1.0%	3.7%	1.8%	1.1%	1.1%	1.5%	1.9%	3.8%	1.7%	3.5%	1.0%	2.0%				Heavy Veh %

North Avenue & Thatcher Avenue 12/08/2022 12:00 AM

		atcher Aver			North Avenu		Th	atcher Aver		I	North Avenu Eastbound						
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Hourly Total	PC %	Heavy Veh %	Peak Hour Factor	FILTER
12:00 AM	8	2	5	2	143	9	10	12	3	9	252	15	470	98.5%	1.5%		
12:15 AM	2	2	2	3	126	6	9	7	1	7	219	15	399	98.2%	1.8%		
12:30 AM	1	2	1	2	107	3	3	6	2	5	199	14	345	98.3%	1.7%		
12:45 AM	1	2	0	2	94	4	1	4	1	3	172	9	293	98.6%	1.4%		
1:00 AM	3	3	0	3	105	7	2	3	2	3	176	8	315	98.7%	1.3%		
1:15 AM	3	4	1	2	106	7	3	3	2	4	192	6	333	98.5%	1.5%		
1:30 AM	3	4	2	2	100	8	5	3	1	5	185	8	326	97.9%	2.1%		
1:45 AM	2	3	2	2	107	5	7	2	1	5	189	8	333	98.2%	1.8%		
2:00 AM	0	2	3	3	116	2	6	2	0	3	166	6	309	97.4%	2.6%		
2:15 AM	0	2	2	3	142	3	4	1	1	2	129	6	295	97.6%	2.4%		
2:30 AM	0	2	1	3	173	1	4	1	1	2	107	6	301	97.3%	2.7%		
2:45 AM	1	3	1	3	214	2	5	0	2	2	102	7	342	97.1%	2.9%		
3:00 AM	1	4	0	2	261	3	10	1	2	3	103	8	398	97.2%	2.8%		
3:15 AM	5	4	1	8	284	2	13	2	1	4	106	6	436	97.9%	2.1%		
3:30 AM	6	5	3	9	372	3	18	3	2	5	115	5	546	98.2%	1.8%		
3:45 AM	6	6	3	11	468	2	18	4	1	4	131	6	660	98.5%	1.5%		
4:00 AM	9	5	5	12	562	5	14	3	1	5	156	6	783	97.8%	2.2%		
4:15 AM	6	6	6	8	716	8	17	4	2	6	204	10	993	97.2%	2.8%		
4:30 AM	10	10	10	10	869	12	17	4	2	7	249	13	1213	96.9%	3.1%		
4:45 AM	16	9	14	15	1038	17	31	5	4	10	297	14	1470	97.3%	2.7%		
5:00 AM	18	13	14	22	1158	20	44	6	6	12	353	17	1683	97.0%	3.0%		
5:15 AM	26	15	15	28	1197	25	50	13	8	14	426	22	1839	96.8%	3.2%		
5:30 AM	38	19	16	39	1222	24	66	20	13	20	567	38	2082	96.6%	3.4%		
5:45 AM	47	30	21	49	1224	25	70	32	16	20	761	56	2351	95.7%	4.3%		
6:00 AM	63	53	30	64	1275	32	84	48	24	28	976	107	2784	95.7%	4.3%		
6:15 AM	78	76	35	79	1304	39	107	63	28	39	1157	133	3138	95.7%	4.3%		
6:30 AM	94	114	40	79	1386	48	132	90	34	43	1277	176	3513	95.9%	4.1%		
6:45 AM	117	158	50	90	1457	53	166	107	44	60	1375	218	3895	96.3%	3.7%		
7:00 AM	143	201	61	92	1505	52	205	116	49	60	1375	265	4124	96.9%	3.1%		
7:15 AM	166	222	67	104	1608	59	233	126	61	56	1329	292	4323	96.6%	3.4%		
7:30 AM	164	234	72	125	1602	58	244	120	64	56	1293	321	4353	96.1%	3.9%	0.96	AM Peak
7:45 AM	149	225	74	118	1509	65	236	111	63	48	1171	315	4084	95.7%	4.3%		
8:00 AM	122	199	75	110	1414	64	218	109	65	45	1158	261	3840	94.9%	5.1%		
8:15 AM	90	174	84	91	1276	52	191	87	58	52	1122	248	3525	94.5%	5.5%		
8:30 AM	73	144	79	68	1170	50	174	75	54	50	1028	191	3156	94.3%	5.7%		
8:45 AM	67	127	68	62	1068	37	181	67	55	55	1026	191	3004	94.0%	6.0%		
9:00 AM	64	122	64	65	1031	32	188	64	48	61	906	184	2829	94.1%	5.9%		
9:15 AM	61	111	52	62	1011	37	198	69	44	56	850	186	2737	94.8%	5.2%		

9:30 AM	59	98	52	61	972	37	203	64	45	63	818	208	2680	95.0%	5.0%		
9:45 AM	54	85	61	52	1028	42	178	68	35	67	710	179	2559	95.2%	4.8%		
10:00 AM	52	59	56	44	997	44	174	66	30	71	696	183	2472	94.6%	5.4%		
10:15 AM	56	65	61	42	975	42	182	74	28	82	720	179	2506	94.8%	5.2%		
10:30 AM	61	76	68	48	1029	45	205	85	34	88	783	177	2699	95.4%	4.6%		
10:45 AM	55	82	70	56	979	46	223	91	38	93	837	196	2766	95.9%	4.1%		
11:00 AM	64	92	74	56	1037	55	210	93	46	100	923	214	2964	96.6%	3.4%		
11:15 AM	62	91	76	54	1073	60	214	97	46	109	936	222	3040	96.8%	3.2%		
11:30 AM	59	82	80	46	1018	59	191	103	37	108	942	221	2946	96.5%	3.5%		
11:45 AM	73	78	77	46	1070	72	188	113	44	106	975	230	3072	96.3%	3.7%		
12:00 PM	65	90	75	49	997	67	215	123	56	98	961	239	3035	96.3%	3.7%		
12:15 PM	71	86	72	58	1069	70	210	118	60	91	997	256	3158	96.0%	4.0%		
12:30 PM	67	91	66	61	1081	70	224	112	59	96	1036	250	3213	96.0%	4.0%		
12:45 PM	65	96	70	63	1122	62	229	97	50	103	1110	272	3339	95.9%	4.1%		
1:00 PM	65	83	76	64	1183	63	214	99	36	112	1152	267	3414	95.7%	4.3%		
1:15 PM	60	99	71	58	1102	56	216	110	38	107	1204	253	3374	96.0%	4.0%		
1:30 PM	64	99	76	60	1191	65	210	121	45	111	1266	291	3599	96.1%	3.9%		
1:45 PM	70	115	74	65	1165	72	210	140	61	105	1301	306	3684	96.7%	3.3%		
2:00 PM	73	148	68	61	1172	87	209	141	67	109	1357	322	3814	97.1%	2.9%		
2:15 PM	86	151	73	69	1193	87	219	152	71	146	1387	345	3979	97.5%	2.5%		
2:30 PM	92	177	77	79	1191	88	241	157	67	166	1424	383	4142	97.7%	2.3%		
2:45 PM	91	182	74	74	1219	86	270	157	68	188	1408	404	4221	97.7%	2.3%		
3:00 PM	89	174	81	81	1278	80	288	178	64	200	1386	428	4327	97.6%	2.4%		
3:15 PM	104	212	88	83	1363	93	312	195	68	191	1432	465	4606	97.8%	2.2%		
3:30 PM	114	222	82	74	1327	85	317	209	80	193	1387	490	4580	97.9%	2.1%		
3:45 PM	114	227	80	79	1370	82	323	222	70	196	1451	501	4715	98.0%	2.0%	0.93	PM Peak
4:00 PM	127	234	72	73	1297	80	331	235	78	204	1458	501	4690	98.4%	1.6%		
4:15 PM	110	211	65	73	1259	70	314	214	75	199	1418	494	4502	98.3%	1.7%		
4:30 PM	101	212	64	65	1319	78	305	223	72	190	1465	464	4558	98.6%	1.4%		
4:45 PM	101	217	70	58	1262	71	312	223	74	192	1434	460	4474	98.6%	1.4%		
5:00 PM	92	212	78	54	1291	64	292	193	70	191	1465	473	4475	98.6%	1.4%		
5:15 PM	93	204	76	52	1268	70											
5:30 PM							287	185	74	198	1452	471	4430	98.7%	1.3%		
5:45 PM	101	172	71	60			287 280	185 165	74 72		1452 1456	471 439	4430 4231	98.7% 98.7%	1.3% 1.3%		
	101 97	172 141	71 60		1137 1118	65 68	280	185 165 138	74 72 67	198 213 193	1452 1456 1467	471 439 412	4430 4231 4045		1.3% 1.3% 1.2%		
				60	1137 1118	65	280 223	165 138	72	213	1456 1467	439 412	4231	98.7% 98.8%	1.3% 1.2%		
6:00 PM 6:15 PM	97	141	60	60 61 57	1137	65 68	280 223 199	165 138 127	72 67	213 193	1456 1467 1379	439 412 357	4231 4045	98.7%	1.3% 1.2% 1.2%		
6:00 PM 6:15 PM	97 91 84	141 116 90	60 44 44	60 61 57 44	1137 1118 1028 954	65 68 68 59	280 223 199 169	165 138 127 118	72 67 64 54	213 193 180 153	1456 1467 1379 1287	439 412 357 285	4231 4045 3710 3341	98.7% 98.8% 98.8% 98.8%	1.3% 1.2% 1.2% 1.2%		
6:00 PM	97 91	141 116	60 44	60 61 57	1137 1118 1028	65 68 68	280 223 199	165 138 127	72 67 64	213 193 180	1456 1467 1379	439 412 357	4231 4045 3710	98.7% 98.8% 98.8%	1.3% 1.2% 1.2%		
6:00 PM 6:15 PM 6:30 PM	97 91 84 62	141 116 90 81	60 44 44 43	60 61 57 44 37	1137 1118 1028 954 953	65 68 68 59 48	280 223 199 169 116	165 138 127 118 88	72 67 64 54 41	213 193 180 153 112	1456 1467 1379 1287 1173	439 412 357 285 257	4231 4045 3710 3341 3011	98.7% 98.8% 98.8% 98.8% 98.9%	1.3% 1.2% 1.2% 1.2% 1.1%		
6:00 PM 6:15 PM 6:30 PM 6:45 PM 7:00 PM	97 91 84 62 46	141 116 90 81	60 44 44 43 44 41	60 61 57 44 37 31 40	1137 1118 1028 954 953 843	65 68 68 59 48 46 44	280 223 199 169 116 111	165 138 127 118 88 75	72 67 64 54 41	213 193 180 153 112 100 76	1456 1467 1379 1287 1173 1079	439 412 357 285 257 218	4231 4045 3710 3341 3011 2693 2489	98.7% 98.8% 98.8% 98.9% 99.0%	1.3% 1.2% 1.2% 1.2% 1.1%		
6:00 PM 6:15 PM 6:30 PM 6:45 PM	97 91 84 62 46 37	141 116 90 81 63 49	60 44 44 43 44 41 30	60 61 57 44 37	1137 1118 1028 954 953 843 806	65 68 68 59 48	280 223 199 169 116 111 113	165 138 127 118 88 75 65	72 67 64 54 41 37 33	213 193 180 153 112	1456 1467 1379 1287 1173 1079 995	439 412 357 285 257 218 190	4231 4045 3710 3341 3011 2693	98.7% 98.8% 98.8% 98.8% 98.9% 99.0% 99.2%	1.3% 1.2% 1.2% 1.2% 1.1% 1.0% 0.8%		
6:00 PM 6:15 PM 6:30 PM 6:45 PM 7:00 PM 7:15 PM 7:30 PM	97 91 84 62 46 37 28	141 116 90 81 63 49 43	60 44 44 43 44 41	60 61 57 44 37 31 40 43 38	1137 1118 1028 954 953 843 806 751 654	65 68 68 59 48 46 44 36	280 223 199 169 116 111 113 91	165 138 127 118 88 75 65 59	72 67 64 54 41 37 33 24 23	213 193 180 153 112 100 76 71	1456 1467 1379 1287 1173 1079 995 986	439 412 357 285 257 218 190 190 163	4231 4045 3710 3341 3011 2693 2489 2352 2141	98.7% 98.8% 98.8% 98.8% 98.9% 99.0% 99.2% 99.1%	1.3% 1.2% 1.2% 1.2% 1.1% 1.0% 0.8% 0.9%		
6:00 PM 6:15 PM 6:30 PM 6:45 PM 7:00 PM 7:15 PM 7:30 PM 7:45 PM	97 91 84 62 46 37 28 32 34	141 116 90 81 63 49 43 36 35	60 44 44 43 44 41 30 23 20	60 61 57 44 37 31 40 43 38 38	1137 1118 1028 954 953 843 806 751 654 663	65 68 68 59 48 46 44 36 38 39	280 223 199 169 116 111 113 91 100 92	165 138 127 118 88 75 65 59 60	72 67 64 54 41 37 33 24 23 22	213 193 180 153 112 100 76 71 69 60	1456 1467 1379 1287 1173 1079 995 986 905 816	439 412 357 285 257 218 190 190 163 141	4231 4045 3710 3341 3011 2693 2489 2352 2141 2020	98.7% 98.8% 98.8% 98.9% 99.0% 99.2% 99.1% 99.2% 99.4%	1.3% 1.2% 1.2% 1.2% 1.1% 1.0% 0.8% 0.9% 0.8% 0.6%		
6:00 PM 6:15 PM 6:30 PM 6:45 PM 7:00 PM 7:15 PM 7:30 PM 7:45 PM 8:00 PM	97 91 84 62 46 37 28 32 34 39	141 116 90 81 63 49 43 36 35 34	60 44 44 43 44 41 30 23 20 24	60 61 57 44 37 31 40 43 38 38 38	1137 1118 1028 954 953 843 806 751 654 663 661	65 68 68 59 48 46 44 36 38 39 40	280 223 199 169 116 111 113 91 100 92 73	165 138 127 118 88 75 65 59 60 60 51	72 67 64 54 41 37 33 24 23 22 18	213 193 180 153 112 100 76 71 69 60 64	1456 1467 1379 1287 1173 1079 995 986 905 816 798	439 412 357 285 257 218 190 190 163 141 117	4231 4045 3710 3341 3011 2693 2489 2352 2141 2020 1951	98.7% 98.8% 98.8% 98.9% 99.0% 99.2% 99.1% 99.2% 99.4% 99.3%	1.3% 1.2% 1.2% 1.2% 1.1% 1.0% 0.8% 0.9% 0.8% 0.6% 0.7%		
6:00 PM 6:15 PM 6:30 PM 6:45 PM 7:00 PM 7:15 PM 7:30 PM 7:45 PM 8:00 PM 8:15 PM	97 91 84 62 46 37 28 32 34 39 37	141 116 90 81 63 49 43 36 35 34	60 44 44 43 44 41 30 23 20 24 32	60 61 57 44 37 31 40 43 38 38 38 32 24	1137 1118 1028 954 953 843 806 751 654 663 661 664	65 68 68 59 48 46 44 36 38 39 40 43	280 223 199 169 116 111 113 91 100 92 73 75	165 138 127 118 88 75 65 59 60 60 51	72 67 64 54 41 37 33 24 23 22 18 23	213 193 180 153 112 100 76 71 69 60 64 63	1456 1467 1379 1287 1173 1079 995 986 905 816 798 758	439 412 357 285 257 218 190 190 163 141 117	4231 4045 3710 3341 3011 2693 2489 2352 2141 2020 1951	98.7% 98.8% 98.8% 98.9% 99.0% 99.2% 99.1% 99.2% 99.4% 99.3% 99.5%	1.3% 1.2% 1.2% 1.2% 1.1% 1.0% 0.8% 0.9% 0.8% 0.6% 0.7%		
6:00 PM 6:15 PM 6:30 PM 6:45 PM 7:00 PM 7:15 PM 7:30 PM 7:45 PM 8:00 PM	97 91 84 62 46 37 28 32 34 39	141 116 90 81 63 49 43 36 35 34	60 44 44 43 44 41 30 23 20 24	60 61 57 44 37 31 40 43 38 38 38	1137 1118 1028 954 953 843 806 751 654 663 661	65 68 68 59 48 46 44 36 38 39 40	280 223 199 169 116 111 113 91 100 92 73	165 138 127 118 88 75 65 59 60 60 51	72 67 64 54 41 37 33 24 23 22 18	213 193 180 153 112 100 76 71 69 60 64	1456 1467 1379 1287 1173 1079 995 986 905 816 798	439 412 357 285 257 218 190 190 163 141 117	4231 4045 3710 3341 3011 2693 2489 2352 2141 2020 1951	98.7% 98.8% 98.8% 98.9% 99.0% 99.2% 99.1% 99.2% 99.4% 99.3%	1.3% 1.2% 1.2% 1.2% 1.1% 1.0% 0.8% 0.9% 0.8% 0.6% 0.7%		

Heavy Veh %	1.8%	1.3%	0.7%	1.6%	3.3%	1.9%	1.2%	0.9%	1.4%	0.9%	3.9%	0.9%				Heavy Veh %
PC %	98.2%	98.7%	99.3%	98.4%	96.7%	98.1%	98.8%	99.1%	98.6%	99.1%	96.1%	99.1%				PC %
Movement Total	1286	1961	990	1044	20485	968	3217	1821	807	1742	19813	4358				Movement Total
11:45 PM	2	0	1	3	58	1	2	6	0	2	95	8				
11:30 PM	2	0	2	7	104	2	7	7	1	8	191	11				
11:15 PM	5	2	4	8	171	3	11	13	5	14	303	21				
11:00 PM	7	6	7	12	238	4	14	18	10	22	426	28	792	98.9%	1.1%	
10:45 PM	10	9	8	16	269	4	15	15	13	24	455	27	865	98.8%	1.2%	
10:30 PM	16	18	9	18	319	7	15	21	12	27	486	37	985	99.0%	1.0%	
10:15 PM	18	21	8	25	350	9	24	20	11	33	517	49	1085	99.2%	0.8%	
10:00 PM	22	24	11	22	404	14	39	25	9	32	522	52	1176	99.2%	0.8%	
9:45 PM	26	34	13	23	416	21	44	25	10	40	528	66	1246	99.2%	0.8%	
9:30 PM	27	30	20	26	463	21	62	29	16	42	573	81	1390	99.3%	0.7%	
9:15 PM	29	35	22	23	481	29	66	35	22	43	607	82	1474	99.5%	0.5%	
9:00 PM	32	36	26	24	526	32	65	43	26	54	674	110	1648	99.6%	0.4%	





12 Hour Traffic Counts



Study Name Start Date

3.William Street @ Division Street 05/31/2023

7:00 AM

Start Time
*Hourly totals given in 15 minute intervals

		m St. bound		on St. bound		on St. oound] ',				
Start Time	Left	Right	Thru	Right	Left	Thru	Hourly Total	PC %	Heavy Veh %	Peak Hour Factor	FILTER
7:00 AM	16	11	193	32	7	242	501	97.8%	2.2%		
7:15 AM	24	17	209	36	13	284	583	98.1%	1.9%		
7:30 AM	26	25	228	54	23	296	652	98.0%	2.0%	0.85	AM Peak
7:45 AM	27	28	212	54	26	265	612	98.0%	2.0%		
8:00 AM	27	25	192	44	25	213	526	97.9%	2.1%		
8:15 AM	21	23	163	40	22	163	432	97.9%	2.1%		
8:30 AM	17	16	137	19	13	121	323	98.1%	1.9%		
8:45 AM	16	13	127	17	9	126	308	98.1%	1.9%		
9:00 AM	16	12	109	22	5	126	290	97.9%	2.1%		
9:15 AM	15	9	120	22	4	139	309	97.7%	2.3%		
9:30 AM	15	7	122	26	7	139	316	97.5%	2.5%		
9:45 AM	12	6	120	25	9	141	313	97.1%	2.9%		
10:00 AM	9	7	121	22	12	142	313	97.4%	2.6%		
10:15 AM	8	10	115	26	14	131	304	96.7%	3.3%		
10:30 AM	9	13	126	31	13	159	351	96.9%	3.1%		
10:45 AM	14	17	138	39	12	151	371	96.5%	3.5%		
11:00 AM	15	21	136	39	10	151	372	96.8%	3.2%		
11:15 AM	19	22	146	39	9	165	400	97.8%	2.3%		
11:30 AM	17	21	151	35	10	143	377	97.9%	2.1%		
11:45 AM	13	17	149	27	13	155	374	98.9%	1.1%		
12:00 PM	13	13	159	24	14	140	363	98.3%	1.7%		
12:15 PM	11	14	153	21	12	131	342	98.0%	2.0%		
12:30 PM	14	15	141	17	8	141	336	97.9%	2.1%		
12:45 PM	12	14	133	19	5	139	322	97.5%	2.5%		

1:00 PM	14	13	127	24	4	161	343	98.3%	1.7%		
1:15 PM	19	13	129	28	6	183	378	98.1%	1.9%		
1:30 PM	20	15	142	29	6	199	411	98.8%	1.2%		
1:45 PM	24	15	153	35	6	201	434	98.8%	1.2%		
2:00 PM	20	19	169	39	8	212	467	98.3%	1.7%		
2:15 PM	13	18	180	43	11	210	475	98.7%	1.3%		
2:30 PM	14	15	180	47	20	260	536	98.3%	1.7%		
2:45 PM	17	16	200	51	25	306	615	98.7%	1.3%		
3:00 PM	20	15	220	47	26	323	651	98.3%	1.7%		
3:15 PM	23	14	228	46	24	360	695	98.6%	1.4%		
3:30 PM	27	18	255	54	20	349	723	98.5%	1.5%		
3:45 PM	26	17	270	51	18	363	745	98.5%	1.5%		
4:00 PM	34	16	269	52	18	384	773	99.4%	0.6%		
4:15 PM	36	18	305	49	18	402	828	99.3%	0.7%		
4:30 PM	39	14	341	46	18	432	890	99.8%	0.2%		
4:45 PM	39	15	371	54	17	426	922	99.9%	0.1%		
5:00 PM	35	18	394	65	14	425	951	99.9%	0.1%	0.90	PM Peak
5:15 PM	34	18	376	67	14	388	897	100.0%	0.0%		
5:30 PM	25	18	338	67	9	341	798	99.9%	0.1%		
5:45 PM	23	18	287	55	6	316	705	99.9%	0.1%		
6:00 PM	18	14	256	48	5	299	640	99.8%	0.2%		
6:15 PM	12	8	183	35	1	222	461	99.8%	0.2%		
6:30 PM	8	5	113	22	1	148	297	100.0%	0.0%		
6:45 PM	3	2	61	14	1	79	160	100.0%	0.0%		
Movement Total	237	184	2345	458	148	2818					Movement Total
PC %	97.05%	95.65%	98.76%	97. <mark>60</mark> %	97.30%	98.90%					PC %
Heavy Veh %	2.95%	4.35%	1.24%	2.40%	2.70%	1.10%					Heavy Veh %

2.William St @ Le Moyne Parkway 05/31/2023 7:00 AM

St	tart Time	9					7:0	O AM					-				
*Hourly totals g	jiven in 15	minute inter	vals														
	William St. Southbound			Le	Moyne Park	way		William St.		Le	Moyne Parl	kway					
		Southbound	b		Westbound			Northbound	d		Eastbound	d ,					
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Hourly Total	PC %	Heavy Veh %	Peak Hour Factor	FILTER
7:00 AM	21	22	14	1	16	0	4	10	3	0	26	1	118	98.3%	1.7%		
7:15 AM	26	31	14	2	23	1	6	13	6	1	33	3	159	98.1%	1.9%		
7:30 AM	25	40	19	2	25	1	5	30	10	3	33	3	196	98.0%	2.0%		
7:45 AM	22	39	20	2	25	1	7	31	10	5	26	2	190	97.9%	2.1%		
8:00 AM	25	44	21	2	25	1	6	34	7	5	25	2	197	98.5%	1.5%	0.76	AM Peak
8:15 AM	21	38	24	2	17	0	4	32	6	5	15	1	165	98.2%	1.8%		
8:30 AM	19	24	16	3	15	2	3	14	2	3	11	1	113	97.3%	2.7%		
8:45 AM	17	19	9	2	11	2	0	11	4	2	13	2	92	95.7%	4.3%		
9:00 AM	18	22	8	4	8	2	0	12	5	2	14	2	97	93.8%	6.2%		
9:15 AM	18	19	7	5	9	4	0	11	4	3	17	2	99	93.9%	6.1%		
9:30 AM	15	21	11	4	10	3	0	15	5	3	24	2	113	95.6%	4.4%		
9:45 AM	15	19	15	4	10	4	2	14	3	3	19	1	109	95.4%	4.6%		
10:00 AM	15	8	17	2	15	4	3	15	4	4	15	1	103	97.1%	2.9%		
10:15 AM	13	11	15	0	17	2	4	22	3	3	16	0	106	97.2%	2.8%		
10:30 AM	16	19	15	0	18	2	5	21	4	5	12	0	117	95.7%	4.3%		
10:45 AM	17	26	14	0	20	3	3	21	7	5	19	1	136	96.3%	3.7%		
11:00 AM	14	32	12	0	23	4	2	17	5	5	22	2	138	96.4%	3.6%		
11:15 AM	15	33	11	1	20	4	1	10	5	4	20	2	126	96.8%	3.2%		
11:30 AM	11	27	8	2	19	3	0	14	6	2	25	2	119	97.5%	2.5%		
11:45 AM	11	22	5	2	24	1	0	13	4	1	21	1	105	98.1%	1.9%		
12:00 PM	8	22	4	4	21	1	0	11	4	0	22	0	97	99.0%	1.0%		
12:15 PM	10	21	6	4	24	2	0	17	5	4	21	2	116	98.3%	1.7%		
12:30 PM	9	17	6	5	25	2	1	12	5	4	16	2	104	97.1%	2.9%		
12:45 PM	10	15	9	5	19	2	1	14	5	4	14	3	101	96.0%	4.0%		
1:00 PM	9	13	13	4	19	2	1	15	8	4	15	4	107	95.3%	4.7%		
1:15 PM	6	17	12	3	16	2	2	11	8	1	28	2	108	96.3%	3.7%		
1:30 PM	10	22	14	2	14	5	1	13	6	3	30	4	124	98.4%	1.6%		
1:45 PM	11	24	11	3	18	5	1	13	9	3	35	3	136	97.1%	2.9%		
2:00 PM	13	26	14	7	16	4	1	18	11	7	36	3	156	95.5%	4.5%		
2:15 PM	17	19	22	7	22	4	1	19	13	6	28	5	163	95.7%	4.3%		
2:30 PM	18	21	23	6	24	2	2	25	17	4	34	3	179	96.1%	3.9%		
2:45 PM	17	27	22	6	23	3	3	24	16	7	38	5	191	97.4%	2.6%		
3:00 PM	20	30	23	1	24	4	5	26	13	7	47	4	204	99.5%	0.5%		
3:15 PM	16	43	19	1	24	3	6	26	11	7	46	2	204	99.5%	0.5%		
3:30 PM	14	47	23	2	25	4	7	23	7	8	53	2	215	98.1%	1.9%		
3:45 PM	15	45	31	1	24	3	7	23	6	6	57	2	220	97.7%	2.3%		
4:00 PM	11	45	24	1	31	3	5	19	4	5	57	3	208	97.1%	2.9%		
4:15 PM	11	39	22	1	28	4	7	17	4	6	74	3	216	97.2%	2.8%		

4:30 PM	11	39	19	1	27	4	8	17	5	7	67	3	208	98.6%	1.4%		
4:45 PM	10	39	13	1	30	5	8	25	3	6	70	1	211	99.5%	0.5%		
5:00 PM	12	41	15	1	25	5	10	31	6	5	70	0	221	99.5%	0.5%	0.89	PM Peak
5:15 PM	13	39	18	1	23	7	7	34	7	6	51	1	207	99.5%	0.5%	0.00	I III I Gaix
5:30 PM	12	29	15	0	26	11	6	29	8	6	52	2	196	99.5%	0.5%		
5:45 PM	11	29	17	1	23	13	7	26	13	6	44	3	193	99.0%	1.0%		
6:00 PM	11	20	13	2	27	13	5	22	11	5	39	4	172	99.4%	0.6%		
6:15 PM	9	13	6	2	23	10	4	16	9	3	34	3	132	99.2%	0.8%		
6:30 PM	7	11	4	2	14	4	2	14	6	1	22	2	89	98.9%	1.1%		
6:45 PM	5	2	0	1	10	1	0	7	1	1	12	1	41	100.0%	0.0%		
Movement Total	177	325	178	29	250	43	42	230	81	49	388	26					Movement Total
PC %	97.74%	97.85%	98.31%	79.31%	98.00%	100.00%	100.00%	98.70%	91.36%	100.00%	98.97%	92.31%					PC %
Heavy Veh %	2.26%	2.15%	1.69%	20.69%	2.00%	0.00%	0.00%	1.30%	8.64%	0.00%	1.03%	7.69%					Heavy Veh %

1.Monroe Avenue @ Le Moyne Parkway 05/31/2023 7:00 AM

		Monroe Ave Southbound		Le	Moyne Park Westbound	•		Monroe Ave Northbound		Le	Moyne Park Eastbound	•					
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Hourly Total	PC %	Heavy Veh %	Peak Hour Factor	FILTER
:00 AM	9	46	12	4	24	5	8	14	1	0	17	5	145	98.6%	1.4%		
:15 AM	16	56	12	5	33	5	6	17	2	1	19	7	179	98.9%	1.1%		
:30 AM	17	51	12	4	39	5	8	20	6	1	16	4	183	98.9%	1.1%	0.79	AM Peak
:45 AM	15	48	11	5	46	2	10	24	6	1	11	3	182	98.9%	1.1%		
:00 AM	15	39	6	3	48	2	5	25	6	1	10	4	164	100.0%	0.0%		
:15 AM	9	28	7	1	40	4	7	26	6	0	7	3	138	99.3%	0.7%		
:30 AM	7	30	8	1	32	3	6	21	2	0	7	3	120	99.2%	0.8%		
:45 AM	10	27	10	0	18	3	6	19	2	0	7	4	106	95.3%	4.7%		
:00 AM	10	30	7	0	14	3	6	13	2	0	7	2	94	94.7%	5.3%		
):15 AM	10	33	6	1	15	1	4	12	4	1	8	1	96	95.8%	4.2%		
9:30 AM	14	29	6	1	19	0	6	17	4	1	10	1	108	96.3%	3.7%		
9:45 AM	11	29	3	2	23	0	4	18	3	1	8	0	102	99.0%	1.0%		
0:00 AM	8	26	6	4	28	1	4	20	4	1	8	0	110	97.3%	2.7%		
0:15 AM	11	22	7	3	30	2	4	20	1	0	7	0	107	94.4%	5.6%		
0:30 AM	11	24	7	4	30	4	2	21	1	0	5	0	109	94.5%	5.5%		
0:45 AM	16	23	9	4	29	5	2	16	1	0	8	0	113	93.8%	6.2%		
1:00 AM	21	28	8	3	29	6	3	23	0	0	8	0	129	93.0%	7.0%		
1:15 AM	19	35	8	3	22	5	3	21	0	0	7	0	123	95.1%	4.9%		
1:30 AM	20	37	8	2	21	4	2	18	0	2	8	0	122	95.1%	4.9%		
1:45 AM	14	39	6	1	24	3	5	25	0	3	8	1	129	96.1%	3.9%		
2:00 PM	12	35	4	0	22	2	4	18	0	3	9	1	110	99.1%	0.9%		
2:15 PM	13	27	4	1	25	3	3	20	3	3	11	3	116	99.1%	0.9%		
2:30 PM	8	26	5	3	21	4	5	19	3	1	12	3	110	98.2%	1.8%		
2:45 PM	8	22	10	4	18	4	4	21	3	0	11	3	108	97.2%	2.8%		
:00 PM	8	21	12	5	22	3	6	22	6	0	10	3	118	97.5%	2.5%		
:15 PM	14	31	11	5	22	2	7	22	6	0	11	1	132	97.0%	3.0%		
:30 PM	18	30	12	4	24	0	7	24	7	0	11	1	138	97.8%	2.2%		
:45 PM	18	34	7	3	25	1	8	15	8	0	14	0	133	99.2%	0.8%		
:43 FW :00 PM	23	33	14	2	23 27	1	7	21	6	0	17	0	151	97.4%	2.6%		
:15 PM	18	29	14	4	37	2	9	25	4	0	16	1	159	98.1%	1.9%		
:30 PM	18	29 44	14	5	41	2	8	29 29	5	0	18	1	182	98.4%	1.6%		
:45 PM	20	53	13	7	38	3	6	43	5 7	1	22	1	214	98.4%	1.9%		
:00 PM		62	7	$\overline{}$	40	4	6	43	8	2	25	1 1	214	98.1%	0.4%		
00 РМ 15 РМ	23 22		6	8	37	5	5		o 7		25 25	0		99.6%	0.4%		
15 РМ 30 РМ		69 63	9	8 6	41	7	5 6	40		4			228				
	25							36	7	4	31	0	235	97.9%	2.1%		
45 PM	28	60	10	4	52	6	6	32	6	4	32	2	242	97.9%	2.1%		
00 PM	25	60	8	4	50	7	7	33	8	3	33	4	242	97.9%	2.1%		
1:15 PM	27	55	15	3	47	9	7	32	11	2	47	5	260	98.1%	1.9%	0.90	PM P

L 00 D14	00		40	•	4-7	•	•	0.4	40	•	47	_		00.00/	0.40/	ī
4:30 PM	22	56	12	3	47	8	8	31	10	3	47	5	252	99.6%	0.4%	
4:45 PM	22	62	11	3	42	8	8	25	8	3	49	3	244	100.0%	0.0%	
5:00 PM	19	60	11	2	41	7	10	21	5	3	54	1	234	100.0%	0.0%	
5:15 PM	13	64	5	0	43	5	10	23	2	2	44	1	212	99.5%	0.5%	
5:30 PM	14	56	6	0	42	5	8	23	4	3	42	2	205	99.5%	0.5%	
5:45 PM	12	45	4	0	40	6	8	21	4	2	37	2	181	99.4%	0.6%	
6:00 PM	11	39	6	0	41	5	4	25	5	2	31	2	171	99.4%	0.6%	
6:15 PM	11	23	4	0	30	3	2	16	5	2	24	1	121	100.0%	0.0%	
6:30 PM	8	15	3	0	18	2	1	12	2	0	15	0	76	100.0%	0.0%	
6:45 PM	4	6	3	0	11	0	0	9	2	0	8	0	43	100.0%	0.0%	
Movement Total	184	479	101	35	386	46	70	276	51	15	229	23				Movement Total
PC %	97.8%	98.5%	94.1%	100.0%	99.0%	95.7%	97.1%	97.5%	100.0%	100.0%	99.6%	95.7%				PC %
Heavy Veh %	2.2%	1.5%	5.9%	0.0%	1.0%	4.3%	2.9%	2.5%	0.0%	0.0%	0.4%	4.3%		•		Heavy Veh %

Franklin Avenue @ Washington Boulevard 05/31/2023 7:00 AM

riouny totalo g	given iii 10 i	n 15 minute intervals Franklin Ave. Southbound Westbound ft Thru Bear Right Left Bear Left Thru					•				in Ave. bound			Parl Northea					ton Blvd.						
Start Time	Left	Thru		Right	Left	Bear Left	Thru	Right	Hard Left	Left	Thru	Right	Hard Left	Bear Left	Bear Right	Hard Right	Left	Thru	Right	Hard Right	Hourly Total	PC %	Heavy Veh %	Peak Hour Factor	FILTER
:00 AM	9	15	1	7	7	2	160	6	0	2	12	13	0	0	0	0	3	388	2	1	628	36.1%	63.9%		
:15 AM	11	20	1	8	9	1	195	9	0	3	22	14	0	0	0	0	5	381	3	1	683	41.6%	58.4%		
:30 AM	15	21	1	10	12	3	216	17	0	3	28	13	0	0	0	0	7	359	5	1	711	46.4%	53.6%	1.91	AM Peak
:45 AM	16	23	0	10	13	2	192	20	0	4	29	15	0	0	0	0	9	324	5	1	663	47.7%	52.3%		
:00 AM	13	27	0	6	9	3	187	22	0	2	29	12	0	0	0	0	7	280	4	0	601	49.6%	50.4%		
:15 AM	10	27	0	3	11	3	163	19	0	2	21	12	0	0	0	0	6	235	3	0	515	50.7%	49.3%		
:30 AM	8	26	0	1	11	2	136	12	0	3	15	13	0	0	0	0	4	183	2	0	416	52.2%	47.8%		
:45 AM	3 6	26	0	1	10	2 1	138	9	0	2	15	13	0	0	0	0	2	158	3 4	0	382	54.2%	45.8%		
:00 AM :15 AM	6	22 22	3	3	11 9	1	121 114	11 10	0	2	14 11	13 10	0	0	0	0	4 5	156 144	4	0	367 344	54.0% 53.8%	46.0% 46.2%		
:15 AW :30 AM	5	20	3	4	7	1	114	10	0	1	12	11	0	0	0	0	5	144	4	0	339	53.4%	46.2% 46.6%		
:45 AM	6	16	3	4	6	1	108	12	1	1	15	9	0	0	0	0	5	130	2	0	319	55.8%	44.2%		
0:00 AM	2	16	2	4	5	1	108	7	1	1	16	9	0	0	0	0	5	146	1	0	319	51.7%	44.2%		
0:00 AM 0:15 AM	4	16	0	3	5 6	1	105	7	1	2	18	12	0	0	0	0	5	145	3	0	321 331	53.2%	46.8%		
0:15 AM 0:30 AM	3	26	1	3	5	0	108	6	1	3	21	11	0	0	0	0	5	138	2	0	333	55.9%	46.8%		
0:45 AM	7	28	1	5	6	0	111	5	0	3	21	11	0	0	0	0	6	142	3	0	349	56.7%	43.3%		
1:00 AM	10	28	4	6	7	0	120	4	0	3	21	10	0	0	0	0	8	132	4	0	357	59.7%	40.3%		
1:15 AM	9	28	5	5	6	2	114	4	0	2	21	6	0	0	0	0	10	149	2	0	363	55.6%	44.4%		
1:30 AM	13	18	4	3	8	4	124	7	0	1	16	7	0	0	0	0	13	179	2	0	399	50.6%	49.4%		
1:45 AM	10	16	4	2	8	5	133	9	0	1	13	7	0	0	0	0	14	196	3	0	421	48.0%	52.0%		
2:00 PM	9	16	1	3	12	6	122	9	1	1	11	6	0	0	0	0	10	207	3	0	417	45.6%	54.4%		
2:15 PM	11	18	1	5	13	4	146	9	1	0	10	13	0	0	1	0	8	209	4	0	453	49.2%	50.8%		
2:30 PM	11	17	1	6	10	2	151	6	1	1	12	15	0	0	1	0	5	202	4	0	445	51.2%	48.8%		
2:45 PM	10	21	1	6	12	1	152	4	1	1	12	17	0	0	1	0	5	205	3	0	452	52.2%	47.8%		
:00 PM	9	21	2	5	9	1	185	6	0	3	12	18	0	0	1	0	9	212	2	0	495	54.5%	45.5%		
:15 PM	8	15	2	4	8	1	179	7	0	5	16	13	0	0	0	0	9	202	1	0	470	54.7%	45.3%		
:30 PM	8	17	2	3	8	2	197	7	0	5	17	9	0	0	0	0	10	207	1	0	493	55.6%	44.4%		
:45 PM	11	15	2	3	6	4	213	5	0	5	23	11	0	0	0	0	11	224	2	0	535	55.3%	44.7%		
:00 PM	11	21	1	3	8	5	212	5	0	3	28	14	0	0	0	0	9	247	3	0	570	54.0%	46.0%		
:15 PM	11	25	1	3	8	7	220	6	0	1	33	20	0	0	0	0	13	288	3	0	639	52.1%	47.9%		
:30 PM	10	36	2	8	12	7	226	5	0	1	37	22	0	0	0	0	13	318	3	0	700	51.9%	48.1%		
:45 PM	10	46	2	9	15	6	225	7	0	3	33	21	0	0	0	0	12	353	3	0	745	49.7%	50.3%		
:00 PM	15	45	2	11	14	8	257	6	0	3	30	25	0	0	0	0	12	369	4	0	801	50.4%	49.6%		
:15 PM	13	46	1	11	15	6	283	9	0	5	31	26	0	0	0	0	9	370	4	0	829	52.0%	48.0%		
:30 PM	10	35	1	7	15	5	300	10	0	5	29	33	0	0	0	0	10	385	5	0	850	51.3%	48.7%	1.99	PM Peak
:45 PM	8	27	1	6	13	4	319	10	0	5	34	37	0	0	0	0	9	359	5	0	837	54.2%	45.8%		
00 PM	5	28	1	5	12	0	292	10	0	5	36	34	0	0	0	0	7	358	3	0	796	53.3%	46.7%		
:15 PM	7	26	2	7	11	1	282	7	1	7	35	29	0	0	0	0	5	353	4	1	778	53.2%	46.8%		
:30 PM	10	31	2	7	10	1	258	7	1	6	35	25	0	0	0	0	5	350	5	1	754	52.0%	48.0%		
:45 PM	12	32	2	8	12	2	255	7	1	4	36	26	0	0	0	0	9	351	5	1	763	52.0%	48.0%		
:00 PM	13	29	3	9	10	2	251	8	1	4	42	28	0	0	0	0	14	353	6	1	774	51.3%	48.7%		
15 PM	13	29	2	7	11	2	231	5	0	1	40	28	0	0	0	0	14	345	7	0	735	49.7%	50.3%		
30 PM	13	26	1	10	10	2	220	7	0	2	38	24	0	0	0	0	12	316	5	0	686	50.9%	49.1%		
:45 PM	9	21	1	10	9	1	184	6	0	2	35	15	0	0	0	0	8	288	3	0	592	48.5%	51.5%		
:00 PM	10	21	0	8	10	1	149	5	0	3	30	8	0	0	0	0	5	240	2	0	492	49.2%	50.8%		
:15 PM	8	16	0	7	7	0	105	5	0	2	21	4	0	0	0	0	4	167	0	0	346	50.0%	50.0%		
:30 PM	5	10	0	3	5	0	57	2	0	1	17	2	0	0	0	0	3	99	0	0	204	49.0%	51.0%		
:45 PM	5	7	0	1	2	0	21	1	0	1	8	1	0	0	0	0	2	47	0	0	96	49.0%	51.0%		
lovement otal	112	289	18	68	114	30	2161	99	3	32	281	190	0	0	1	0	93	3088	38	2					Movement Total
°C %	100.00%	99.31%	100.00%	97.06%	100.00%	96.67%	97.73%	98.99%	100.00%	96.88%	99.29%	98.95%			100.00%		95.70%	98.12%	97.37%	100.00%					PC %
leavy Veh %	0.00%	0.69%	0.00%	2.94%	0.00%	3.33%	2.27%	1.01%	0.00%	3.13%	0.71%	1.05%			0.00%		4.30%	1.88%	2.63%	0.00%					Heavy Veh

5.William Street @ Chicago Street 05/31/2023 7:00 AM

		William St. Southbound			Chicago Ave Westbound			William St. Northbound			Chicago Ave Eastbound						
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Hourly Total	PC %	Heavy Veh %	Peak Hour Factor	FILTER
7:00 AM	6	25	5	13	265	4	9	14	8	3	418	15	785	98.9%	1.1%		
7:15 AM	6	32	6	14	312	4	11	23	14	3	417	15	857	98.8%	1.2%		
7:30 AM	9	35	6	13	335	4	16	28	16	2	4 14	20	898	99.0%	1.0%		
7:45 AM	8	35	5	12	350	4	16	30	17	4	405	20	906	98.9%	1.1%	0.91	AM Peak
3:00 AM	8	27	6	11	336	5	12	29	15	5	373	20	847	98.7%	1.3%		
3:15 AM	9	22	7	11	303	4	14	25	12	5	332	18	762	98.7%	1.3%		
3:30 AM	6	21	6	10	258	5	12	19	15	6	309	15	682	98.7%	1.3%		
3:45 AM	7	14	5	14	228	5	13	18	20	3	303	10	640	98.1%	1.9%		
9:00 AM	7	14	3	19	219	2	12	18	24	2	298	6	624	97.6%	2.4%		
9:15 AM	6	13	0	19	230	4	8	20	22	1	321	6	650	97.5%	2.5%		
9:30 AM	7	12	0	23	251	5	6	24	19	0	325	3	675	96.9%	3.1%		
9:45 AM	6	14	2	21	248	5	5	28	15	0	298	3	645	97.1%	2.9%		
0:00 AM	5	14	3	17	249	6	10	24	14	0	281	5	628	97.3%	2.7%		
0:15 AM	5	18	3	20	227	7	11	26	15	1	287	6	626	97.4%	2.6%		
0:30 AM	3	19	5	14	208	6	10	24	18	3	286	9	605	97.7%	2.3%		
0:45 AM	6	18	3	13	214	6	10	22	17	3	296	14	622	98.1%	1.9%		
1:00 AM	7	15	5	14	226	5	8	21	16	4	291	15	627	98.2%	1.8%		
1:15 AM	8	10	5	16	261	2	9	15	22	3	274	14	639	98.0%	2.0%		
1:30 AM	11	8	4	21	270	3	11	14	22	4	292	13	673	98.1%	1.9%		
1:45 AM	8	7	4	25	271	4	15	14	24	4	307	12	695	98.3%	1.7%		
12:00 PM	6	10	1	26	256	8	14	16	28	6	345	9	725	98.1%	1.9%		
12:15 PM	10	11	3	26	249	10	13	19	22	7	350	12	732	98.5%	1.5%		
12:30 PM	7	15	2	22	270	9	11	17	21	5	342	12	733	98.8%	1.2%		
2:45 PM	7	18	2	18	275	8	6	19	21	6	345	10	735	98.4%	1.6%		
:00 PM	7	16	4	18	300	6	4	20	15	7	334	12	743	97.8%	2.2%		
:15 PM	2	17	3	14	302	5	3	20	13	7	350	15	751	97.3%	2.7%		
:30 PM	5	15	4	14	314	6	2	31	9	7	357	12	776	96.9%	3.1%		
:45 PM	7	15	5	18	345	5	1	27	8	6	357	12	806	96.7%	3.3%		
:00 PM	7	18	4	20	350	5	6	30	10	4	362	14	830	97.5%	2.5%		
:15 PM	8	17	5	23	374	6	10	30	15	4	379	11	882	97.8%	2.2%		
:30 PM	8	22	5	27	378	7	14	30	23	6	409	17	946	98.2%	1.8%		
:45 PM	9	23	5	25	363	11	16	35	21	7	461	19	995	98.7%	1.3%		
:00 PM	12	22	6	18	390	10	15	34	22	6	468	15	1018	98.8%	1.2%		
:15 PM	11	28	6	17	395	12	16	37	23	6	493	14	1058	98.5%	1.5%		
:30 PM	10	22	6	18	400	10	14	35	20	6	480	13	1034	98.7%	1.3%		
:45 PM	8	24	7	24	417	9	16	30	27	11	440	12	1025	98.6%	1.4%		
:00 PM	5	27	5	27	395	10	13	36	30	11	450	15	1024	98.6%	1.4%		
:15 PM	5	24	5	28	399	8	8	42	26	12	442	13	1012	99.1%	0.9%		

4:30 PM	6	28	4	23	426	9	6	39	26	11	448	11	1037	99.0%	1.0%		I
4:45 PM	6	27	5	20	425	10	4	42	32	7	485	9	1072	99.3%	0.7%		
5:00 PM	9	26	5	18	454	8	4	36	31	7	491	13	1102	98.9%	1.1%		
5:15 PM	10	26	3	18	445	10	9	31	35	7	501	16	1111	99.2%	0.8%	0.97	PM Peak
5:30 PM	9	25	3	22	416	11	11	28	34	6	489	14	1068	99.2%	0.8%		
5:45 PM	8	20	0	17	406	9	9	28	22	8	461	15	1003	98.9%	1.1%		
6:00 PM	6	16	1	17	359	11	8	25	17	9	437	10	916	99.5%	0.5%		
6:15 PM	4	10	1	11	259	7	2	15	10	7	302	6	634	99.2%	0.8%		
6:30 PM	2	4	1	5	164	4	0	11	5	6	201	5	408	99.3%	0.7%		
6:45 PM	1	3	1	3	72	2	0	4	3	2	94	3	188	100.0%	0.0%		
Movement Total	85	230	48	218	3799	80	115	303	230	64	4548	149					Movement Total
PC %	100.00%	99.57%	100.00%	98.17%	98.26%	97.50%	100.00%	99.01%	98.70%	96.88%	98.37%	98.66%					PC %
Heavy Veh %	0.00%	0.43%	0.00%	1.83%	1.74%	2.50%	0.00%	0.99%	1.30%	3.13%	1.63%	1.34%					Heavy Veh %

6. William Street @ Lake Street 05/31/2023 7:00 AM

		William St. Southbound			Lake St. Westbound	I		William St. Northbound			Lake St. Eastbound						
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Hourly Total	PC %	Heavy Veh %	Peak Hour Factor	FILTER
7:00 AM	4	20	24	31	281	4	5	4	10	8	496	22	909	94.8%	5.2%		
7:15 AM	7	24	33	31	319	6	6	8	14	11	455	33	947	95.8%	4.2%		
7:30 AM	7	28	41	37	339	11	4	10	23	16	465	27	1008	95.8%	4.2%		
7:45 AM	7	26	38	43	370	12	8	11	28	23	475	34	1075	96.2%	3.8%	0.97	AM Peak
8:00 AM	9	21	30	45	346	15	7	11	38	23	457	38	1040	96.3%	3.7%		
8:15 AM	7	18	26	54	332	13	12	9	37	20	430	34	992	96.5%	3.5%		
8:30 AM	8	16	23	56	297	9	16	8	34	15	410	35	927	96.7%	3.3%		
8:45 AM	7	17	21	60	269	8	16	7	35	12	373	35	860	95.9%	4.1%		
9:00 AM	4	17	29	72	265	5	18	8	36	9	378	37	878	96.1%	3.9%		
9:15 AM	6	17	27	69	292	5	16	8	41	12	386	37	916	96.2%	3.8%		
9:30 AM	6	19	25	72	338	4	14	12	43	12	386	48	979	96.3%	3.7%		
9:45 AM	9	20	23	72	351	6	15	19	42	12	379	55	1003	96.9%	3.1%		
10:00 AM	9	20	19	72	357	8	17	20	43	12	390	55	1022	96.7%	3.3%		
10:15 AM	7	24	23	78	359	12	14	20	46	12	408	55	1058	96.7%	3.3%		
10:30 AM	7	19	25	72	364	15	17	17	47	17	390	50	1040	96.1%	3.9%		
10:45 AM	4	20	30	63	399	17	15	9	47	19	414	46	1083	96.5%	3.5%		
11:00 AM	4	24	31	47	419	14	14	7	40	20	434	47	1101	96.8%	3.2%		
11:15 AM	5	20	40	45	443	12	18	6	43	22	447	49	1150	97.0%	3.0%		
11:30 AM	6	23	39	45	444	11	15	6	45	24	470	39	1167	97.0%	3.0%		
11:45 AM	9	21	43	48	435	10	14	10	44	24	473	34	1165	96.2%	3.8%		
12:00 PM	9	16	41	53	452	10	12	9	50	27	469	30	1178	96.2%	3.8%		
12:15 PM	6	18	38	55	445	9	12	12	45	24	464	26	1154	96.5%	3.5%		
12:30 PM	6	17	39	65	444	8	13	9	40	22	493	37	1193	97.4%	2.6%		
12:45 PM	3	14	32	65	457	5	14	8	46	24	482	43	1193	97.9%	2.1%		
1:00 PM	2	15	30	62	456	7	15	8	42	22	473	42	1174	98.2%	1.8%		
1:15 PM	4	16	23	61	453	8	12	6	40	21	460	41	1145	98.0%	2.0%		
1:30 PM	2	17	21	59	461	7	17	9	40	21	433	38	1125	97.7%	2.3%		
1:45 PM	5	17	25	57	481	5	16	10	32	18	471	35	1172	97.8%	2.2%		
2:00 PM	7	16	30	58	481	7	15	12	30	17	475	42	1190	97.7%	2.3%		
2:15 PM	8	17	32	53	486	7	18	13	34	26	480	46	1220	97.9%	2.1%		
2:30 PM	13	14	35	42	503	8	14	13	42	33	491	42	1250	97.8%	2.2%		
2:45 PM	14	20	33	47	498	8	14	10	39	30	496	45	1254	97.9%	2.1%		
3:00 PM	12	20	29	47	526	6	15	8	42	32	509	43	1289	97.9%	2.1%		
3:15 PM	14	20	31	46	544	11	14	10	37	29	506	34	1296	98.1%	1.9%		
3:30 PM	9	20	32	44	539	13	14	10	29	23	525	43	1301	98.2%	1.8%		
3:45 PM	5	17	39	36	539	15	16	12	35	29	523	37	1303	98.3%	1.7%		
4:00 PM	6	19	40	30	546	16	15	13	30	35	543	34	1327	98.2%	1.8%		
4:15 PM	4	21	38	28	522	16	12	9	34	36	567	40	1327	98.0%	2.0%		

4:30 PM	5	21	36	27	519	15	10	10	31	34	586	34	1328	98.0%	2.0%		
4:45 PM	6	18	31	21	524	14	6	12	26	33	607	31	1329	98.3%	1.7%	0.93	PM Peak
5:00 PM	10	14	30	21	501	13	3	11	25	31	627	27	1313	98.4%	1.6%		
5:15 PM	9	8	28	16	511	7	3	14	15	29	658	29	1327	98.6%	1.4%		
5:30 PM	11	7	33	16	484	7	2	13	13	32	643	24	1285	98.6%	1.4%		
5:45 PM	13	6	31	18	460	9	2	10	10	30	605	23	1217	98.4%	1.6%		
6:00 PM	8	8	30	14	433	7	3	10	6	27	573	21	1140	98.4%	1.6%		
6:15 PM	6	6	24	12	309	6	2	6	5	20	407	10	813	98.3%	1.7%		
6:30 PM	3	4	12	7	209	4	1	3	3	12	264	5	527	98.1%	1.9%		
6:45 PM	0	4	6	3	98	1	1	1	1	6	142	2	265	98.5%	1.5%		
Movement Total	84	210	363	552	5063	112	139	121	392	263	5824	438					Movement Total
PC %	97.62%	98.57%	98.35%	98.01%	97.16%	97.32%	99.28%	98.35%	98.98%	99.24%	96.72%	99.54%					PC %
Heavy Veh %	2.38%	1.43%	1.65%	1.99%	2.84%	2.68%	0.72%	1.65%	1.02%	0.76%	3.28%	0.46%					Heavy Veh %





Rail Crossing Inventory



U. S. DOT CROSSING INVENTORY FORM

DEPARTMENT OF TRANSPORTATION

FEDERAL RAILROAD ADMINISTRATION OMB No. 2130-0017

Instructions for the in Form. For private hig pedestrian station gr	ghway-rail	l grade crossir	ngs, complete	e the Heade	er, Parts I	and II, a	and the Su	ubmission I	Information	n section. For p	public pathwa	ay grade cro	ossings (including
Parts I and II, and the I, and the Submission updated data fields.	e Submissio on Informa	on Information section.	n section. For For changes	grade-sepa to existing (arated high data, com	nway-rail plete the	l or pathwa e Header,	ay crossing Part I Iten	gs (including ns 1-3, and	g pedestrian sta I the Submissio	ntion crossings on Information	s), complete on section, ir	the Header, Part
A. Revision Date (MM/DD/YYYY)	В	B. Reporting A Railroad		C. Rea	son for Up		elect only o			☐ No Train	☐ Quiet	D. DO	OT Crossing
07 / 05 / 2023		⊒ Kaliroau ≚ State	□ Transi	Data		Crossing Date	g	Change ir	n Primary	Traffic	Zone Upda		•
	\perp					Change	Only O	perating R	R .	Correction			
1. Primary Operating	D-ileand		P	art I: Loc			assificat	ion Into	rmation				
WISCONSIN CEN						INOIS				3. County COOK			
4. City / Municipality	='			/Road Name		Number	I <u></u>			6. Highway Ty	pe & No.		
	FOREST			Road Name)	•			k Number)		FAU2753		B.	
7. Do Other Railroad: If Yes, Specify RR	s Operate	a Separate 11	ack at Crossii	ng? ⊔ Yes	L X No		Do Other I If Yes, Spec		Operate Ov	ver Your Track a	it Crossing?	∐Yes LXIN	lo
9. Railroad Division o	or Region		10. Railroad	Subdivision	or District	t	11. Brar	nch or Line	Name		12. RR Miler	post 012.390	1
□ None CHICA	□ None CHICAGO □ None WAUKESHA □ None MAIN (prefix) (nnnn.nnn) (suffix)												
13. Line Segment 14. Nearest RR Timetable 15. Parent RR (if applicable) 16. Crossing Owner (if applicable) Station 17. Parent RR (if applicable)													
SC00052044 RIVER FOREST DN/A CN DN/A WC													
18. Crossing Purpose 19. Crossing Position 20. Public Access 21. Type of Train 22. Average Passenger Implication													
■ Public	_	way way, Ped.	RR Und		☐ Yes		SSIIIg)	U	it ity Passenge		l Use Transit		han One Per Day
☐ Private	☐ Statio	• •	☐ RR Ove	<u>r </u>	□ No	,		☐ Comm		☐ Tourist	:/Other	☐ Numb	er Per Day 0
23. Type of Land Use ☐ Open Space	e 	ጃ Resid	dential	☐ Commer	rcial	☐ Indus	strial	☐ Institu	utional	☐ Recreatio	nnal 🗆	RR Yard	
24. Is there an Adjace							Zone (FR.			- Necreasi	1161	IIII TUTU	
□ Yes ■ No If	Ves Provi	de Crossing Nu	umher			□No□	□ 2 4 Hr [□ Partial	™ Chicag	o Excused	Date Estab	nlished	
26. HSR Corridor ID	163, 1101		ude in decima	l degrees		_			al degrees	O Excused		Lat/Long So	ource
	■ N/A	/WGS84	std: nn.nnnn	_{nnn)} 41.8	99592	(M	VGS84 std:	-nnn.nnn	_{nnnn)} -87.8	325936	x /	Actual \square] Estimated
30.A. Railroad Use	*		<u> </u>					tate Use					230
30.B. Railroad Use								tate Use '	LA I/LON	NG PER ICC-S	SL 2018		
30.C. Railroad Use	*						31.C. St	tate Use '	*				
30.D. Railroad Use								tate Use	7/5/23-A/		Truck Upda	ited per IDC	OT March 2023 Y
32.A. Narrative (Rai	Iroad Use)	*					32.B. N	l arrative (S	State Use) *	*ICC 7/5/23 -	Updated AA	NDT, Year,	% Truck, State N
33. Emergency Notifi	cation Tel	lephone No. (posted)		oad Contac	t (Telep	hone No.)			35. State Con	, ,	one No.)	
800-465-9239				888-888						217-785-902	<u>2</u> 6		
				F	Part II: F	≀ailroa	ad Infor	mation					
1. Estimated Number 1.A. Total Day Thru T				Trains	1 C Total	Cuitchir	- Trains	1 D To	tal Trancit I	T-nine	1.E. Check if	f Loss Than	
1.A. Total Day Thru T (6 AM to 6 PM) 5	rains		otal Night Thru to 6 AM) 	J Trains	1.C. Total S	SWITCHIN	g rrains	0	otal Transit T	rains	One Movem	r Less Than nent Per Day trains per we	
2. Year of Train Count	t Data (YY	YY)		Speed of Tr			60	<u> </u>					
2016				A. Maximun B. Typical Sp					, 1	_ to 60			
4. Type and Count of	Tracks			<u> </u>			<u> </u>	<u>r /</u>					
	Siding 0		ard 0	Transit	0	Ind	dustry 0						
5. Train Detection (M ■ Constant Warr		,,	Potestion [□AFO □ P	PTC 🗆 DO		Other \square	None					
6. Is Track Signaled?		☐ IVIULIOITE	Jeternon -		7.A. Event			None			7.B. Remo	ote Health M	onitoring
☐ Yes 🗷 No					☐ Yes	□ No						□ No	Ü

U. S. DOT CROSSING INVENTORY FORM

A. Revision Date (MM/DD/YYYY) 07/05/2023				PAGE 2 D. Crossing Inventory Number (7 char.) 689627S								
Part III: Highway or Pathway Traffic Control Device Information												
1. Are there 2. Types of Passive Traffic Control Devices associated with the Crossing												
Signs or Signals?	2.A. Crossbucl	2.B. ST	3. STOP Signs (R1-1) 2.C. YIELD Sig			2.D. Advan	nce Warning	ce Warning Signs (Check all that appl			ly; include count) 🖪 None	
x Yes □ No	Assemblies (co	ount) (count) 0		(count) 0		□ W10-1 <u>0</u> W10-2 <u>0</u>				\square W10-11 0 \square W10-12 0		
2.E. Low Ground Clearance Sign 2.F. Pavement			Markings		2.G. Chan			2.H. EXEMP	T Sign			
(W10-5) $\square \text{ Yes } (count 0)$		FF Cham Lines	□D	Dumamia Envalona		Devices/Medians ☐ All Approaches ☐ Medi		(R15-3)	' '			
☐ Yes (count o) ■ No		■ Stop Lines ■ RR Xing Sym	•	□Dynamic Envelope s □ None			roach 🗆 None		ĭ No □ No			
2.J. Other MUTCD S	Signs	☐ Yes 🗷 N		2.K. Private Crossing 2.L. LED Enhanced Signs (if private)			nhanced Signs	(List types)				
Specify Type		Count 0			Signs (if p	Signs (ij private)						
Specify Type		Count 0			☐ Yes ☐] No						
Specify Type Count 0												
3. Types of Train Activated Warning Devices at the Grade Crossing (specify count of each device for all that apply) 3.A. Gate Arms 3.B. Gate Configuration 3.C. Cantilevered (or Bridged) Flashing Light 3.D. Mast Mounted Flashing Lights 3.E. Total Count o											D. F. Total Count of	
3.A. Gate Arms (count)	3.B. Gate Configuration		Structures		<i>jed)</i> Flashing Light		(count of	ning Lights		B.E. Total Count of lashing Light Pairs		
(county	■ 2 Quad	☐ Full (Barrier)	Over Traffi	` ′ _			☐ Incandescent ☐			5 5		
Roadway 2	☐ 3 Quad	Resistance		•	□ LED		☐ Back Li	ghts Included	☐ Side			
Pedestrian 0	☐ 4 Quad	☐ Median Gate	s Not Over T	raffic Lane 0					Included			
3.F. Installation Dat	3.G. Wayside H	3.G. Wayside Horn				3.H. Highway Traffic Signals Controlling 3.I. Bells						
Active Warning Dev		/) Not Required	☐ Yes Inst	YYY)		Cros	•		(count)			
	⊔	Not Required	™ No	, , , , , , , , , , , , , , , , , , , ,				- ☐ Yes ☑ No 4				
3.J. Non-Train Active Warning □ Flagging/Flagman □ Manually Operated Signals □ Watchman □ Floodlighting □ None 3.K. Other Flashing Lights or Warning Devices Count 0 Specify type												
4.A. Does nearby Hwy 4.B. Hwy Traffic Signal 4.C. Hwy Traffic Signal Preemption 5. Highway Traffic Pre-Signals 6. Highway Monitoring Device									ing Devices			
Intersection have	Interconr			☐ Yes ☐ I				,			•	
Traffic Signals? ☑ Not Interconnected ☐ For Traffic Signals ☐			□ Simultanoo	☐ Simultaneous Storage Dista				☐ Yes - Photo/\ □ Yes – Vehicle			•	
□ Yes 🗷 No		arning Signs						nce * $\frac{0}{0}$				
Part IV: Physical Characteristics												
1. Traffic Lanes Crossing Railroad One-way Traffic 2. Is Roadway/Pathway 3. Does Track Run Down a Street? 4. Is Crossing Illuminated? (Street												
Number of Lanes		■ Two-way Tra□ Divided Traff		Pav <mark>ed?</mark> Yes No			□ Yes 🛚	Yes ■ No nearest r			hin approx. 50 feet from ail) □ Yes No	
5. Crossing Surface (on Main Track, multiple types allowed) Installation Date * (MM/YYYY) / Width * Length *												
□ 1 Timber □ 2 Asphalt □ 3 Asphalt and Ti <mark>mber □ 4 Concrete □ 5 C</mark> oncrete and Rubber □ 8 Rubber □ 7 Metal □ 8 Unconsolidated □ 9 Composite □ 10 Other (<i>specify</i>)												
6. Intersecting Roadway within 500 feet?				7. Smallest Crossing Ar			ngle		8. Is Cor	ommercial Power Available? *		
☐ Yes 🗷 No	If Yes, Approxim	et)	□ 0° − 29° □ 30° -				-59° ⅓ 60°-90°			¥ Yes □ No		
Part V: Public Highway Information												
1. Highway System 2. Functional Classification of Road at Crossing 3. Is Crossing on State Highway 4. Highway Spec										hway Speed Limit		
- (a)			☐ (0) Rural 🖪 (1) Urban				System?			MPH		
, ,	tate Highway Sy Nat Hwy Systen	(1) Interstate	Interstate Image: (5) Major Collector Other Freeways and Expressways				Yes □ No □ Posted □ Statutory Statutory					
	al AID, Not NHS	` '	ther Principal Arterial				5. Linear Referencing System (LRS Route ID) * 016 92753 000000					
☐ (08) Non-Federal Aid ☐ (4) Minor Arterial ☐ (7) Local 6. LRS Milepost * 2.12												
7. Annual Average Daily Traffic (AADT) 8. Estimated Year 2022 AADT 11600 3				d Percent Trucks 9. Regularly Used by School Bu Yes ■ No Average Nu			_			Emergency Services Route es □ No		
Submission Information - This information is used for administrative purposes and is not available on the public website.												
Submitted by			Organizat					Phone		Dat		
Public reporting burden for this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. According to the Paperwork Reduction Act of 1995, a federal												
sources, gathering a agency may not cor	_			•							•	
displays a currently valid OMB control number. The valid OMB control number for information collection is 2130-0017. Send comments regarding this burden estimate or any other aspect of this collection, including for reducing this burden to: Information Collection Officer, Federal Railroad Administration, 1200 New Jersey Ave. SE, MS-25												
Washington, DC 20	590.											





NE Quadrant Traffic Counts



