Shopiere Road

Beloit, Wisconsin

Final Report

Prepared for:



Prepared by:



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Executive Summary

The Shopiere Road corridor study evaluates traffic operations, safety, roadway access, and multimodal accommodations within the City of Beloit, Wisconsin. This report documents the methodologies, findings, and recommended mitigation strategies to improve traffic safety and facilitate acceptable traffic operations at key locations in the study area for existing-year (Year 2024) and future-year (Year 2049) conditions. A review of the existing roadway and intersection geometrics was performed to identify substandard elements along the corridor. Crash data was obtained and analyzed at study intersections and crash commonalities were identified. Traffic operations analysis was performed at key intersections along Shopiere Road to evaluate current and projected traffic conditions along the project corridor.

Alternatives for the Shopiere Road corridor were developed based on deficiencies found in the following categories: geometric site reviews of the study area, safety evaluation of the Shopiere Road corridor and the study intersections, and intersection operations analysis for the existing-year and Year 2049 horizon year. Locations with several alternatives were evaluated based on the aforementioned categories and a preferred alternative was selected based on those results The following describes recommendations for the Shopiere Road corridor and key intersections:

Shopiere Road (Prairie Avenue to Inman Parkway)

- It is recommended that the Shopiere Road cross-section be updated to provide a three-lane cross-section (two travel lanes and a TWLTL) from Prairie Avenue to south of Inman Parkway. This alternative improves both safety and mobility as the TWLTL will allow left-turning vehicles to store and complete their turning movement to and from Shopiere Road. The three-lane cross-section will also reduce travel speeds as motorists will not have the ability to use multiple travel lanes to maneuver around slower-moving traffic; rather, traffic must use a single travel lane which can restrict speed variances, particularly faster travel speeds, since vehicle passing is prohibited. This improvement can be accommodated within the existing roadway cross-section and right of way, minimizing construction costs and right of way acquisition.
- It is recommended that multimodal accommodations, such as sidewalks, multi-use paths, and cycle tracks, be implemented along Shopiere Road. Providing these elements will enhance bike/ped accommodations along the corridor and provide a vital connection between northeast Beloit and the downtown area. While it is likely that right of way may be needed in several locations to construct these improvements, it is anticipated to be approximately five to ten feet wide for the length of a parcel and no buildings are anticipated to be impacted by these improvements.
- It is recommended that other treatments be implemented to inform motorists of the speed limit in their area. Elements such as roadway pavement markings and speed feedback signs will help reinforce the regulatory speed limit expected by motorists. These features would be particularly helpful in areas such as residential neighborhoods and near the OLA church and school campus.

Shopiere Road, Prairie Avenue / Bayless Avenue / Moccasin Trail intersection ("Triangle")

- In the short-term, it is recommended that the Triangle intersection be modified with access restrictions and a realignment of Moccasin Trail (Alternative 1d). These access restrictions will improve safety by eliminating non-intersection turning movements within the physical and functional intersection area which improves driver expectations. Removing access to Bayless Avenue and realigning Moccasin Trail increases the intersection spacing from Prairie Avenue and Shopiere Road intersection, improving traffic operations and vehicle storage capabilities without interference from closely spaced upstream intersections.
- In the long-term, it is recommended that the intersection control be upgraded to a roundabout (Alternative 2). Roundabouts improve traffic safety by eliminating head-on and angle crashes as well as reduces travel speeds due to the roundabout design. The peanut-style roundabout shown for Alternative 2 requires significant right of way to implement; therefore, the roundabout design should be considered as land uses and parcels change or develop in the future.

Shopiere Road, Cranston Road intersection

- The recommended three-lane cross-section of Shopiere Road will improve the existing geometric concerns of trapping lanes, driveway access, and left turn visibility at the intersection. The realignment of the travel lanes and the reconfiguration of the roadway cross-section will allow for these deficiencies to be addressed without additional right of way or widening of the roadway cross-section.
- It is recommended that traffic signal clearance intervals be examined with the lane configuration change for adherence by motorists.

Shopiere Road, Hart Road intersection

- In the short-term, it is recommended that no intersection control or geometric changes be made to the intersection as the recommended three-lane cross-section will help Hart Road traffic enter the intersection in a safer manner.
- In the long-term, consideration should be given to restrict or eliminate this intersection once Inman Parkway is extended. With the roadway extension, it is likely that traffic currently using Hart Road will divert to Inman Parkway, significantly reducing the demand for this approach. Restricting or eliminating this intersection would remove an intersection along a horizontal curve, further improving traffic safety in this area.

Shopiere Road, Inman Parkway intersection

• In the short-term, it is recommended to convert the existing side-road stop intersection control to an all-way stop control (Alternative 1). This improvement will improve traffic safety for Inman Parkway motorists as they will be able to enter the intersection while Shopiere Road is under stop-sign control. In addition, travel speeds in the intersection area will be reduced due to the stop-control provision for all intersection approaches.

• In the long-term, both a traffic signal and roundabout are viable alternatives for implementation. Both intersection control strategies help improve traffic operations and traffic safety when compared to the existing side-road stop control. In addition, both alternatives can be constructed in a manner that limits the impacts if the proposed Inman Parkway extension occurs. However, since it is unknown when this roadway extension will take place, a preferred intersection control is not necessary at this time.

Shopiere Road, I-39/90 northbound interchange ramp

- In the short-term, it is recommended that no geometric or intersection control improvements be made to the intersection. While the exit ramp operates at LOS E during the weekday morning peak hour, the number of vehicles traveling through the intersection do not meet warrants for any intersection control upgrades. In addition, the anticipated queues do not impact traffic operations at the interchange diverge area.
- In the long-term, it is recommended that the intersection be converted to a roundabout to accommodate anticipated growth and increasing traffic volumes at this location. The roundabout design will promote slower travel speeds through the intersection and will not require multiple travel or turn lanes to implement.

Other recommendations

In addition to the recommendations previously discussed, there are other locations in the study area that would benefit from improvements, but the improvement is more systemic (e.g., reviewing traffic signal phasing / timing) or the improvement does not have a comparable alternative to evaluate against it. The following describes other recommendations to improve safety, mobility, access, and multimodal accommodations along the Shopiere Road corridor:

- It is recommended that crosswalk pavement markings be monitored and refreshed to maintain their visibility for motorists and bicyclists/pedestrians.
- It is recommended that access management strategies along Shopiere Road be implemented as land uses change and parcels become developed. This improvement will allow for safe and efficient traffic operations along Shopiere Road and help identify locations for proper access driveway design.
- It is recommended that traffic signal equipment is reviewed for improved visibility and clarity for motorists. Examples of this include inspecting and adding backplates (or retroreflective backplates) to each signal head, checking the placement of overhead signal heads over each through or turn lane, and examining the placement of each signal head to ensure that motorists can clearly see them without obstruction. In addition, traffic signal timing plans should be reviewed to determine appropriate green times, clearance intervals, and other phasing parameters for safe, efficient travel through the intersection.
- It is recommended that right of way be preserved along Shopiere Road from Inman Parkway to I-39 / 90 to accommodate any roadway widening, such as a left-turn lane, which may be needed to accommodate development of parcels in this area.

1 Introduction

Shopiere Road is a vital, minor arterial in the City of Beloit as it connects residents, commuters, and freight from Henry Avenue and eastern sections of the city with the I-39/90 freeway corridor. Within the study area, Shopiere Road travels through several distinct environments and its roadway features reflect these surroundings. From Calumet Avenue to Cranston Road, Shopiere Road is a two-lane undivided roadway that is a main north-south route for several residential neighborhoods. From Cranston Road to I-39/90, Shopiere Road is primarily a four-lane undivided roadway with minimal direct access to residential neighborhoods and industrial properties. The Shopiere Road corridor provides some multimodal accommodations such as sidewalks and crosswalks, but these elements are disjointed and do not connect across the entire corridor, creating continuity issues for its users. Shopiere Road provides limited opportunities for bicyclists and pedestrians to cross safely and comfortably – particularly north of Cranston Road as there are no bicycle or pedestrian facilities along Shopiere Road north of Cranston Road other than unmarked shoulders from Murphy Woods Road to I-39/90. In addition, Transit Routes 2, 3, and 4 utilize portions of Shopiere Road and have a transfer station near the western portion of the study corridor at the Piggly Wiggly supermarket.

1.1 Study Purpose

The purpose of this corridor study is to provide recommendations that the City of Beloit, Rock County, and Stateline Area Transportation Study (SLATS MPO), in coordination with the Wisconsin Department of Transportation (WisDOT) can incorporate into a roadway design project for construction. In addition, intersection recommendations can be developed into a Highway Safety Improvement Program (HSIP) funding application to address identified safety issues along the corridor. The goals of this study are listed below:

- Evaluation of traffic safety, traffic operations, access, and multimodal accommodations
- Recommend improvements to the corridor to optimize safety and mobility while balancing access and multimodal needs

1.2 Study Area

The Shopiere Road corridor study area runs from Prairie Avenue to the I-39/90 northbound interchange ramp terminals. Key intersections within the study area include the following:

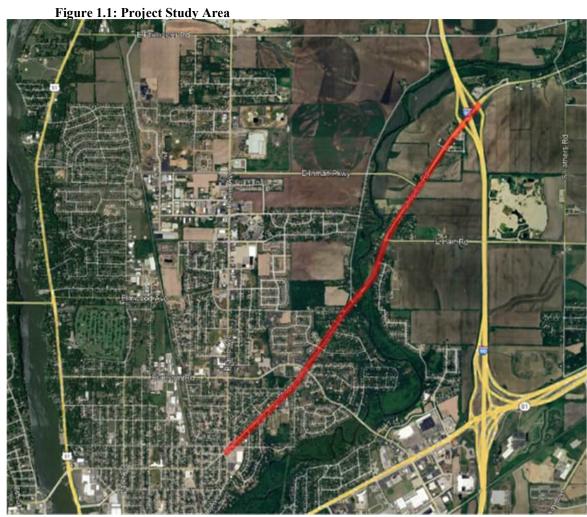
- Prairie Avenue
- Bayliss Avenue
- Moccasin Trail
- Cranston Road
- Murphy Woods Road
- Creek Road
- Hart Road
- Inman Parkway (CTH BT)
- I-39/90 southbound ramps
- I-39/90 northbound ramps

The general study area limits are illustrated in Figure 1.1.

1.3 Study Approach

This study was completed utilizing industry accepted publications such as the Institute of Transportation Engineers (ITE) *Trip Generation Manual*, WisDOT's *Facilities Development Manual* (FDM), AASHTO's *Policy of Geometric Design of Highways and Streets*, and FHWA's *Manual on Uniform Traffic Control Devices* (MUTCD). These design standards aid in determining substandard components within the existing roadway and helped develop alternatives to address the concerns.

Additionally, the City and SLATS MPO requested public input during the project to engage the public, local stakeholders, and policy makers help confirm problem locations, identify needs and desires for consideration, and provide feedback about potential alternatives within the study area. Three public information meetings (PIMs) are planned to be held throughout the project to allow attendees to provide direct feedback on existing concerns, proposed alternatives, and the preferred alternative.



Source: Google

2 Existing Area Conditions

2.1 Roadway Transportation System

Descriptions of major area roadways within the study area are summarized below. Roadway and intersection characteristics are illustrated in **Figure 2.1.**

Shopiere Road

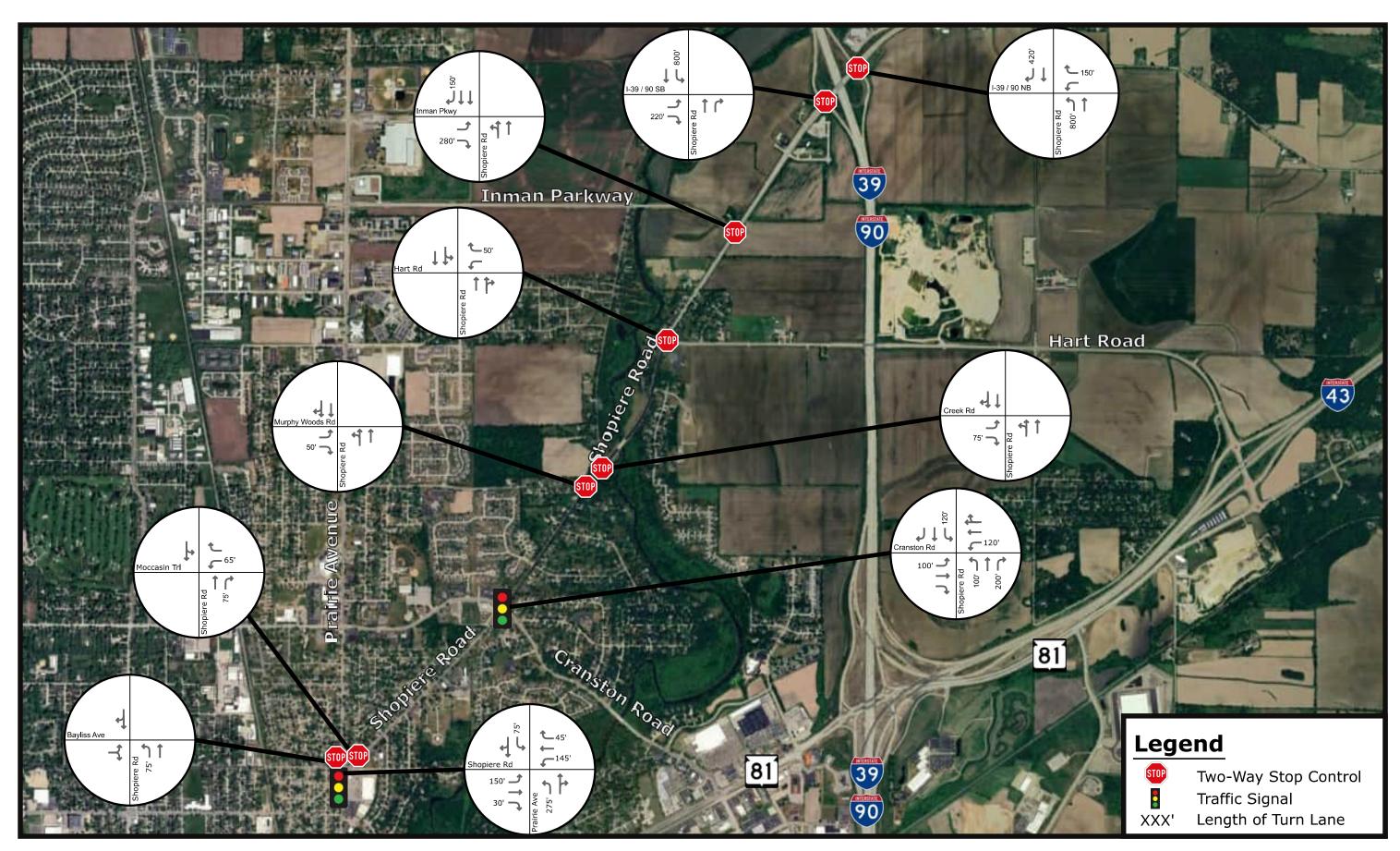
Shopiere Road is a minor arterial that runs at a northeast/southwest diagonal and connects the Henry Avenue and eastern areas of Beloit, through the Town of Turtle, to I-39/90. For purposes of this study, Shopiere Road will be referred as a north-south roadway. From Prairie Avenue to Cranston Road, Shopiere Road is a two-lane undivided roadway; from Cranston Road to I-39/90, the roadway expands to primarily a four-lane undivided section. The roadway cross-section width (including curb and gutter) along Shopiere Road varies, as illustrated below:

- Prairie Avenue to Cranston Road: 44 feet pavement width (two, 12-foot travel lanes with 10-foot parking lanes on each side)
- Cranston Road to Murphy Woods Road: 40 feet pavement width (four, 10-foot travel lanes)
- Murphy Woods Road to north of Inman Parkway: 60 feet pavement width (four, 12-foot travel lanes with 6-foot shoulders on each side)
- North of Inman Parkway to I-39/90: 96 feet pavement width (four, 12-foot travel lanes, 10-foot shoulders on each side, and a 28-foot raised median between the travel lanes)

Two signalized intersections are located along the Shopiere Road study area: Prairie Avenue and Cranston Road. All other side-street intersections are stop-controlled with Shopiere Road functioning as the "major" (i.e., non-stopping) roadway. Exclusive turn lanes are provided along Shopiere Road at Prairie Avenue, Moccasin Trail, Cranston Road, Inman Parkway, and the I-39/90 interchange ramps. The posted speed limit along Shopiere Road varies across the corridor: 25 miles per hour from Prairie Avenue to south of Cranston Road, 35 miles per hour from south of Cranston Road to north of Hart Road, and 45 miles per hour from north of Hart Road to I-39/90. Other than unmarked shoulders north of Murphy Woods Road, bicycle accommodations are not present along Shopiere Road while sidewalks are present at the following locations:

- Prairie Avenue / Moccasin Trail / Bayless Avenue (referred as the "Triangle" intersection) sidewalks are generally present on both sides of the roadway
- The south side of Shopiere Road from the Triangle to Schuster Drive
- At the Cranston Road intersection, sidewalks are present along both sides of Cranston Road and the west side of the Shopiere Road northbound approach

Beloit Transit Route 2 runs along Shopiere Road south of Prairie Avenue while Routes 3 and 4 run north of Prairie Avenue to Cranston Road. The Piggly Wiggly Transfer Point is located in the southeast quadrant of the Prairie Avenue intersection, connecting Transit Routes 2, 3, 4, and 6. August 2023 traffic counts along Shopiere Road indicate a daily traffic volume of 7,900 vehicles per day (vpd) north of Moccasin Trail; 8,100 vpd north of Cranston Road; 6,400 vpd north of Creek Road; 7,000 vpd north of Inman Parkway; and 1,600 vpd north of I-39/90.



Existing Intersection Characteristics

Prairie Avenue

Prairie Avenue is a north-south principal arterial that connects Beloit to Janesville and serves many neighborhoods, businesses, and farms within and between the two communities. Prairie Avenue is a two-lane undivided roadway with on street parking north of Shopiere Road. At its signalized intersection with Shopiere Road, exclusive left turn and shared through/right-turn lanes are provided. Sidewalks are present on the west side of Prairie Avenue and on street parking is permitted on both sides of Prairie Avenue outside the Shopiere Road intersection area. Beloit Transit Route 4 runs north of Shopiere Road while Routes 2 and 6 run south of Shopiere Road. Prairie Avenue has a posted speed limit of 25 miles per hour south of Shopiere Road and 30 miles per hour north of Shopiere Road.

Cranston Road

Cranston Road is an east-west principal arterial roadway that connects US 51 to WIS 81 and serves as a vital east-west route in the City of Beloit. West of Shopiere Road, Cranston Road is a four-lane undivided roadway; east of Shopiere Road, Cranston Road transitions to a two-lane roadway with painted median. At its signalized intersection with Shopiere Road, exclusive left-turn and right-turn lanes are provided on Cranston Road. Sidewalks are provided on both sides of Cranston Road and an off-street multi-use path is present on the south side of Cranston Road, east of Shopiere Road. Beloit Transit Route 3 runs along Cranston Road east of Shopiere Road while Route 4 runs west of Shopiere Road. Parking is prohibited along Cranston Road and the roadway has a posted speed limit of 35 mph.

Inman Parkway

Inman Parkway, also known as Rock County Trunk Highway BT, is an east-west, two-lane, minor arterial that connects US 51 to County Trunk Highway S / Shopiere Road and provides an east-west connection on the northern parts of the city and town. At its unsignalized intersection with County Trunk Highway S / Shopiere Road, exclusive left-turn and right-turn lanes are provided on BT and all movements from Inman Parkway are under stop control. No exclusive left-turn lanes are provided on County Trunk Highway S. Bicycle and pedestrian accommodations are not present along Inman Parkway near Shopiere Road, and the roadway has a posted speed limit of 45 miles per hour.

Murphy Woods Road

Murphy Woods Road is an east-west, two-lane collector roadway that provides a connection from residential areas to north-south arterials in the city. At its unsignalized intersection with Shopiere Road, the wide intersection approach on Murphy Woods Road allows motorists to create de facto left-turn and right-turn lanes. All movements from Murphy Woods Road are under stop-sign control. No multimodal accommodations are present along Murphy Woods Road and the roadway has a posted speed limit of 25 miles per hour.

Creek Road

Creek Road is a north-south, two-lane collector roadway that generally parallels Shopiere Road and provides access to residential areas in northeast Beloit. At its unsignalized intersection with Shopiere Road, the wide intersection approach on Creek Road allows motorists to create de facto left-turn and right-turn lanes. All movements from Creek Road are under stop-sign control. No multimodal accommodations are present along Creek Road and the roadway has a posted speed limit of 25 miles per hour.

Hart Road

Hart Road is an east-west, two-lane collector roadway that connects Shopiere Road to the I-43 ramps. At its unsignalized intersection with Shopiere Road, exclusive left-turn and right-turn lanes are provided on Hart Road and all movements from Hart Road and under stop-sign control. No multimodal accommodations are provided along Hart Road and the roadway has a posted speed limit of 40 miles per hour.

Bayliss Avenue and Moccasin Trail

Bayliss Avenue and Moccasin Trial are east-west local streets that serve residential neighborhoods. Bayliss Avenue runs west of Prairie Avenue while Moccasin Trail runs east of Shopiere Road. At its intersection with Prairie Avenue, Bayliss Avenue does not provide exclusive turn lanes and all movement are under stop-sign control. At its intersection with Shopiere Road, Moccasin Trail provides exclusive left-turn and right-turn lanes, and all movements are under stop-sign control. On-street parking is provided on both sides of both roadways. Bayliss Avenue provides sidewalks on both sides of the roadway; however, Moccasin Trail does not provide any multimodal accommodations.

I-39/90 Interchange Ramps

Interstate highway 39/90 is a north-south, six-lane freeway that connects numerous major metropolitan areas in the Midwest. I-39/90 has a local, diamond-style interchange with Shopiere Road. Exclusive left-turn and right-turn lanes are provided on the exit ramps; all left-turn movements at both ramps and right-turn movements from the northbound exit ramp are under stop-sign control. The right-turn movement from the southbound exit ramp is a free-flow movement that becomes the outside through lane from southbound Shopiere Road.

2.2 Area Land Uses

For much of the study area, Shopiere Road travels through residential neighborhoods and land uses that support them. Several local retail parcels are located near the Triangle intersection such as Walgreens, Planet Fitness, a Piggly Wiggly supermarket, and several gas stations. North of Hart Road, Shopiere Road transitions to agricultural and vacant properties and a light industrial area near the I-39/90 interchange.

2.3 Planned Roadway Improvement Projects

One roadway improvement project that is planned within the Shopiere Road study area is the easterly extension of Inman Parkway. While this project has not been designed or programmed for construction, it is important to note this planned extension in the existing conditions as it may address roadway and intersection issues that currently existing along the corridor. This extension is described below:

• Inman Parkway / County Trunk Highway BT is proposed to be extended from its current terminus at Shopiere Road easterly to Winchester Drive on the City's east side near the I-43 and I-39/90 system interchange. This extension will provide a more direct connection between the City's north side and the Milwaukee Road corridor. The Inman Parkway intersections with Shopiere Road and Hart Road will be improved to accommodate traffic volumes at these locations.

2.4 Data Collection Plan

Data collection efforts focused on gathering and organizing a variety of information related to the study area. A field review of the study area was performed to gather intersection and roadway geometrics, multimodal facilities, and surrounding land uses. Traffic signal phasing and timing information within the study area was provided by the City of Beloit. Intersection turning movement counts were gathered to understand traffic operations during peak traffic periods within the study area.

Key intersections evaluated in this study were identified during the project scoping process. It was determined that intersection data collection would be conducted at the following locations:

- Shopiere Road and Prairie Avenue
- Shopiere Road and Moccasin Trail
- Prairie Avenue and Bayliss Avenue
- Shopiere Road and Cranston Road
- Shopiere Road and Murphy Woods Road
- Shopiere Road and Creek Road
- Shopiere Road and Hart Road
- Shopiere Road and Inman Parkway (CTH BT)
- Shopiere Road and I-39/90 SB ramps
- Shopiere Road and I-39/90 NB ramps

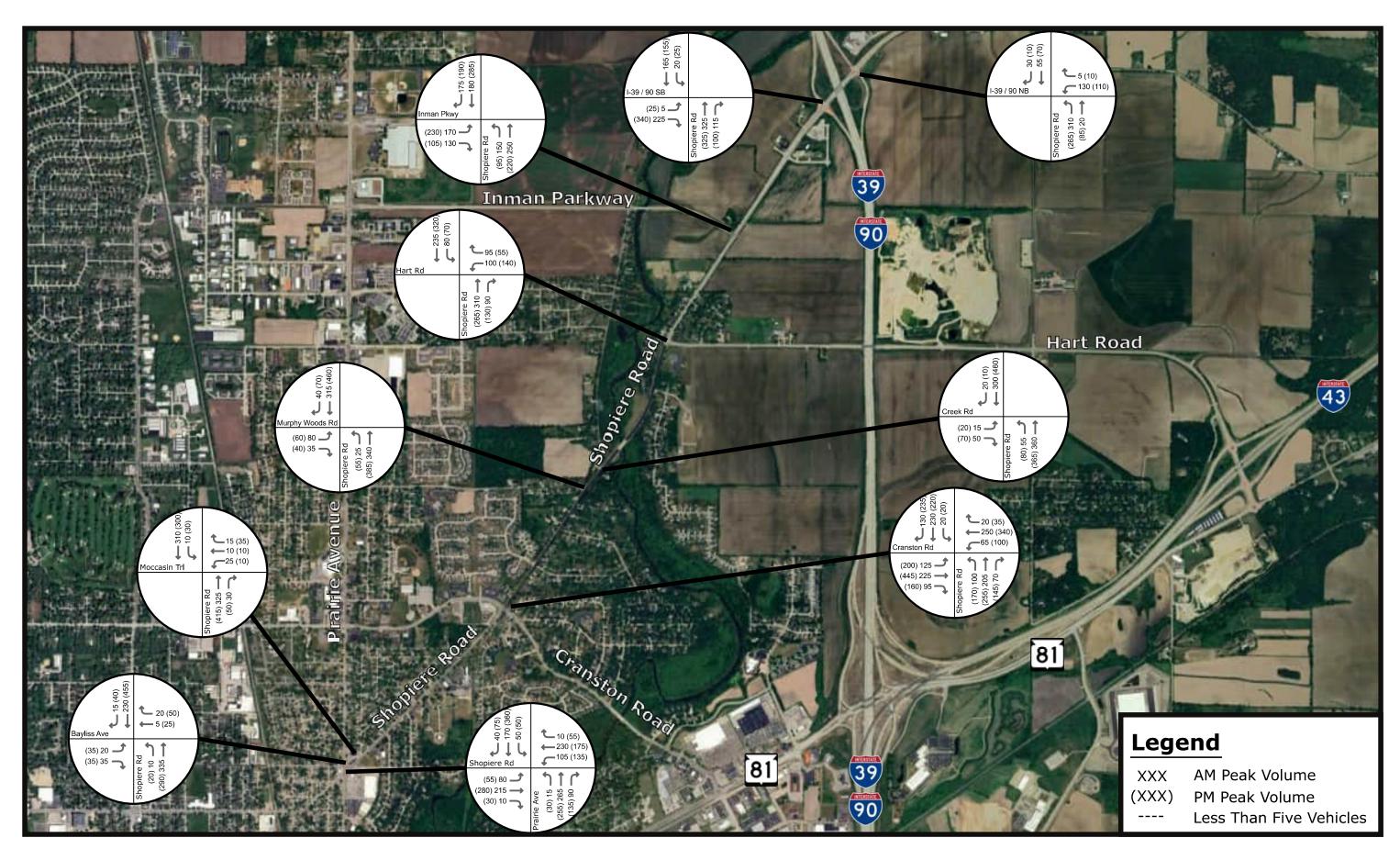
Key roadway and intersection locations are shown in Figure 2.2.

Figure 2.2: Intersection Data Collection

2.5 Peak Hour Turning Movement Counts

Source: Google

Weekday turning movement counts were collected at the above-mentioned intersections in May 2024 from 6:00 a.m. to 8:00 p.m. The counts, collected by AECOM, used video-based data collection technology. It was determined that the morning peak hour of the study area occurred from 7:15 a.m. to 8:15 a.m. and the afternoon peak hour occurred from 3:45 p.m. to 4:45 p.m. The peak-hour turning movement counts were reviewed for imbalances as counts were conducted over several days; volumes were adjusted, as needed, to provide a more balanced traffic volume data set. The existing peak hour turning movement volumes are illustrated in **Figure 2.3** while intersection turning movement count summaries for each location are provided in **Appendix A**.



Year 2024 Intersection Peak Hour Volumes

3 Corridor Safety Analysis

The existing roadway and intersection geometrics were reviewed to determine whether design standards and multimodal accommodations are met. Roadway and intersection crash data on Shopiere Road for Years 2019 through 2023 was obtained from WisDOT for review. This review investigated for crash commonalities and trends through the project corridor. The following section summarize the processes and results for the safety analysis.

3.1 Geometric Review

Roadway and intersection geometry along the corridor was reviewed and compared to national (AASHTO) and state (WisDOT Facilities Development Manual) standards. These standards provide information on recommended cross section elements, horizontal and vertical profile, site distance and intersection spacing. The following locations raise potential concerns to be considered for future improvements.

Shopiere Road Corridor

Access Density

The residential areas along the southern and central parts of the Shopiere Road study area provide numerous access points to the roadway for public streets, private driveways, and businesses. The northern portion of the study area becomes more rural with fewer access points provided. An access review of the corridor study area found that Shopiere Road has 148 total access points over 3.4 miles, equating to a corridor access density of approximately 43.5 access points per mile. From Prairie Avenue to Cranston Road, the more urban portion of the corridor, the access density is 50.8 access points per mile. This equates to one access point for every 100 to 120 feet. This access density falls in line with standard guidance of access density for urban arterial roadways.

Travel Speeds

Shopiere Road from Cranston Road to the I-39/90 ramps (approximately 2.13 miles) is an undivided 4-lane roadway where the speed limit changes from 35 mph to 45 mph approximately 530 feet north of Inman Parkway as the corridor transitions from urban to rural areas. Since the geometry does not change, the roadway environment is likely not conducive for motorists to follow the 35 mph speed limit. A spot speed study was conducted in July 2024 along Shopiere Road at Rachel Terrace to understand existing travel speeds within the 35-mph speed zone. A summary of this speed study is provided in **Table 3.1**.

Table 3.1: Shopiere Road Travel Speeds, at Rachel Terrace

		,			
Direction	Posted Speed	50th	85th	10-mph	Percent Over
	(mph)	Percentile	Percentile	Pace	45 mph
		(mph)	(mph)		1
Northbound	35	41.1	45.6	37 to 46	21.8%
Southbound	35	39.8	43.7	35 to 44	13.4%
Both directions	35	40.3	45.1	35 to 44	17.3%

The results of the spot speed study indicate that the majority of northbound and southbound vehicles are traveling faster than the posted speed limit, as shown by the 50th percentile speed (the speed in which half of observed motorists travel at or below) is above the posted speed limit and the pace (the 10-mph interval in which the majority of observed motorists travel) is at and above the posted speed limit. This is anticipated given the wide roadway cross-section, relatively low traffic volume characteristics, and low-density surrounding environment indicative of a higher-speed roadway. It should be noted that the 85th percentile speed, a statistic that is commonly used to describe the upper limit of reasonable speeds of a roadway segment and is often used to set speed limits, is approximately eight to ten mph higher than the posted speed limit, meaning that the posted speed limit of 35 mph is not reflective of the speed that most drivers travel in this area, which is approximately 45 mph; moreover, the percentage of "superspeeders", or those traveling more than ten mph above the speed limit, is approximately 17 percent, or one in six observed vehicles. This reinforces the condition that motorists are comfortable traveling at faster travel speeds than the posted speed limit. These speeds are concerning for all roadway users: the faster speeds can create difficulties for motorists evaluating gaps at intersections, while bicyclists and pedestrians typically feel stressed traveling along or near these speeds. With Shopiere Road located through residential neighborhoods, this condition should be addressed.

Shopiere Road from Cranston Road to Prairie Avenue is an undivided two-lane roadway with intermittent street parking where the speed limit changes from 35 mph to 25 mph approximately 150 feet north of Chippewa Trail. Since the geometry does not change, the roadway environment may not be conducive for motorists to follow the 25 mph speed limit and may travel in a similar manner to what was observed from the spot speed study.

Skewed Intersections

Numerous skewed intersections are present along Shopiere Road. Skewed intersections occur when streets intersect at angles other than ninety degrees; while minor intersection skew may not affect safety and mobility, more significant intersection skew can create complex gap assessment situations for pedestrians, bicyclists, and motorists. Skewed intersections can also lead to increased crossing distances for pedestrians and bicyclists, higher speed turning movements by vehicles, and potentially impact sight distances. WisDOT FDM 11-25-2.8 states that intersection skews within 70 to 110 degrees are considered acceptable for intersection design. The following locations were identified as having skewed intersections, with their approximately intersection skew angle provided:

- Prairie Avenue, 45 degrees
- Crane Avenue, 45 degrees
- Vail Terrace, 45 degrees
- Schuster Drive, 45 degrees

Horizontal Curve Sight Distance

Intersection sight distance and stopping sight distance concerns may occur at horizontal curves when the roadway alignment and external obstructions (e.g., buildings/structures, vegetation, utility poles, signposts, etc.) block the view of vehicles from seeing approaching hazards. This condition typically increases crash risk due to a motorist's inability to safely react to an approaching hazard or an increase in improper gap assessment. The following intersections were identified as having a potential sight distance issue due to horizontal roadway alignment and/or other external factors:

- Murphy Woods Road
- Creek Road
- Rachel Terrace
- Hart Road
- Inman Parkway

Triangle Intersection (Shopiere Road, Prairie Avenue, Moccasin Trail, Bayliss Avenue)

Shopiere Road, Prairie Avenue, Moccasin Trail, and Bayliss Avenue converge near the southern portion of the study limits shown in **Figure 3.1**. Shopiere Road and Prairie Avenue is signal controlled while Bayliss Avenue and Moccasin Trail are stop-controlled, T-intersections. Within the physical intersection area (the space confined within the corners of the intersection), there are five driveways for the adjacent gas stations. Having driveways within the physical intersection area typically creates mobility and safety issues as numerous turning movements can occur over a very short distance and motorists are unable to inform others what specific turning movement they are about to perform. Additional business and residential driveways are present in the intersection's functional area, which is the area leading up to an intersection where motorists need to make decisions regarding turning, stopping, accelerating, exiting, merging, and weaving. This condition, too, typically creates mobility and safety issues as motorists cannot properly tell others what specific turning movements they are performing.

Observed traffic operations at the Shopiere Road and Prairie Avenue indicate that southbound motorists on Prairie Avenue waiting at Shopiere Road can block the Bayliss Avenue intersection. Southbound vehicles on Prairie Avenue may leave a gap at Bayliss Avenue to allow turning traffic to and from Bayliss Avenue to access Prairie Avenue. However, this condition increases safety risk as vehicles from Bayliss Avenue enter the physical intersection to see if it clear to continue under the assumption that stopped and approaching motorists will slow or stop for them. This is shown in **Figure 3.2**.



Figure 3.1: Shopiere Road/ Prairie Avenue/ Bayliss Avenue/ Moccasin Trail ("Triangle") Intersection





As shown in Figure 3.3, the southbound right-turn lane from Shopiere Road to Prairie Avenue is marked as right-turn only to northbound Prairie Avenue. However, vehicles were frequently observed to use this lane as a connection to westbound Bayliss Avenue, as shown in

Figure 3.4. This situation increases crash risk as motorists are performing unexpecting turning movements which Prairie Avenue motorists are not anticipating; in addition, motorists waiting to continue westbound on Bayliss Avenue may create unexpected congestion in the right-turn lane.

Figure 3.3: Shopiere Road Right Turn Slip Lane to NB Prairie Avenue



Figure 3.4: Shopiere Road Right Turn Slip Lane Illegal Through Movement to Bayliss Avenue



Cranston Road intersection

The intersection of Shopiere Road with Cranston Road provides right-turn trapping lanes on the southbound and eastbound approaches as well as a left-turn trapping lane on the westbound approach. The trapping lanes at the Shopiere Road and Cranston Road intersection are shown in Figure 3.5. A trapping lane is a geometric and operational condition where a travel lane becomes an exclusive turn lane, "trapping" the driver that wishes to continue through the intersection and forces them to make potentially sudden lane shifts and/or speed changes to merge into the through lane. This increases the crash risk for sideswipe and rear-end crashes due to these sudden lane changes.



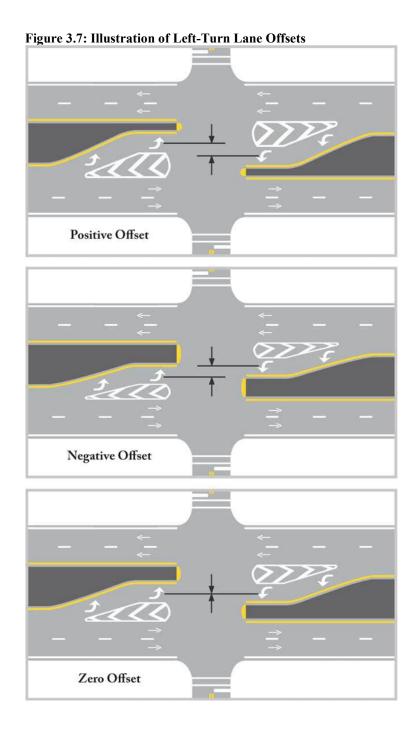
Figure 3.5: Location of Shopiere Road and Cranston Road Trapping Lanes

A driveway to Casey's gas station is located on Shopiere Road approximately 360 feet south of Cranston Road. The location of this driveway is within a lane merge for southbound Shopiere Road as shown in Figure 3.6. This situation may create driver expectancy issues as southbound motorists may travel in the outside through lane to access the driveway when it may be anticipated that traffic is merging to continue southbound on Shopiere Road.





Both sets of opposing left-turn lanes at Shopiere Road and Cranston Road do not provide positive left-turn lane offset for motorists. Opposing left-turn lanes at intersections are aligned with positive, negative, or zero offset, as shown in **Figure 3.7.** Intersections with negative left-turn lane offset can result in opposing left-turning vehicles blocking the vision of each other. This condition can increase left-turn crash risk. Intersections with zero offset can still have left-turning vehicles block the vision of opposing traffic, but typically not to the extent or frequency of a negative left-turn lane offset.



I-39/90 Southbound Ramps

The outside through lane on Shopiere Road northbound becomes a trapping right-turn lane for the I-39/90 southbound entrance ramp. As discussed earlier in this chapter, this condition can lead to sudden vehicle movements to avoid being stuck in the right-turn lane. This condition is shown in **Figure 3.8**.



Figure 3.8: Northbound Shopiere Road at I-39/90 Southbound Ramps

3.2 Multimodal Accommodations Review

A review of existing infrastructure for bicyclists and pedestrians, such as sidewalks, bike lanes, and bike paths, was performed to understand their current state. This evaluation included the physical state of the surface, associated pavement markings or other infrastructure, wayfinding or guidance elements, and connectivity.

Pedestrian Accommodations

Sidewalks are present along the following sections of Shopiere Road:

- Triangle intersection sidewalks are generally present on both sides of Shopiere Road
- The south side of Shopiere Road form the Triangle to Schuster Drive
- At the Cranston Road intersection, sidewalks are present along both sides of Cranston Road and the west side of the Shopiere Road northbound approach

The lack of continuous sidewalks along Shopiere Road, let alone any sidewalks north of Cranston Road, creates discontinuity for pedestrians and may force pedestrians to walk along the shoulders or traveled way of Shopiere Road, creating significant crash risk concerns given the travel speeds along Shopiere Road.

Pedestrian crossings were found not compliant with the Americans with Disabilities Act (ADA) requirements of appropriate curb ramp design at intersections and driveways across the entire corridor. An example of this is shown in **Figure 3.9** where the driveway crossing lacks any ramp connections.

Figure 3.9: Sidewalk Crossing on Shopiere Road at Prairie Avenue



Marked crosswalks crossing Shopiere Road are only provided at the south approach of Prairie Avenue and at Cranston Road; this is likely due to a lack of east-west sidewalk connections along many side-streets. The Triangle intersection has numerous retail uses that may attract pedestrian traffic; however, with only two marked crosswalks provided, pedestrians may travel using unmarked paths across Shopiere Road and Prairie Avenue. **Figure 3.10** shows an example of this unconventional pedestrian movement.



Figure 3.10: Pedestrian Crossing Prairie Avenue at Bayliss Avenue

Bicycle Accommodations

Marked bicycle accommodations (e.g., on-street bike lanes, multi-use paths) are not present on the Shopiere Road corridor. Existing roadway cross-section elements, such as parking lanes from Prairie Avenue to Cranston Road and paved shoulders from Hart Road to I-39/90, are provided and could be used as de facto bicycle accommodations. However, given the prevailing travel speeds of motorists and the lack of marked bicycle accommodations, it is likely that bicyclists feel uncomfortable using these features for travel.

3.3 Intersection Crash Statistics

WisDOT provided crash data (Years 2019 through 2023) for the extents of the Shopiere Road corridor. This data was reviewed for crash frequency, severity, and commonalities for key intersections and roadway segments throughout the study area. **Table 3.2** illustrates the injury type, total crashes, and intersection crash rate for each location.

As a general rule of thumb, locations with an intersection crash rate above 1.0 crashes per million entering vehicles (MEV) should be considered for further investigation and mitigation. From the table, one intersection (Cranston Road) has a crash rate above the 1.0 threshold while one intersection (Prairie Avenue / Bayliss Avenue) is just below the 1.0 crash rate threshold. The following outlines historical crash data at the key study intersections and any crash trends or commonalities identified from the crash review.

Table 3.2: Intersection Crash Statistics

Intersection		In	jury T	ype	Total	Crash Rate	
	K	K A		С	О	Crashes	(MEV)
Prairie Avenue	0	1	2	2	18	23	0.80
Bayliss Avenue	0	0	1	3	12	16	0.99
Moccasin Way	0	0	0	0	6	6	0.33
Cranston Road	0	0	5	4	32	41	1.39
Murphy Woods Road	0	0	2	0	4	6	0.34
Creek Road	0	0	1	0	1	2	0.14
Hart Road	0	1	1	0	5	7	0.42
Inman Parkway	0	2	3	2	9	16	0.75
I-39/90 Southbound	0	0	0	0	4	4	0.24
I-39/90 Northbound	0	0	2	0	4	6	0.70

Crash data obtained from UW TOPS Lab for 2019 through 2023

Shopiere Road and Prairie Avenue

At the Prairie Avenue intersection, 23 intersection-related crashes were reported in the past five years. Of those 23 crashes, 13 were rear-end crashes, 7 were angle crashes, and 3 were head-on crashes. 9 of 13 rear-end crashes involved vehicles traveling on Shopiere Road. 5 of 7 angle crashes involved a left-turning vehicle being struck by a through vehicle. 8 of 23 crashes involved a driver over the age of 65. 11 of 23 crashes occurred between 2:00 p.m. and 6:00 p.m. The majority of all crashes at this location (as well as Shopiere Road / Moccasin Trail and Prairie Avenue / Bayless Avenue) may be the result of having three roadway corridors intersect each other in a triangular pattern in which each intersection is less than 200 feet from the others. In addition, three driveways to a gas station and shopping center are located within the physical limits of these intersections while several more driveways and public streets are within the functional limit of these intersections. Having numerous intersections and driveways within a short distance increases crash risk in the area as motorists have many locations to enter and exit a roadway. This condition leads to motorists being unaware of other intentions, such as slowing or stopping to exit the traffic stream or perform a non-traditional traffic movement to travel through the area. This, in turn, increases the crash probability due to driver expectancy issues; as noted above, approximately one-third of the crashes involved motorists over the age of 65 who, typically, have slower reaction times and reduced gap assessment capabilities.

Shopiere Road and Moccasin Trail

At the Moccasin Trail intersection, six intersection-related crashes were reported in the past five years. Of those six crashes, three were angle crashes and three were rear-end crashes. 4 of 6 crashes involved a left-turning vehicle being struck. 3 of 6 crashes involved a driver over the age of 65. This intersection is part of the Shopiere Road and Prairie Avenue "triangle" intersection; possible crash factors identified at that location are applicable to this location.

K - fatal crash; A - serious injury crash; B - minor injury crash

 $C-possible \ injury \ crash \ ; \ O-property \ damage \ only \ crash$

Crash rate – crashes per million entering vehicles (MEV)

Prairie Avenue and Bayless Avenue

At the Prairie Avenue and Bayless Avenue intersection, 16 intersection-related crashes were reported in the past five years. Of those 16 crashes, six were angle crashes, six were rear-end crashes, two were single-vehicle crashes, one was a sideswipe crash, and one was a head-on crash. 5 of 16 crashes involved a driver over the age of 65. 7 of 16 crashes were identified as a hit-and-run crash. This intersection is part of the Shopiere Road and Prairie Avenue "triangle" intersection; possible crash factors identified at that location are applicable to this location.

Shopiere Road and Cranston Road

At the Cranston Road intersection, 41 intersection-related crashes were reported in the past five years. Of those 41 crashes, 15 were angle crashes, 11 were rear-end crashes, 7 were sideswipe crashes, 4 were single-vehicle crashes, and 4 were head-on crashes. 10 of 41 crashes occurred during wet or snow-covered roadway conditions. 10 of 41 crashes involved a teenage driver while 9 of 41 crashes involved a driver over the age of 65. 18 of 41 crashes occurred between 2:00 p.m. and 6:00 p.m. Five of the 11 rear-end crashes involved westbound vehicles while 3 involved southbound vehicles, 2 involved eastbound vehicles, and 1 involved northbound vehicles. Seven of 15 angle crashes involved a left-turning vehicle being struck by a through vehicle (four of the seven were westbound left-turning vehicles). Three of seven sideswipe crashes involved westbound-traveling vehicles.

All four intersection approach legs have "trapping lane" situations where a through lane becomes an exclusive turn lane at the intersection. This condition increases crash risk due to sudden lane changes or stopping/slowing as motorists attempt to merge into a through lane. All left-turn lanes have a negative or zero left-turn lane offset which can block the vision of left-turning motorists of approaching vehicles in the opposite lanes. This condition can increase crash risk for left-turning traffic as they are unaware of approaching vehicles as they complete their turn movement. It is also possible that traffic signal timing elements at this location may not adequately accommodate higher-volume traffic movements and motorists may use the clearance intervals to enter and travel through the intersection. This can increase crash risk by creating driver expectancy issues at the intersection.

Shopiere Road and Murphy Woods Road

At the Murphy Woods Road intersection, six intersection-related crashes were reported in the past five years. Of those six crashes, three were single-vehicle crashes, two were angle crashes, and one was a rear-end crash. Three of six crashes involved a teenage driver. Four of six crashes involved vehicles traveling southbound.

Shopiere Road and Creek Road

At the Creek Road intersection, two intersection-related crashes were reported in the past five years; one was an angle crash, and one was a rear-end crash. No other significant crash trends or commonalities were identified.

Shopiere Road and Hart Road

At the Hart Road intersection, seven intersection-related crashes were reported in the past five years. Three crashes were single-vehicle crashes, three crashes were angle crashes, and one crash was a rear-end crash. An A-type (serious) injury crash occurred at this intersection, but the reporting officer cited aggressive driving and an impaired motorist played a factor in the crash.

Shopiere Road and Inman Parkway

At the Inman Parkway intersection, 16 intersection-related crashes were reported in the past five years. Nine crashes were angle crashes, four were rear-end crashes, and three were single-vehicle crashes. Nine of 16 crashes occurred during a five-hour period that coincides with traditional commuter time periods (6:00 a.m. to 9:00 a.m. and 4:00 p.m. to 6:00 p.m.). Six of 9 angle crashes involved a left-turning vehicle from Inman Parkway being struck. Two A-type (serious) injury crashes occurred at this location: one was the result of a single-vehicle leaving the roadway and striking the ditch (it should be noted that this crash was flagged for aggressive driving and impaired driver), while the other was a left-turning vehicle was struck by a through vehicle. The intersection is a T-intersection with the Inman Parkway approach under stop-sign control. Shopiere Road provides four travel lanes with no median or physical separation of the travel lanes. Left-turning motorists likely have difficulty entering the Shopiere Road traffic stream as they must assess gaps for northbound and southbound traffic before entering the intersection. This condition be especially challenging for trucks and larger vehicles due to their length and acceleration characteristics. In addition, a southbound right-turn lane is provided on Shopiere Road; it is possible that the vision of motorists on Inman Parkway may be blocked by rightturning vehicles (especially large trucks) as they are assessing gaps for oncoming southbound motorists. This condition may also contribute to the high frequency of left-turn crashes.

Shopiere Road and I-39/90 Southbound Ramps

At the I-39/90 southbound interchange ramp termini intersection, four intersection-related crashes were reported in the past five years. All four crashes were single-vehicle crashes. For three crashes, the motorist traveling on the exit ramp left the roadway and struck an object while one other crash was a vehicle fire.

Shopiere Road and I-39/90 Northbound Ramps

At the I-39/90 northbound interchange ramp termini intersection, six intersection-related crashes were reported in the past five years. Four of six crashes were single-vehicle crashes and two were angle crashes. Both angle crashes involved a westbound through vehicle striking a left-turning vehicle. Two of four single-vehicle crashes cited speed as a factor in the crash.

4 Pavement and Traffic Signal Inventory

An investigation of the existing roadway pavement and traffic signal equipment was performed along Shopiere Road. This analysis will provide a preliminary evaluation of the roadway pavement condition and traffic signal equipment to determine if any deficiencies are present.

4.1 Roadway Pavement Evaluation

Shopiere Road has an asphalt pavement roadway surface throughout the entirety of the study area. From Prairie Avenue to Inman Parkway, concrete curb and gutter is provided; from Inman Parkway to I-39/90, ten-foot asphalt and gravel shoulders are present. The current roadway surface was installed over several time periods including Years 2007, 2008, 2015, 2018, and 2024. An inventory of the existing pavement condition was performed by visually inspecting the roadway and driving over the roadway surface. In addition, WisDOT's Wisconsin Local Roads (WISLR) database was reviewed to obtain its PASER score. PASER scores indicates the current condition of the roadway pavement and are calculated based on surface type, identified distress, distress severity levels, rutting, and faulting. PASER scores range from one to ten, with ten representing a new roadway surface and one representing a completely failed pavement. The PASER scores for Shopiere Road are as follows:

- Shopiere Road from Prairie Avenue to Inman Parkway 7
- Shopiere Road from Inman Parkway to I-39/90 8

PASER scores of 7 indicate the roadway is in "good" condition and may be showing minimal traffic wear, such as longitudinal cracks. PASER scores of 8 indicate the roadway is in "very good" condition. Pavements with these scores are typically treated with maintenance efforts, such as sealcoating and crack filling. These scores fall in line with a visual review of the roadway as the asphalt pavement provided a smooth ride with minimal faulting or cracking of the roadway surface.

4.2 Traffic Signal Inventory

Two traffic signal installations currently exist along Shopiere Road: Cranston Road and Prairie Avenue. The following describes an inventory of the equipment at each traffic signal location.

Cranston Road

Traffic signals and poles at this location are in good condition; while the traffic signals are operating properly, some signal heads are missing the backplate (see image). Backplates help distinguish the signal head from its background (e.g., sunlight). Consideration should be made to add backplates where necessary as well as install retroreflective backplates to enhance the visibility and noticeability of the signals.

Intersection observations indicated a green signal phase occurring with no cars approaching, increasing the delay for vehicles stopped at other approaches. In addition, the long clearance interval (yellow + all red) may increase the probability of red-light running and "beating the yellow" by motorists. Therefore, consideration should be given to review the traffic signal timing plans at this intersection to determine appropriate phase and clearance interval parameters.

Crosswalks and pedestrian equipment are provided on all intersection approaches. Consideration should be given to provide pedestrian accommodations such as a sidewalk along Shopiere Road.



Shopiere Road at Cranston Road, Looking Northeast

Prairie Avenue

Traffic signals and poles at this location are in good condition; while the traffic signals are operating properly, one signal head is missing the backplate (see image). Backplates help distinguish the signal head from its background (e.g., sunlight). Consideration should be made to add backplates where necessary as well as install retroreflective backplates to enhance the visibility and noticeability of the signals.

Crosswalks and pedestrian signal equipment are provided on the northbound approaches of Shopiere Road and Prairie Avenue. It is recommended that the crosswalks have countdown timers to inform pedestrians how much time remains for the pedestrian phase before the traffic signal phasing changes.



Prairie Road at Shopiere Road, Looking North

5 Traffic Operations Analysis

To determine how traffic operates under existing conditions, an operational analysis was conducted for intersections identified in **Section 2.4** using methodologies published in the *Highway Capacity Manual* (HCM). The HCM module in the traffic operations software package, Synchro12, was used to document the results of the traffic operations analysis. Operational analysis results identify a Level of Service (LOS), which is intended to depict the quality of traffic flow through an intersection. Signalized and unsignalized intersections are given a ranking from LOS A through LOS F as a function of the average control delay as presented in **Table 5.1** for signalized intersections and **Table 5.2** for unsignalized and intersections. For urban arterials such as Shopiere Road, the minimum acceptable LOS is LOS D.

Table 5.1. Level of Service (LOS) Criteria, Signalized Intersections

LOS Designation	Average Control Delay/Vehicle (seconds)	Description
A	≤ 10.0	Very low vehicle delays, free flow, signal progression extremely favorable, most vehicles arrive during given signal phase.
В	10.1 to 20.0	Good signal progression, more vehicles stop and experience higher delays than for LOS A.
С	20.1 to 35.0	Stable flow, fair signal progression, significant number of vehicles stop at signals.
D	35.1 to 55.0	Congestion noticeable, longer delays and unfavorable signal progression, many vehicles stop at signals.
E	55.1 to 80.0	Limit of acceptable delay, unstable flow, poor signal progression, traffic near roadway capacity, frequent cycle failures.
F	> 80.0	Unacceptable delays, extremely unstable flow and congestion, traffic exceeds roadway capacity, stop-and-go conditions

Table 5.2. Level of Service (LOS) Criteria, Unsignalized Intersections

LOS Designation	Average Control Delay/Vehicle (seconds)	Description
A	≤ 10.0	No delays at intersections with continuous flow of traffic. Uncongested operations: high frequency of long gaps available for all left and right turning traffic. No observable queues.
В	10.1 to 15.0	Same as LOS A
С	15.1 to 25.0	Moderate delays at intersections with satisfactory to good traffic flow. Light congestion; infrequent backups on critical approaches.
D	25.1 to 35.0	Increased probability of delays along every approach. Significant congestion on critical approaches, but intersection functional. No standing long lines formed.
E	35.1 to 50.0	Heavy traffic flow condition. Heavy delays probable. No available gaps for cross-street traffic or main street turning traffic. Limited stable traffic flow.
F	> 50.0	Unstable traffic flow. Heavy congestion. Traffic moves in forced flow condition. Average delays greater than one minute highly probable. Total breakdown.

SOURCE: Highway Capacity Manual, HCM2010, Transportation Research Board, 2010.

5.1 Existing Conditions

To determine how traffic currently operates in the study area, an operational analysis was conducted for the weekday morning and afternoon peak hours at the key intersections. Existing geometrics, traffic controls, and peak hour traffic volumes for the key intersections are shown in Figure 2.1 and Figure 2.3. Level of service and queueing results for each turning movement at the analyzed intersections are shown in **Table 5.3** for the weekday AM peak hour and **Table 5.4** for the weekday PM peak hour. The traffic operations output files are in **Appendix B.**

The Shopiere Road roadway alignment runs southwest-to-northeast in the study area. For the following tables, Shopiere Road is identified as a northbound / southbound roadway except for the Prairie Avenue intersection where Shopiere Road is identified as eastbound / westbound.

Table 5.3. Traffic Operations Analysis, Existing Conditions, Weekday AM Peak Hour

Table 5.5. Iran			S Alialysis, Exi	sting Conditions, Weekday AM Peak Hour										al	
Intersection		erall	By Approach	Eastbound			_	/estbour		_	orthbou				
	Delay (s)	LOS	, ,,	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	_	SBR
			Lane Configuration	1	1	1	1 105	220	1	1 15	1>	-	1		
			Volume Dolay (s)	80 11.0	215 16.3	10 0.0	105 12.2	230 18.1	10 0.0	13.5	265 14.5	90	50 18.6		
Shopiere Road & Prairie Avenue	14.8	В	Delay (s) LOS	B	16.3 B	0.0 A	12.2 B	18.1 B	0.0 A	13.5 B	14.5 B	-	18.6 B		-
			V/C Ratio	0.21	0.54	0.00	0.27	0.67	0.00	0.04	0.70		0.20		_
				0.21	0.54	0.00	0.27	0.67	0.00	0.04	0.70		0.20	0.41	
			95% Queue (ft)		-15	1		15	1		1	-	-	1.	
			Lane Configuration Volume	- 20	<1>	- 35	-	1> 5	- 20	10	335	-	-		_
			Delay (s)	-	12.5	-	-	11.8	-	7.8	0.0				
Prairie Avenue & Bayliss Avenue	1.6	Α	LOS	-	B	-	-	В	_	Α.	A	-	-		_
			V/C Ratio	-	0.11	-	-	0.05	-	0.01	0.00	-	-	0.00	-
			95% Queue (ft)	-	10	-	-	5	-	0	0	-	-	0	-
			Lane Configuration	-	-	-	-	<1	1	-	1	1	-	<1	-
			Volume	-	1	-	25	10	15	-	325	30	10	310	-
Shopiere Road & Moccasin Trail	1.1	А	Delay (s)	-	-	-	-	16.0	10.6	-	0.0	-	-	8.1	-
Shopiere Road & Moccasin Trail	1.1	A	LOS	-	-	-	-	С	В	-	Α	-	-	Α	-
			V/C Ratio	-	-	-	-	0.11	0.03	-	0.00	-	-	0.01	-
			95% Queue (ft)	-	-	-	-	10	5	-	0	-	-	0	-
			Lane Configuration	1	1	1	1	2>	-	1	1	1	1	1	†
			Volume	125	225	95	65	250	20	100	205	70	20	1>	
Shopiere Road & Cranston Road	18.8	В	Delay (s)	14.7	23.7	18.6	15.0	19.7	-	14.0	19.4	16.6	13.0		
			LOS	В	С	В	В	В	-	В	В	В	В		
			V/C Ratio	0.32	0.67	0.21	0.21	0.42	-	0.28	0.54	0.14	0.06	0.57	0.24
			95% Queue (ft)						-		_				
	2.3		Lane Configuration	1	-	1	-	-	-	-	<2	-	-		- 40
Shopiere Road & Murphy Woods Road			Volume Dolay (s)	80	-	35 9.7	-	-	-	25	340 8.2	-	-		_
		Α	Delay (s)	16.8 C			-	-	-	-	8.2 A	-	-		
			LOS V/C Ratio	0.05	-	A 0.05	-	-	-	-	0.03	-	-		
			95% Queue (ft)	25	_	5	-	_	_	-	5	-	_		
			Lane Configuration	1	_	1	-	-	-	-	<2	-	-		
			Volume	15	-	50	-	-	-	55	360	-	-		_
			Delay (s)	15.5	-	9.7	-	-	-	-	8.2	-	-		
Shopiere Road & Creek Road	1.6	Α	LOS	С	-	Α	-	-	-	-	Α	-	-	Α	-
			V/C Ratio	0.05	-	0.07	-	-	-	-	0.05	-	-	0.00	-
			95% Queue (ft)	5	-	5	-	-	-	-	5	-	-	0	-
			Lane Configuration	-	-	-	1	-	1	-	2>	-	-	<2	-
			Volume	-	-	-	100	-	95	-	310	90	80	235	0.00 - 0 - 2> - 300 20 0.0 - A - 0.00 - 0 - <2 - 235 - 8.7 -
Shopiere Road & Hart Road	4.6	А	Delay (s)	-	-	-	23.8	-	10.7	-	0.0	-	-		-
Shophere houd a harehoud		, ,	LOS	-	-	-	С	-	В	-	Α	-	-		-
			V/C Ratio	-	-	-	0.38	-	0.15	-	0.00	-	-		
			95% Queue (ft)	-	-	-	45	-	15	-	0	-	-		
			Lane Configuration	1 170	-	1 130	-	-	-	150	<2 250	-	-		†
			Volume Delay (s)	34.3	-	9.7	-	-	-	-	8.7	-	-		
Shopiere Road & Inman Parkway	8.1	Α	LOS	D D		3.7 A		_			A	_			
			V/C Ratio	0.62	-	0.16	-	-	-	-	0.15	-	-		0.00
			95% Queue (ft)	100	-	15	-	-	-	-	15	-	-		
			Lane Configuration	1	-	1	-	-	-	-	1	1	1		-
			Volume	5	-	225	-	-	-	-	325	115	20		-
Chariana Danid 8 L 20/00 CD Da			Delay (s)	13.2	-	0.0	-	-	-	-	0.0	0.0	8.3		-
Shopiere Road & I-39/90 SB Ramps	0.4	Α	LOS	В	-	Α	-	-	-	-	Α	Α	Α	Α	-
			V/C Ratio	0.01	-	0.00	-	-	-	-	0.00	0.00	0.02	0.00	-
			95% Queue (ft)	5	-	0	-	-	-	-	0	0	5	0	-
			Lane Configuration	-	-	-	1	-	1	1	1	-	-	1	1
			Volume	-	-	-	130	-	5	310	20	-	-	55	30
Shopiere Road & I-39/90 NB Ramps	14.9	В	Delay (s)	-	-	-	43.4	-	8.6	8.1	0.0	-	-		0.0
S. Opicie Rodd & 1-33/30 No Ramps	1-7.5	"	LOS	-	-	-	E	-	Α	Α	Α	-	-		Α
			V/C Ratio	-	-	-	0.64	-	0.01	0.24	0.00	-	-	0.00	0.00
	n og nortl		95% Queue (ft)	-	-	-	100	-	5	25	0	-	-	0	0

NOTE: Shopiere Road is shown as northbound / southbound except for Prairie Avenue intersection, where it is eastbound / westbound

Table 5.4. Traffic Operations Analysis, Existing Conditions, Weekday PM Peak Hour

Table 5.4. Traff	s Anaiysis, Exi														
Intersection	Intersection Overall		By Approach		astboun			estbour			orthbou		Southbound		
	Delay (s)	LOS	Lana Canfinunction	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
			Lane Configuration Volume	1 55	1 280	30	135	1 175	1 55	30	1> 255	135	50	1> 360	- 75
			Delay (s)	11.6	20.2	0.0	13.1	16.2	0.0	19.7	14.5	-	19.1	15.3	
Shopiere Road & Prairie Avenue	16.0	В	LOS	В	C C	Α	В В	B	Α	В	B	-	B	B	
			V/C Ratio	0.12	0.69	0.00	0.37	0.42	0.00	0.12	0.68	-	0.18	0.74	
			95% Queue (ft)	0.12	0.03	0.00	0.57	0.42	0.00	0.12	0.00	-	0.10	0.74	
			Lane Configuration	-	<1>	_	-	1>	-	1	1	-	-	1>	
			Volume	35	-	35	-	25	50	20	290	-	-	455	
			Delay (s)	-	20.4	-	-	14.4	-	8.6	0.0	_	_	0.0	-
Prairie Avenue & Bayliss Avenue	2.8	Α	LOS	_	C	_	-	В	_	A	A	-	-	A	_
			V/C Ratio	_	0.25	_	-	0.18	_	0.02	0.00	-	_	0.00	_
			95% Queue (ft)	-	25	-	-	15	-	5	0	-	-	0	-
			Lane Configuration	-	-	-	-	<1	1	-	1	1	-	<1	-
			Volume	-	-	-	10	10	35	-	415	50	30	300	-
Chariana Dand S Manasain Tool	1		Delay (s)	-	-	-	-	16.4	11.1	-	0.0	-	-	8.3	-
Shopiere Road & Moccasin Trail	1.1	Α	LOS	-	-	-	-	С	В	-	Α	-	-	Α	-
			V/C Ratio	-	-	-	-	0.06	0.06	-	0.00	-	-	0.03	-
			95% Queue (ft)	-	-	-	-	5	5	-	0	-	-	5	-
			Lane Configuration	1	1	1	1	2>	-	1	1	1	1	1	1
			Volume	200	445	160	100	340	35	170	255	145	20	220	
Shopiere Road & Cranston Road	23.6	С	Delay (s)	15.1	29.6	18.1	18.1	20.9	-	19.8	24.8	21.7	19.2	28.8	
·			LOS	B	C	В	B	C	-	B	C	C	В	C	
			V/C Ratio	0.44	0.82	0.22	0.37	0.40	-	0.47	0.60	0.26	0.06	0.63	0.50
	-		95% Queue (ft) Lane Configuration	1	-	1	-		-	_	<2	-	-	2>	
	2.2		Volume	60	-	40	-	-	_	55	385	-	-	460	
Shopiere Road & Murphy Woods Road			Delay (s)	21.2		10.3	-			-	8.8	-	-	0.0	-
		Α	LOS	C C	-	В	-	-	-	-	A	-	-	A	-
			V/C Ratio	0.22	-	0.06	-	-	-	-	0.06	-	-	0.00	-
			95% Queue (ft)	20	-	5	-	-	-	-	5	-	-	0	-
			Lane Configuration	1	-	1	-	-	-	-	<2	-	-	2>	-
			Volume	20	-	70	-	-	-	80	365	-	-	460	10
Shapiara Paad & Crook Boad	2.0	_	Delay (s)	19.3	-	10.3	-	-	-	-	8.7	-	-	0.0	-
Shopiere Road & Creek Road	2.0	Α	LOS	С	-	В	-	-	-	-	Α	-	-	Α	-
			V/C Ratio	0.08	-	0.10	-	-	-	-	0.08	-	-	0.00	-
			95% Queue (ft)	5	-	10	-	-	-	-	10	-	-	0	-
			Lane Configuration	-	-	-	1	-	1	-	2>	-	-	<2	-
			Volume	-	-	-	140	-	55	-	265	130	70	320	-
Shopiere Road & Hart Road	4.6	Α	Delay (s)	-	-	-	23.0	-	10.0	-	0.0	-	-	8.4	3 4 5 5 6 7 8 8 9 9 9 9 9 9
			LOS V/C Ratio	-	-	-	C 0.44	-	B 0.08	-	0.00	-	-	A 0.07	
			95% Queue (ft)	-	-	-	55	-	5	-	0.00	-	-	5	
		1	Lane Configuration	1		1	-	_	-	-	<2	_	-	2	
			Volume	230	-	105	-	_	_	95	220	-	-	285	
			Delay (s)	29.0	-	9.7	-	-	-	-	8.8	-	-	0.0	
Shopiere Road & Inman Parkway	7.7	Α	LOS	D	-	Α	-	-	-	-	Α	-	-	Α	
			V/C Ratio	0.63	,	0.13	-	-	-	-	0.09	-	,	0.00	0.00
			95% Queue (ft)	105	1	10	-	-	-	1	10	ı	-	0	0
			Lane Configuration	1	-	1	-	-	-	-	1	1	1	1	-
			Volume	25	-	340	-	-	-	-	325	100	25	155	-
Shopiere Road & I-39/90 SB Ramps	0.9	А	Delay (s)	13.3	-	0.0	-	-	-	-	0.0	0.0	8.1	0.0	0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -
S. opicie noda & 1-35/50 35 namps] "		LOS	В	-	Α	-	-	-	-	Α	Α	Α	Α	
			V/C Ratio	0.06	-	0.00	-	-	-	-	0.00	0.00	0.02	0.00	
			95% Queue (ft)	5	-	0	-	-	-	-	0	0	5	0	
			Lane Configuration	-	-	-	1	-	1	1	1 05	-	-	1 70	
			Volume Dolay (s)	-	-	-	110	-	10	265	85	-	-	70	
Shopiere Road & I-39/90 NB Ramps	8.3	Α	Delay (s) LOS	-	-	-	22.0 C	-	8.8 A	7.9 A	0.0	-	-	0.0	
			V/C Ratio	-		-	0.64		0.01	0.24	0.00	-	-	0.00	
			95% Queue (ft)	-	-	-	40		5	20	0.00	-	-	0.00	
			33/0 Queue (11)				I 4∪		ر	20	U			U	U

NOTE: Shopiere Road is shown as northbound / southbound except for Prairie Avenue intersection, where it is eastbound / westbound

The results of the existing-year traffic operations analysis indicate that all intersections currently operate at adequate levels of service (LOS D or better) with the exception of Shopiere Road and I-39/90 northbound ramps. During the weekday afternoon peak hour, movements from the interchange exit ramp can experience longer delays due to infrequent gaps in the Shopiere Road traffic stream not adequately allowing traffic to enter the intersection. This is not an uncommon situation, especially when high-volume movements along arterials such as Shopiere Road intersect side streets under stop-sign control. As traffic volumes increase at this location, consideration should be given to identify geometric improvements that will mitigate these deficiencies at this location.

5.2 Year 2049 Conditions, No Build

To determine if the existing roadway system will accommodate Year 2049 traffic volumes, a peak hour operations analysis was conducted that evaluated the existing intersection geometry, lane configuration, and control with forecasted Year 2049 peak hour volumes. Analysis outputs are illustrated in **Table 5.5** (weekday morning peak hour) and **Table 5.6** (weekday afternoon peak hour). Traffic operations output files for this scenario are provided in **Appendix C.**

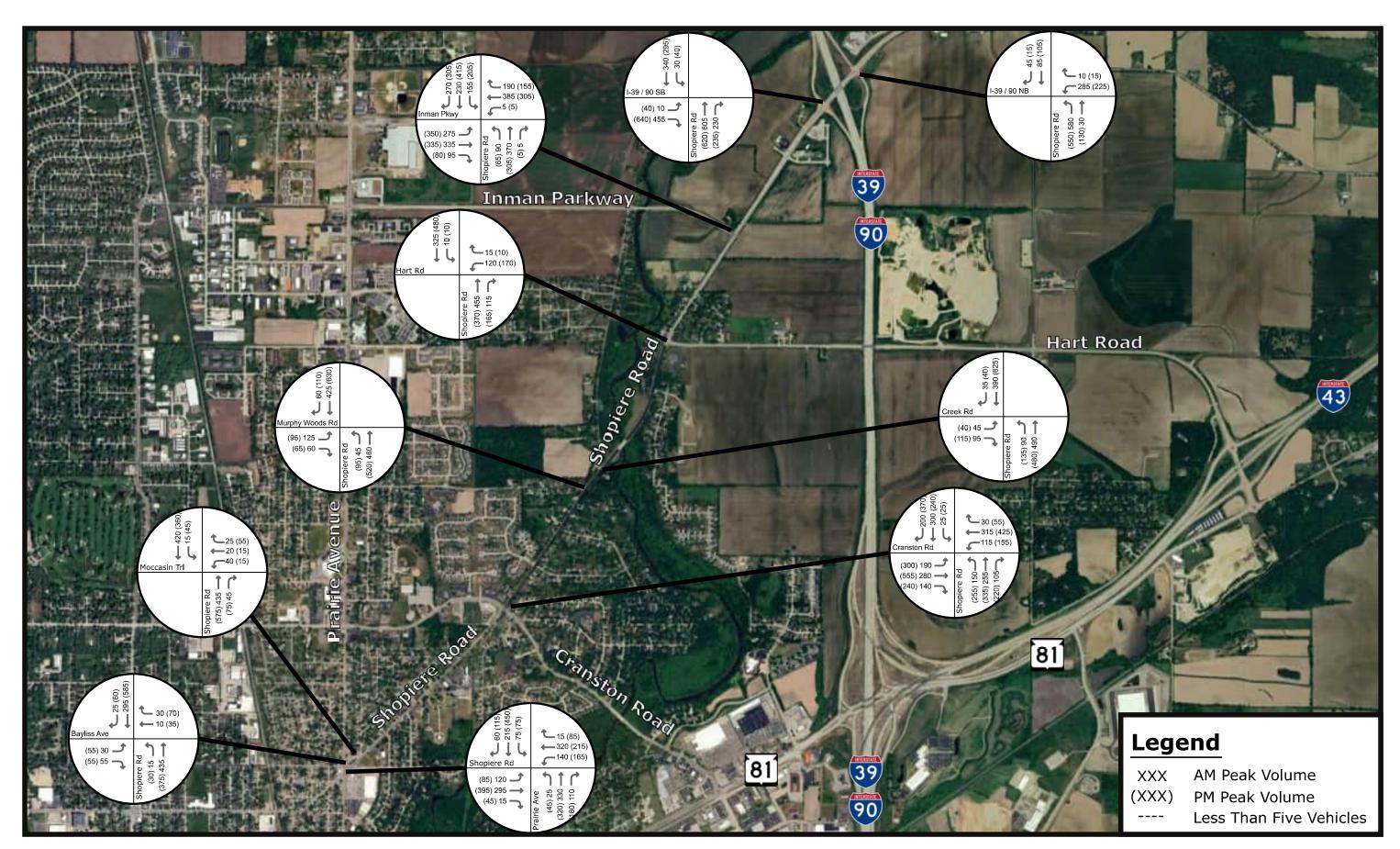
The Year 2049 traffic volumes were projected using the following methodologies:

- Past traffic count data along Shopiere Road was reviewed to determine historical growth trends. This review indicated that, on average, daily traffic volumes along Shopiere Road grew approximately two percent per year. This average growth rate was applied to the Year 2024 intersection turning movement counts collected for this study to project Year 2049 traffic conditions.
 - This yearly growth rate considers elements such as population growth, transportation network improvements, and new local and regional developments not specifically identified in this study
 - o Through movements along Prairie Avenue and Cranston Road were increased by one percent per year, as determined from previous studies for these roadways
- Peak-hour traffic for planned / proposed developments were developed using trip generation rates published in the ITE *Trip Generation Manual*. The following developments were included in the traffic projections:
 - At the time of this study, Stainless Tanks and Equipment was building a new, 350,000 square-foot manufacturing facility. This development is located on the east side of Shopiere Road, south of the I-39/90 interchange. Access to this site will be provided from Shopiere Road.
 - A 92-unit, single-family residential neighborhood is proposed for development.
 This site is generally bounded by Creek Road to the east and Murphy Woods
 Road to the south and will have access to both roadways upon full buildout.

• The proposed extension of Inman Parkway from Shopiere Road to Winchester Drive, as discussed in Chapter 3.3. This improvement was assumed for completion before the Year 2049 horizon-year and will adjust traffic patterns along Shopiere Road, so it was included in the no-build evaluation.

The peak-hour traffic projections for the planned / proposed developments helped create a volume data set used to evaluate the existing geometrics and intersection control. The Year 2049 peak-hour intersection turning movement counts are illustrated in Error! Reference source not found.. It should be noted that the Inman Parkway extension was assumed as part of the no-build analysis due to its likely implementation before the horizon-year. This includes a new intersection leg at the Shopiere Road intersection and a new intersection at Hart Road. The following illustrates the assumed intersection control and lane configuration at each intersection:

- Shopiere Road and Inman Parkway
 - North approach: shared left/through, through, right
 - South approach: shared left/through, shared through right
 - East approach: left, through, right (stop-controlled)
 - West approach: left, through, right (stop-controlled)
- Inman Parkway and Hart Road
 - North approach: left, through, right (stop-controlled)
 - South approach: left, through, right (stop-controlled)
 - East approach: left, through, right (stop-controlled)
 - West approach: left, through, right (stop-controlled)



Year 2049 Intersection Peak Hour Volumes

Table 5.5. Traffic Operations Analysis, Year 2049 No-Build Conditions, Weekday AM Peak Hour

Shopiere Road & Prainin Avenue 19.8 Shopiere Road & Libraro Road & Libraro Road & Shopiere Road & Libraro Road Road & Libraro Road & Libraro Road Road Road Road Road Road Road Roa	Table 5.5. Traffic	Table 5.5. Traffic Operations Analysis, Year 2049 No-Build Conditions, Weekday AM Pe																				
Shopiere Road & Fraine Avenue 19.8 19.	Intersection			By Approach				_			_											
Noplete Road & Praint Avenue 19.8 Pate Pate Pate 19.8 A 15.8 15.8 16.9 15.5 15.8 16.9 15.5 15.8 15.9 15.8 15.9 15.9 15.8 15.9		Delay (s)	LOS										NBR		_	SBR						
Shopiere Road & Prairie Avenue 13-0 1-8 1-8 1-8 1-8 1-9								_					110			- 60						
100 100									_													
Vicination	Shopiere Road & Prairie Avenue	19.8	В																			
99% General (1)													_			_						
Comparison Com													-			_						
Prointe Avenue & Baylis Avenue 2.3 A					_	_							-			-						
Shopiere Road & Cranston Road 25					30	-	55	-	10	25	15	435	-	-	295	25						
Shoplere Road & Mocasin Trail	Prairie Avenue & Payliss Avenue	2.2	_	Delay (s)	-	16.0	-	-	14.1	-	8.0	0.0	-	-	0.0	-						
Shopiere Road & Moccasin Trail 1,7 A	Frame Avenue & Baynss Avenue	2.3	^		-		-	-		-			-	-		-						
Shoplere Road & Mocosin Trail						_			_													
Volume								_				_										
Shopiere Road & Moccasin Trail 1.7																						
Shopiere Road & Moccasin Tail 1.7						-				—												
	Shopiere Road & Moccasin Trail	1.7	Α			-																
Shopiere Road & Cranston Road 25.0 C C C C C C C C C					-	-	-	-			-		-	-		-						
Shoplere Road & Cranston Road 25.0 C C C E E				95% Queue (ft)	-	-	-	-	25	5	-	0	-	-	0	-						
Shopiere Road & Cranston Road 25.0 C C C C C C C C C				Lane Configuration	1	1	1	1	2>	-	1	1	1	1	1	1						
LOS				Volume	190	280	140	115	315	30	150	255	105	25	300	200						
LUS	Shopiere Road & Cranston Road	25.0	С							-						21.8						
Shopiere Road & Sys Cueue (ft) 115 220 60 70 130 0 85 170 40 15 225 85	Shoprere noda a cranston noda	25.0										_			_							
Shopiere Road & A.6																						
Volume 125 15 15 15 15 15 15 1											_	_										
Shopiere Road & Murphy Woods Road A 6												_										
Murphy Woods Road	Shopiere Road &								-													
Note		4.6	Α			-			-	-	-		-	-		-						
Lane Configuration 1	, , , , , , , , , , , , , , , , , , , ,					-		-	-	-	-		-	-		-						
Noting				95% Queue (ft)	75	-	10	-	-	-	-	5	-	-	0	-						
Shopiere Road & Creek Road 2.9				Lane Configuration	1	-	1	-	-	-	-	<2	-	-	2>	-						
Shopiere Road & Creek Road 2.9				Volume		-									390							
LISS	Shopiere Road & Creek Road	2.9	A			-			-			_		-		-						
Shopiere Road & Hart Road 3.4 A						-								-		-						
Shopiere Road & Hart Road 3.4 A																						
Note Shopiere Road & Hart Road Shopiere Road & Inman Parkway Shopiere Road & Inman Parkway & Hart Road S												_										
Shopiere Road & Hart Road A						-							_									
Shopiere Road & Hart Road 3.4 A LOS V/C Ratio - - - 0 - B - A - - A - - A - -						-																
Shopiere Road & Inman Parkway & Hart Road Parkway & Hart Road	Shopiere Road & Hart Road	3.4	A			-			-				-	-		-						
Lane Configuration 1 1 1 1 1 1 1 1 1				V/C Ratio	-	-	-	0.46	-	0.03	-	0.00	-	-	0.01	-						
Nolume 275 335 95 5 385 190 90 370 5 155 230 270				95% Queue (ft)	-	-	-	60	-	5	-	0	-	-	5	-						
Delay (s) 999.0 999.0 999.0 999.0 11.1 - 9.1 - - 8.7 0.0				Lane Configuration												1						
LOS F F A F F B - A A A A A A A A									_					155								
V/C Ratio 4.50 2.80 0.12 0.07 4.90 0.26 - 0.10 - - 0.15 0.00	Shopiere Road & Inman Parkway	600.0	F																			
Shopiere Road & I-39/90 SB Ramps																						
Lane Configuration 1										 												
Note Shopiere Road & I-39/90 SB Ramps Park						-		-	-	-	-	_				-						
Delay (s) 23.7 - 0.0 - - - - 0.0 0.0 9.5 0.0 -						-		-	-	-	-				340	-						
LOS	Charles Band 8 L 20/00 CB Band		Ι.			-		-	-	-	-					-						
Shopiere Road & I-39/90 NB Ramps F	Shopiere Road & I-39/90 SB Ramps	0.4	A	LOS	С	-	Α	-	-	-	-	Α	Α	Α	Α	-						
Lane Configuration - - - 1 1 1 1 - - 1 1				V/C Ratio	0.06	-	0.00	-	-	-	-	0.00	0.00	0.04	0.00	-						
Shopiere Road & I-39/90 NB Ramps FF						-			-	-												
Shopiere Road & I-39/90 NB Ramps F						-																
LOS						-				_												
V/C Ratio - - - 5.30 - 0.01 0.46 0.00 - - 0.00 0.00	Shopiere Road & I-39/90 NB Ramps	578.0	F																			
Post																						
Lane Configuration 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																						
Nolume S 135 S 30 155 285 5 290 20 255 235 5												 				_						
Delay (s) 12.5 17.1 11.2 12.2 16.0 22.8 11.8 31.2 10.9 26.0 20.8 10.2										_												
LOS B C B B C C B D B D C B V/C Ratio 0.01 0.37 0.01 0.08 0.38 0.65 0.01 0.73 0.05 0.65 0.57 0.01 95% Queue (ft) 0 45 0 10 45 115 0 150 5 115 85 5	Inman Darkway & Hart Band	22.0	_													10.2						
95% Queue (ft) 0 45 0 10 45 115 0 150 5 115 85 5	пітпап Рагкway & нагт коад	22.9	'			С	В	В		С	В		В	D	С	В						
						_			_	1												
																5						

NOTE: Shopiere Road is shown as northbound / southbound except for Prairie Avenue intersection, where it is eastbound / westbound

Table 5.6. Traffic Operations Analysis, Year 2049 No-Build Conditions, Weekday PM Peak Hour

Table 5.6. Traffic Ope		erall			astbour			/estbou			orthbou			ınd	
Intersection	Delay (s)		By Approach	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR	
	Delay (5)	200	Lane Configuration	1	1	1	1	1	1	1	1>	NBR -	1	1>	-
			Volume	85	395	45	165	215	85	45	320	180	75	450	115
			Delay (s)	17.0	35.4	0.0	21.0	23.0	0.0	33.1	21.6	-	31.3	27.1	-
Shopiere Road & Prairie Avenue	26.3	С	LOS	В	D	Α	С	С	Α	С	С	-	С	С	-
			V/C Ratio	0.21	0.87	0.00	0.58	0.45	0.00	0.26	0.75	-	0.36	0.83	_
			95% Queue (ft)	50	330	0	105	155	0	40	320	-	65	400	-
			Lane Configuration	-	<1>	-	-	1>	-	1	1	-	-	1>	-
			Volume	55	-	55	-	35	70	30	375	-	-	585	60
			Delay (s)	-	54.2	-	-	20.2	_	9.2	0.0	_	_	0.0	_
Prairie Avenue & Bayliss Avenue	6.6	A	LOS	_	F	_	-	С	-	Α	Α	-	_	Α	-
			V/C Ratio	-	0.65	-	-	0.33	-	0.04	0.00	-	-	0.00	-
			95% Queue (ft)	-	95	-	-	35	-	5	0	-	-	0	-
			Lane Configuration	-	-	-	-	<1	1	-	1	1	-	<1	-
			Volume	-	-	-	15	15	55	-	575	75	45	360	-
Charles Bank O Manager Tools	4.5	١.	Delay (s)	-	-	-	-	22.6	13.0	-	0.0	-	-	8.8	-
Shopiere Road & Moccasin Trail	1.5	A	LOS	-	-	-	-	С	В	-	Α	-	-	Α	-
			V/C Ratio	-	-	-	-	0.13	0.11	-	0.00	-	-	0.05	-
			95% Queue (ft)	-	-	-	-	10	10	-	0	-	-	5	-
			Lane Configuration	1	1	1	1	2>	-	1	1	1	1	1	1
			Volume	300	555	240	155	425	55	255	335	220	25	240	370
Shopiere Road & Cranston Road	37.5	D	Delay (s)	21.0	71.7	23.9	27.5	30.5	-	24.6	30.2	25.0	25.5	36.8	41.2
Shoplere Road & Cranston Road	37.3	, D	LOS	С	E	С	С	С	-	С	С	С	С	D	D
			V/C Ratio	0.69	1.01	0.33	0.68	0.57	-	0.68	0.66	0.32	0.09	0.68	0.78
			95% Queue (ft)	200	650	115	120	210	-	190	280	110	25	230	230
			Lane Configuration	1	-	1	-	-	-	-	<2	-	-	2>	-
			Volume	95	-	65	-	-	-	95	520	-	-	630	110
Shopiere Road &	5.5	Α	Delay (s)	63.9	-	11.7	-	-	-	-	9.9	-	-	0.0	-
Murphy Woods Road			LOS	F	-	В	-	-	-	-	A	-	-	A	-
			V/C Ratio	0.65	-	0.11	-	-	-	-	0.12	-	-	0.00	-
			95% Queue (ft)	90	-	10	-	-	-	-	10	-	-	0	-
			Lane Configuration	1	-	1	-	-	-	-	<2	-	-	2>	-
			Volume	40	-	115	-	-	-	135	480	-	-	625	40
Shopiere Road & Creek Road	3.4	A	Delay (s)	40.9 E	-	11.9 B	-	-	-	-	9.8 A	-	-	0.0 A	-
			LOS V/C Ratio	0.30	-	0.19	-	-	-	-	0.16	-	-	0.00	-
			95% Queue (ft)	30	-	20	-	-	-	-	15	-	-	0.00	-
			Lane Configuration	-	-	-	1	-	1	_	2>	-	-	<2	-
			Volume	-	-	-	170	-	10	-	370	165	10	480	-
			Delay (s)	-	-	-	29.5	-	10.2	-	0.0	-	-	8.7	-
Shopiere Road & Hart Road	4.4	Α	LOS	-	-	-	D	-	В	-	A	-	-	A	-
			V/C Ratio	-	-	-	0.57	-	0.02	-	0.00	-	-	0.01	-
			95% Queue (ft)	-	-	-	85	-	5	-	0	-	-	5	-
			Lane Configuration	1	1	1	1	1	1	-	<2>	-	-	<2	1
			Volume	350	335	80	5	305	155	65	305	5	205	415	305
	====	_	Delay (s)	999.0	999.0	10.1	57.0	999.0	10.2	-	9.6	-	-	8.6	1.0
Shopiere Road & Inman Parkway	700.0	F	LOS	F	F	В	F	F	В	-	Α	-	-	Α	Α
			V/C Ratio	5.90	3.40	0.11	0.07	4.90	0.20	-	0.08	-	-	0.18	0.00
			95% Queue (ft)	1030	900	10	5	910	20	-	10	-	-	15	0
			Lane Configuration	1	-	1	-	-	-	-	1	1	1	1	-
			Volume	40	-	640	-	-	-	-	620	235	40	295	-
Shopiere Road & I-39/90 SB Ramps	1.1	Α	Delay (s)	25.3	-	0.0	-	-	-	-	0.0	0.0	9.3	0.0	-
5.10pre. e 110dd a 1 55, 50 55 11din.ps		'`	LOS	D	-	Α	-	-	-	-	Α	Α	Α	Α	-
			V/C Ratio	0.20	-	0.00	-	-	-	-	0.00	0.00	0.05	0.00	-
			95% Queue (ft)	20	-	0	-	-	-	-	0	0	5	0	-
			Lane Configuration	-	-	-	1	-	1	1	1	-	-	1	1
			Volume	-	-	-	225	-	15	550	130	-	-	105	15
Shopiere Road & I-39/90 NB Ramps	163.8	F	Delay (s)	-	-	-	735.0	-	9.1	8.9	0.0	-	-	0.0	0.0
			LOS	-	-	-	F 2.40	-	Α	A	Α	-	-	Α	Α
			V/C Ratio	-	-	-	2.40	-	0.02	0.38	0.00	-	-	0.00	0.00
			95% Queue (ft)	-	-	-	530	-	5	45	0	-	-	0	0
			Lane Configuration	1	1	1	1	1	1	1	1	1	1	1	1
			Volume	5	165	5	40	170	215	5	245	30	255	285	5
Inman Parkway & Hart Road	21.4	С	Delay (s)	12.5	17.1	11.2	12.2	16.0	22.8	11.8	31.2	10.9	26.0	20.8	10.2
			LOS V/C Patio	B 0.01	C 0.44	B 0.01	0.11	C 0.42	0.49	0.01	D 0.63	B 0.07	D 0.65	C 0.68	0.01
		l	V/C Ratio	0.01	55	0.01	10	0.43 55	65	0.01	105	5	110	125	0.01
	NOTE: Shapiara Pand is shown as north		95% Queue (ft)												

NOTE: Shopiere Road is shown as northbound / southbound except for Prairie Avenue intersection, where it is eastbound / westbound

The results of the future-year no-build traffic operations analysis indicate that several intersections and movements area anticipated to experience deficiencies during peak traffic periods. These locations are discussed below:

- Prairie Avenue and Bayliss Avenue. Movements from the side-street (Bayliss Avenue) may experience longer delays due to infrequent gaps in the Prairie Avenue traffic stream not adequately allowing traffic to enter the intersection. This is not an uncommon situation, especially when high-volume movements along arterials such as Prairie Avenue intersect side streets under stop-sign control.
- Shopiere Road and Cranston Road. The eastbound through movement is anticipated to operate at LOS E during the weekday afternoon peak hour. This is likely due to a high amount of traffic projected for this movement not being adequately accommodated by the allocation of green time at the traffic signal. This results in higher delays and longer queues for this approach.
- Shopiere Road and Murphy Woods Road: Movements from the side-street (Murphy Woods Road) may experience longer delays due to infrequent gaps in the Shopiere Road traffic stream not adequately allowing traffic to enter the intersection. This is not an uncommon situation, especially when high-volume movements along arterials such as Prairie Avenue intersect side streets under stop-sign control.
- Shopiere Road and Creek Road: Movements from the side-street (Creek Road) may experience longer delays due to infrequent gaps in the Shopiere Road traffic stream not adequately allowing traffic to enter the intersection. This is not an uncommon situation, especially when high-volume movements along arterials such as Prairie Avenue intersect side streets under stop-sign control.
- Shopiere Road and Inman Parkway: Movements from the side-street (Inman Parkway) may experience longer delays due to infrequent gaps in the Shopiere Road traffic stream not adequately allowing traffic to enter the intersection. With the extension of Inman Parkway, it is likely that an intersection control change will occur to accommodate traffic volumes at this location.
- Shopiere Road and I-39/90 northbound ramps: Movements from the interchange ramp will continue to experience longer delays due to their inability to enter the intersection.

6 Alternatives Evaluation

Chapter 3 highlighted geometric deficiencies and crash patterns in the study area that could create safety issues. These items include higher travel speeds along Shopiere Road, intersection layout at various intersections, and a lack of continuous bicycle and pedestrian facilities. Chapter 5 indicated that several intersections currently, and are anticipated to, experience operational deficiencies during peak-hour traffic periods. Therefore, alternatives were developed that address these issues while maintaining favorable safety, mobility, access, and multimodal accommodations. These alternatives, and their evaluation, are provided below. The Shopiere Road corridor was broken into several sections based on the existing road layout and surrounding land characteristics, and multiple typical section alternatives were created for each segment. These locations are detailed below from South to North.

6.1 Triangle Intersection (Shopiere Road, Prairie Avenue, Moccasin Trail, Bayliss Avenue)

The unique geometry of the Triangle intersection has led to numerous operational and safety concerns documented earlier in this report. Four options were developed to reduce access near the intersection to improve safety, driver expectations, and operations. Each option is incremental and further reduces access from the prior option.

6.1.1 Alternative 1a: Driveway Removal



Description:

This concept closes two driveways to the Mobil gas station in the southeast corner of the intersection. These driveways are within the physical and functional areas of the intersection and have the potential to lead to driver confusion and complex vehicle movements. If only one driveway can be closed, the northern driveway is preferred as it is in the physical intersection.

Potential Benefits of Alternative:

- Improves intersection safety by removing driveways located in the physical and functional areas of the Prairie Avenue intersection
- Minimal construction costs to implement
- No right of way impacts are anticipated for this improvement
- Delivery/fuel trucks accessing the Mobil gas station will be able to maneuver the site

Potential Detriments of Alternative:

- Patrons of the Mobil gas station will need to access the business from Moccasin Trail to the north or from the parking lot driveway to the south
- Alternative does not address deficiencies in area such as intersection skew, closely-spaced intersections, or multi-modal accommodations

6.1.2 Alternative 1b: Moccasin Trail Slip Lane Removal



Description:

This alternative builds from Alternative 1a by closing the driveways to the Mobil gas station in the southeast corner of the intersection as well as the northbound right turn slip lane from Shopiere Road to Moccasin Trail. If only one driveway can be closed, the northern driveway is preferred as it is in the physical intersection

Potential Benefits of Alternative:

- Improves intersection safety by removing driveways located in the physical and functional areas of the Prairie Avenue intersection
- Reduces travel speeds for right-turning traffic from northbound Shopiere Road to Moccasin Trail as these movements must turn at a full intersection instead of slip lane
- No right of way impacts are anticipated for this improvement
- Delivery/fuel trucks accessing the Mobil gas station will be able to maneuver the site

Potential Detriments of Alternative:

- Patrons of the Mobil gas station will need to access the business from Moccasin Trail to the north or from the parking lot driveway to the south
- Alternative does not address deficiencies in area such as intersection skew, closely-spaced intersections, or multi-modal accommodations
- Improving Moccasin Trail converts two shorter crosswalks into one longer crosswalk

6.1.3 Alternative 1c: Bayliss Avenue and Calumet Avenue Removal



Description:

This concept closes the driveways to the Mobil gas station in the southeast corner of the intersection, the northbound right turn slip lane from Shopiere Road to Moccasin Trail, and connections to Bayliss Avenue and Calumet Avenue. If only one driveway can be closed, the northern driveway is preferred as it is in the physical intersection

Potential Benefits of Concept:

- Improves intersection safety by removing driveways and closely-spaced roadways located in the physical and functional areas of the Prairie Avenue intersection
- Reduces travel speeds for right-turning traffic from northbound Shopiere Road to Moccasin Trail as these movements must turn at a full intersection instead of slip lane
- No right of way impacts are anticipated for this improvement
- Eliminates cut-through traffic of motorists using the Shopiere Road southbound right-turn lane to get to Bayliss Avenue westbound
- Operations and queues along Prairie Avenue southbound are improved as motorists do not need to leave a gap to access Bayliss Avenue
- Pedestrian crossing of Bayliss Avenue significantly improved by no longer conflicting with vehicles
- Resolves close intersection spacing on Shopiere Road with Calumet Avenue and Congress Avenue intersections
- Delivery/fuel trucks accessing the Mobil gas station will be able to maneuver the site

- Patrons of the Mobil gas station will need to access the business from Moccasin Trail to the north or from the parking lot driveway to the south
- Vehicle access to the church in the northwest quadrant of Prairie Avenue and Bayliss Avenue diverted to using Shopiere Road to Congress Avenue to Bayliss Avenue.
- Vehicle access to the existing Citgo gas station in the northwest quadrant of Shopiere Road and Prairie Avenue no longer has indirect access to Prairie Avenue via Bayliss Avenue
- Improving Moccasin Trail converts two shorter crosswalks into one longer crosswalk
- Alternative does not address deficiencies in area such as intersection skew, closely-spaced intersections, or multi-modal accommodations

6.1.4 Alternative 1d: Moccasin Trail Realignment



Description:

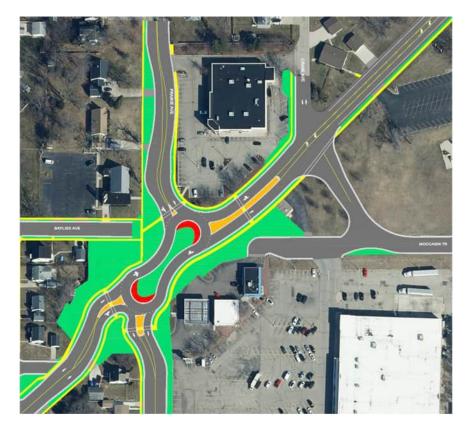
This concept builds on Alternative 1c but moves the Moccasin Trail intersection north along Shopiere Road to approximately align with Crane Avenue. If only one driveway can be closed, the northern driveway is preferred as it is in the physical intersection

Potential Benefits of Concept:

- Improves intersection safety by removing driveways and closely-spaced roadways located in the physical and functional areas of the Prairie Avenue intersection
- Reduces travel speeds for right-turning traffic from northbound Shopiere Road to Moccasin Trail as these movements must turn at a full intersection instead of slip lane
- No right of way impacts are anticipated for this improvement
- Eliminates cut-through traffic of motorists using the Shopiere Road southbound right-turn lane to get to Bayliss Avenue westbound
- Crosswalks on the northeast side of Moccasin Trail and on Prairie Avenue will improve multimodal connectivity in this area.
- Operations and queues along Prairie Avenue southbound are improved as motorists do not need to leave a gap to access Bayliss Avenue
- Pedestrian crossing of Bayliss Avenue significantly improved by no longer conflicting with vehicles
- Resolves close intersection spacing on Shopiere Road with Calumet Avenue and Congress Avenue intersections
- Improves intersection spacing and driver expectations by increasing the distance of Moccasin Trail to Prairie Avenue
- Delivery/fuel trucks accessing the Mobil gas station will be able to maneuver the site

- Patrons of the Mobil gas station will need to access the business from Moccasin Trail to the north or from the parking lot driveway to the south
- Vehicle access to the church in the northwest quadrant of Prairie Avenue and Bayliss Avenue diverted to using Shopiere Road to Congress Avenue to Bayliss Avenue
- Vehicle access to the existing Citgo gas station in the northwest quadrant of Shopiere Road and Prairie Avenue no longer has indirect access to Prairie Avenue via Bayliss Avenue
- Improving Moccasin Trail converts two shorter crosswalks into one longer crosswalk
- Alternative does not address deficiencies in area such as intersection skew, closely-spaced intersections, or multi-modal accommodations

6.1.5 Alternative 2: Peanut-Style Roundabout



Description:

This concept converts the Triangle Intersection signal into a 4-legged, peanut-style roundabout with Moccasin Trail relocated, Bayliss Avenue disconnected, and driveways to the Mobil gas station disconnected.

Potential Benefits of Concept:

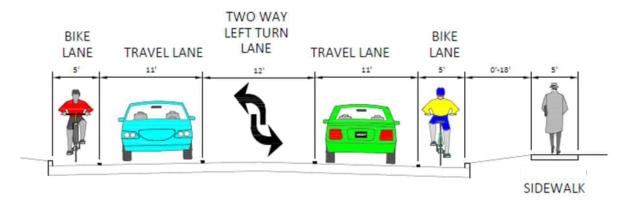
- Resolves potential safety issues regarding driveways in the functional area of the Prairie Avenue intersection
- Reduces travel speeds through intersection area due to presence of roundabouts
- Improves pedestrian crossing in the area due to crosswalks on all approaches, two stage crossings, and reduced vehicle speeds
- Improves traffic safety and traffic operations by removing access to Bayliss Avenue
- Improves intersection spacing and driver expectations by increasing the distance of Moccasin Trail to Prairie Avenue.
- Delivery/fuel trucks accessing the Mobil gas station will be able to maneuver the site

- Most impact to businesses adjacent to the intersection
- Right of way (and possible parcel) acquisition necessary for existing Citgo site on the west side of the intersection
- Most expensive alternative for implementation
- Peanut roundabout is not traditional design for motorists to navigate
- May be difficult for trucks to turn at closely-spaced roundabout legs such as Shopiere Road southbound to Prairie Avenue northbound and Shopiere Road northbound to Prairie Avenue southbound.
- Patrons of the Mobil gas station will need to access the business from Moccasin Trail to the north or from the parking lot driveway to the south
- Vehicle access to the church in the northwest quadrant of Prairie Avenue and Bayliss Avenue diverted to using Shopiere Road to Congress Avenue to Bayliss Avenue
- Potential impacts to transit routes reaching the Piggly Wiggly Transfer Point

6.2 Moccasin Trail to Schuster Drive

This section of the study area currently has one northbound and one southbound vehicle lane with parking lanes on both sides of the road. The segment has several intersections and residential driveways on both sides of the road. There is a sidewalk on the east side of the road but no facilities on the west side. There are no dedicated bicycle facilities in the section.

6.2.1 Alternative 1a: Three-lane cross-section



Description:

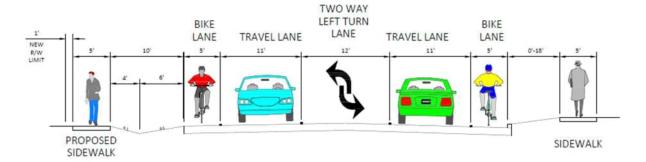
This concept modifies the existing typical section by adding a two-way, left-turn lane that separates the existing travel lanes and on-street bike lanes. To do so, the existing parking lanes would be removed.

Potential Benefits of Concept:

- Improves safety for left-turning vehicles by creating a refuge area for turning vehicles to wait for gaps in oncoming traffic
- May reduce travel speeds by reallocating under-utilized parking lanes as travel lanes
- Provides multimodal connectivity for bicyclists due to addition of bike lanes
- Can be implemented without impacts to roadway cross-section or right of way
- Minimal construction costs for implementation

- Eliminates existing on-street parking spaces, including ones near Our Lady of Assumption (OLA) church and school as well as Arrowhead Pointe Apartments
 - Parallel on-street parking near OLA could be shifted to the existing terrace but the number of spaces provided would be limited due to existing utility poles and trees that are currently present in the terrace section
- Does not address lack of pedestrian sidewalk along west side of roadway

6.2.2 Alternative 1b: Three-lane cross-section with addition of sidewalk



Description:

This concept builds from Alternative 1a but proposes to add a sidewalk to the west side of the roadway.

Potential Benefits of Concept:

- Improves safety for left-turning vehicles by creating a refuge area for turning vehicles to wait for gaps in oncoming traffic
- May reduce travel speeds by reallocating under-utilized parking lanes as travel lanes
- Provides multimodal connectivity due to addition of bike lanes and sidewalk
- Can be implemented without impacts to roadway cross-section

Potential Detriments of Concept:

- Eliminates existing on-street parking spaces, including ones near Our Lady of Assumption church and school as well as Arrowhead Pointe Apartments
 - Parallel on-street parking near OLA could be shifted to the existing terrace but the number of spaces provided would be limited due to existing utility poles and trees that are currently present in the terrace section
- Right of way needed to create western sidewalk.

6.2.3 Our Lady of the Assumption and Arrowhead Pointe sites

Shopiere Lane currently provides on-street parking in this corridor section that is used by two developments: Our Lady of the Assumption (OLA) church and school, and Arrowhead Pointe residential apartments. The alternatives developed for this section would remove the on-street parking that could potentially shift on-street parking elsewhere. Potential solutions to this condition include the following:

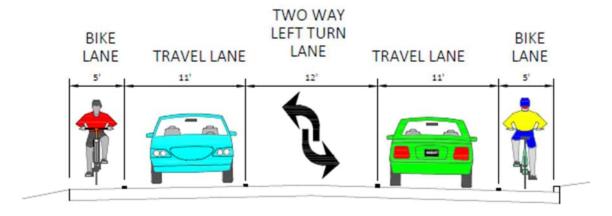
- Provide on-street parking along Shopiere Road at OLA and Arrowhead Pointe in the existing terrace
 - Existing utility poles and trees that are currently present in the terrace section would limit the number of spaces that could be provided.
- Provide on-street parking along the east side of Arrowhead Drive at the apartment building
 - Existing trees and the close proximity to Shopiere Road may limit the number of parking spaces that could be provided.

- Leave the current cross-section in-place along short sections of Shopiere Road (Arrowhead Drive to Monroe Avenue and/or OLA driveway to Vail Terrace) to provide on-street parking.
 - This would provide inconsistencies for the motorist as the TWLTL would appear and disappear over a one-quarter mile distance.
 - The on-street bicycle lanes may be eliminated, depending on the parking layout.

6.3 Schuster Drive to Cranston Road

This section of the study area currently has one northbound and one southbound vehicle lane with parking lanes on both sides of the road. The parking lanes are removed near Cranston Road to accommodate exclusive turn lanes at the intersection. The segment has multiple driveways to businesses and residential properties. The only pedestrian facilities are a short stretch of sidewalk on the west side of the road extending between Cranston Road and the business driveway to Casey's gas station. There are no dedicated bicycle facilities in the section.

6.3.1 Alternative 1a: Three-lane cross-section



Description:

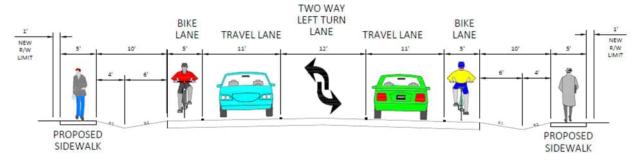
This concept modifies the existing typical section by adding a two-way, left-turn lane that separates the existing travel lanes and on-street bike lanes. To do so, the existing parking lanes would be removed.

Potential Benefits of Concept:

- Improves safety for left-turning vehicles by creating a refuge area for turning vehicles to wait for gaps in oncoming traffic
- May reduce travel speeds by reallocating under-utilized parking lanes as travel lanes
- Provides multimodal connectivity for bicyclists due to addition of bike lanes
- Can be implemented without impacts to roadway cross-section or right of way
- Minimal construction costs for implementation

- Eliminates existing on-street parking spaces
- Does not address lack of pedestrian sidewalk along the roadway
- Maintains rural cross-section (i.e., no curb and gutter added)

6.3.2 Alternative 1b: Three-lane cross-section with addition of sidewalk



Description:

This concept builds from Alternative 1a but proposes to add sidewalks to both sides of the roadway.

Potential Benefits of Concept:

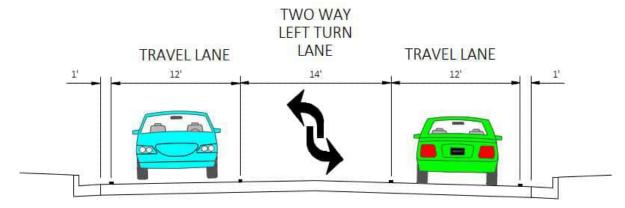
- Improves safety for left-turning vehicles by creating a refuge area for turning vehicles to wait for gaps in oncoming traffic
- May reduce travel speeds by reallocating under-utilized parking lanes as travel lanes
- Provides multimodal connectivity for bicyclists and pedestrians
- Can be implemented without impacts to roadway cross-section

- Eliminates existing on-street parking spaces
- Right of way is needed to create sidewalks
- Maintains rural cross-section (i.e., no curb and gutter added)

6.4 Cranston Road to Murphy Woods Road

This section of Shopiere Road currently has two northbound and two southbound vehicle lanes. The segment has multiple intersections and driveways. There are no pedestrian or bicycle facilities in this section.

6.4.1 Alternative 1a: Three-lane cross section



Description:

This concept modifies the existing typical section by adding a two-way, left-turn lane that separates the existing travel lanes and on-street bike lanes. To do so, the number of travel lanes along Shopiere Road would be reduced from four lanes to two lanes.

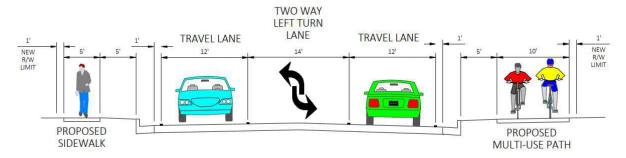
Potential Benefits of Concept:

- Improves safety for left-turning vehicles by creating a refuge area for turning vehicles to wait for gaps in oncoming traffic
- Reduces travel speeds by reducing number of travel lanes in each direction from two lanes to one lane; motorists must legally follow each other and cannot pass
- Can be implemented without impacts to roadway cross-section or right of way
- Minimal construction costs for implementation

Potential Detriments of Concept:

• Does not address lack of multimodal accommodations in the area

6.4.2 Alternative 1b: Three-lane cross section with addition of bike/ped facilities



Description:

This concept builds from Alternative 1a but proposes to add a sidewalk and multi-use path to the roadway cross-section.

Potential Benefits of Concept:

- Improves safety for left-turning vehicles by creating a refuge area for turning vehicles to wait for gaps in oncoming traffic
- May reduce travel speeds by reallocating under-utilized parking lanes as travel lanes
- Provides multimodal connectivity for bicyclists and pedestrians
- Can be implemented without impacts to roadway cross-section

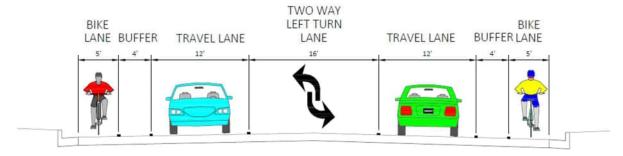
Potential Detriments of Concept:

• Right of way is needed to create sidewalk and multi-use path

6.5 Murphy Woods Road through Hart Road

This section of the study area currently has two northbound and two southbound vehicle lanes. The segment has multiple intersections and driveways. There are no bicycle or pedestrian facilities in this section. The terminus of this section would be just past the residential neighborhood north of Hart Road, approximately one-quarter mile north of Hart Road and approximately 1,000 feet south of Inman Parkway.

6.5.1 Alternative 1a: Three-lane cross section



Description:

This concept modifies the existing typical section by adding a two-way, left-turn lane that separates the existing travel lanes and on-street bike lanes. To do so, the number of travel lanes on Shopiere Road would be reduced from four lanes to two lanes. Also, due to the wide cross-section, a four-foot buffer separating the on-street bike lanes from the travel lanes would be provided.

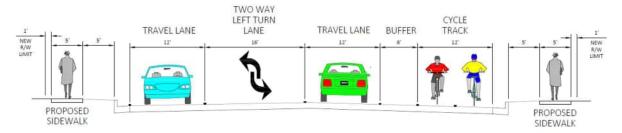
Potential Benefits of Concept:

- Improves safety for left-turning vehicles by creating a refuge area for turning vehicles to wait for gaps in oncoming traffic
- Reduces travel speeds by reducing number of travel lanes in each direction from two lanes to one lane; motorists must legally follow each other and cannot pass
- Can be implemented without impacts to roadway cross-section or right of way
- Minimal construction costs for implementation

Potential Detriments of Concept:

Does not address lack of pedestrian facilities in this section

6.5.2 Alternative 1a: Three-lane cross section with addition of bike/ped facilities



Description:

This concept builds from Alternative 1a but proposes to add sidewalks on both sides of Shopiere Road and an on-street cycle track for bicyclists.

Potential Benefits of Concept:

- Improves safety for left-turning vehicles by creating a refuge area for turning vehicles to wait for gaps in oncoming traffic
- Reduces travel speeds by reducing number of travel lanes in each direction from two lanes to one lane; motorists must legally follow each other and cannot pass
- Promotes multimodal connectivity by providing bicycle and pedestrian facilities
- Can be implemented without impacts to roadway cross-section

Potential Detriments of Concept:

• Right of way needed to construct sidewalks

6.6 Inman Parkway Intersection

The Inman Parkway (County BT) intersection is anticipated to operate at poor levels of service by Year 2049 as the existing lane configurations and intersection control cannot accommodate forecasted traffic volumes. In addition, the existing intersection geometry and increased truck traffic creates intersection safety concerns.

6.6.1 Alternative 1: All-way stop control

Description:

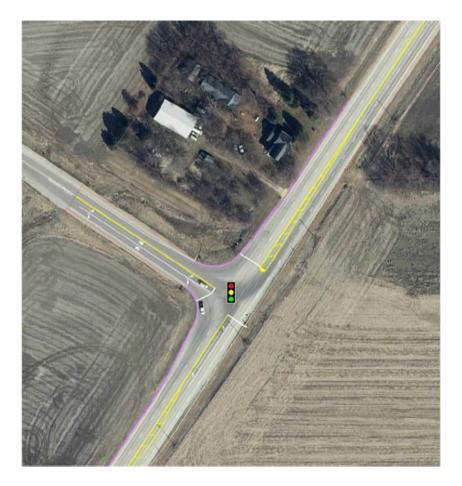
This alternative would install stop signs to all intersection approaches, requiring all vehicles to stop before entering the intersection. No geometric changes would be made with this alternative.

Potential Benefits of Concept:

- Improves safety for Inman Parkway traffic by requiring all vehicles to stop before entering intersection
- Lowers traffic speeds through intersection as vehicles are required to stop
- May assist lowering traffic speeds along Shopiere Road as this intersection control serves as a transition from rural, high-speed sections near I-39/90 and the approaching urban/suburban, lower-speed sections
- No impacts to roadway cross-section or right of way needed to implement
- Minimal construction costs

- Not a long-term solution as increased traffic volumes will create longer delays and queues
- Short-term safety concerns as Shopiere Road traffic transitions from a free-flow movement to a stop-controlled movement and may not see/adhere to the stop signs

6.6.2 Alternative 2: Traffic Signal



Description:

This alternative would upgrade the intersection control from stop-control to traffic signals. The south (northbound) approach would be widened to provide an exclusive left-turn lane and two through lanes for travel. No other geometric changes were assumed for this alternative.

Potential Benefits of Concept:

- Improves traffic operations by allocating green time to all movements
- Improves traffic safety for Inman Parkway traffic by permitting green time for their movements
- Can be built to accommodate potential Inman Parkway extension with minimal sunk cost

Potential Detriments of Concept:

- May increase rear-end crashes along Shopiere Road due to interrupted traffic flow during red signal phase.
- Increased cost to build signal infrastructure and right of way acquisition.
- On-going signal maintenance and re-timing costs.

It should be noted that traffic volumes collected at this intersection do not meet minimum thresholds, as published in the Manual of Uniform Traffic Control Devices (MUTCD), for traffic signal consideration.

6.6.3 Alternative 3: Roundabout



Description:

This alternative would upgrade the intersection control from stop-control to a roundabout. The Shopiere Road approaches would provide two approach lanes while the Inman Parkway approach would provide one approach lane.

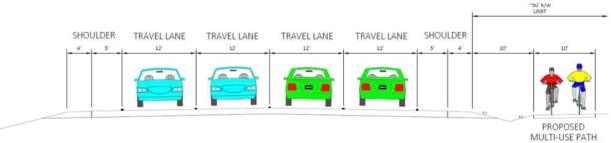
Potential Benefits of Concept:

- Improves traffic safety by eliminating head-on and right-angle crashes at the intersection
- Reduces travel speeds approaching and through intersection area due to circulatory lanes
- Can serve as a transition area between differing cross-sections of Shopiere Road
- Can be built to accommodate potential Inman Parkway extension with minimal sunk cost

- Requires right of way acquisition
- Most expensive alternative to implement

6.7 Inman Parkway to I-39 / 90

6.7.1 Alternative 1: Provide multi-use path



Description:

This alternative maintains the existing roadway cross-section of four travel lanes but adds a multiuse path for bicyclists and pedestrians.

Potential Benefits of Concept:

- Improves bicycle and pedestrian safety by providing dedicated facilities away from roadway
- Improves multimodal connectivity from the City of Beloit to rural Rock County

Potential Detriments of Concept:

• Right of way needed to construct the multi-use path

6.8 IH-39/90 northbound ramp terminus

The I-39/90 northbound ramp terminus currently, and is anticipated to, operate at poor levels of service during peak traffic periods. Specifically, left-turning movements from the I-39/90 exit ramp have difficulty finding gaps in the Shopiere Road traffic stream (particularly, the high number of left-turning vehicles from Shopiere Road to the I-39/90 entrance ramp).

6.8.1 Alternative 1: Traffic Signal



Description:

This alternative would upgrade the existing side-road stop control with traffic signals.

Potential Benefits of Concept:

- Improves safety for ramp traffic as protected green time will be allotted for their movement through the intersection
- No changes to the roadway cross-section or right of way needed for implementation
- Minimal construction costs

Potential Detriments of Concept:

• Existing and future traffic volumes do not meet minimum volume warrants for traffic signal consideration, per WisDOT and MUTCD

6.8.2 Alternative 2: Roundabout



Description:

This intersection converts the stop approach to a roundabout to increase the northbound left turn movements and slow the vehicle traffic along Shopiere Road.

Potential Benefits of Concept:

- Slows vehicles as Shopiere Road transitions to have more access north of this intersection.
- Improves left turn from IH-39/90 off ramp to southwest Shopiere Road

Potential Detriments of Concept:

• Truck traffic impacts from navigating roundabout to travel southwest towards Beloit.

7 Recommendations

Alternatives for the Shopiere Road corridor were developed based on deficiencies found in the following categories: geometric site reviews of the study area, safety evaluation of the Shopiere Road corridor and the study intersections, and intersection operations analysis for the existing-year and Year 2049 horizon year. Locations with several alternatives were evaluated based on the aforementioned categories and a preferred alternative was selected based on those results The following describes recommendations for the Shopiere Road corridor and key intersections:

Shopiere Road (Prairie Avenue to Inman Parkway)

- It is recommended that the Shopiere Road cross-section be updated to provide a three-lane cross-section (two travel lanes and a TWLTL) from Prairie Avenue to south of Inman Parkway. This alternative improves both safety and mobility as the TWLTL will allow left-turning vehicles to store and complete their turning movement to and from Shopiere Road. The three-lane cross-section will also reduce travel speeds as motorists will not have the ability to use multiple travel lanes to maneuver around slower-moving traffic; rather, traffic must use a single travel lane which can restrict speed variances, particularly faster travel speeds, since vehicle passing is prohibited. This improvement can be accommodated within the existing roadway cross-section and right of way, minimizing construction costs and right of way acquisition.
- It is recommended that multimodal accommodations, such as sidewalks, multi-use paths, and cycle tracks, be implemented along Shopiere Road. Providing these elements will enhance bike/ped accommodations along the corridor and provide a vital connection between northeast Beloit and the downtown area. While it is likely that right of way may be needed in several locations to construct these improvements, it is anticipated to be approximately five to ten feet wide for the length of a parcel and no buildings are anticipated to be impacted by these improvements.
- It is recommended that other treatments be implemented to inform motorists of the speed limit in their area. Elements such as roadway pavement markings and speed feedback signs will help reinforce the regulatory speed limit expected by motorists. These features would be particularly helpful in areas such as residential neighborhoods and near the OLA church and school campus.

Shopiere Road, Prairie Avenue / Bayless Avenue / Moccasin Trail intersection ("Triangle")

• In the short-term, it is recommended that the Triangle intersection be modified with access restrictions and a realignment of Moccasin Trail (Alternative 1d). These access restrictions will improve safety by eliminating non-intersection turning movements within the physical and functional intersection area which improves driver expectations. Removing access to Bayless Avenue and realigning Moccasin Trail increases the intersection spacing from Prairie Avenue and Shopiere Road intersection, improving traffic operations and vehicle storage capabilities without interference from closely-spaced upstream intersections.

• In the long-term, it is recommended that the intersection control be upgraded to a roundabout (Alternative 2). Roundabouts improve traffic safety by eliminating head-on and angle crashes as well as reduces travel speeds due to the roundabout design. The peanut-style roundabout shown for Alternative 2 requires significant right of way to implement; therefore, the roundabout design should be considered as land uses and parcels change or develop in the future, a preferred intersection control is not necessary at this time.

Shopiere Road, Cranston Road intersection

- The recommended three-lane cross-section of Shopiere Road will improve the existing geometric concerns of trapping lanes, driveway access, and left turn visibility at the intersection. The realignment of the travel lanes and the reconfiguration of the roadway cross-section will allow for these deficiencies to be addressed without additional right of way or widening of the roadway cross-section.
- It is recommended that traffic signal clearance intervals be examined with the lane configuration change for adherence by motorists.

Shopiere Road, Hart Road intersection

- In the short-term, it is recommended that no intersection control or geometric changes be made to the intersection as the recommended three-lane cross-section will help Hart Road traffic enter the intersection in a safer manner.
- In the long-term, consideration should be given to restrict or eliminate this intersection once Inman Parkway is extended. With the roadway extension, it is likely that traffic currently using Hart Road will divert to Inman Parkway, significantly reducing the demand for this approach. Restricting or eliminating this intersection would remove an intersection along a horizontal curve, further improving traffic safety in this area.

Shopiere Road, Inman Parkway intersection

In the short-term, it is recommended to convert the existing side-road stop intersection control to an all-way stop control (Alternative 1). This improvement will improve traffic safety for Inman Parkway motorists as they will be able to enter the intersection while Shopiere Road is under stop-sign control. In addition, travel speeds in the intersection area will be reduced due to the stop-control provision for all intersection approaches.

• In the long-term, both a traffic signal and roundabout are viable alternatives for implementation. Both intersection control strategies help improve traffic operations and traffic safety when compared to the existing side-road stop control. In addition, both alternatives can be constructed in a manner that limits the impacts if the proposed Inman Parkway extension occurs. However, since it is unknown when this roadway extension will take place

Shopiere Road, I-39/90 northbound interchange ramp

- In the short-term, it is recommended that no geometric or intersection control improvements be made to the intersection. While the exit ramp operates at LOS E during the weekday morning peak hour, the number of vehicles traveling through the intersection do not meet warrants for any intersection control upgrades. In addition, the anticipated queues do not impact traffic operations at the interchange diverge area.
- In the long-term, it is recommended that the intersection be converted to a roundabout to accommodate anticipated growth and increasing traffic volumes at this location. The roundabout design will promote slower travel speeds through the intersection and will not require multiple travel or turn lanes to implement.

Other recommendations

In addition to the recommendations previously discussed, there are other locations in the study area that would benefit from improvements, but the improvement is more systemic (e.g., reviewing traffic signal phasing / timing) or the improvement does not have a comparable alternative to evaluate against it. The following describes other recommendations to improve safety, mobility, access, and multimodal accommodations along the Shopiere Road corridor:

- It is recommended that crosswalk pavement markings be monitored and refreshed to maintain their visibility for motorists and bicyclists/pedestrians.
- It is recommended that access management strategies along Shopiere Road be implemented as land uses change and parcels become developed. This improvement will allow for safe and efficient traffic operations along Shopiere Road and help identify locations for proper access driveway design.
- It is recommended that traffic signal equipment is reviewed for improved visibility and clarity for motorists. Examples of this include inspecting and adding backplates (or retroreflective backplates) to each signal head, checking the placement of overhead signal heads over each through or turn lane, and examining the placement of each signal head to ensure that motorists can clearly see them without obstruction. In addition, traffic signal timing plans should be reviewed to determine appropriate green times, clearance intervals, and other phasing parameters for safe, efficient travel through the intersection.
- It is recommended that right of way be preserved along Shopiere Road from Inman Parkway to I-39 / 90 to accommodate any roadway widening, such as a left-turn lane, which may be needed to accommodate development of parcels in this area.

8 Appendix

Appendix A: Intersection Turning Movement Counts

Appendix B: Existing-Year (Year 2024) Traffic Operations

Analysis Worksheets

Appendix C: Future-Year (Year 2049) Traffic Operations

Analysis Worksheets

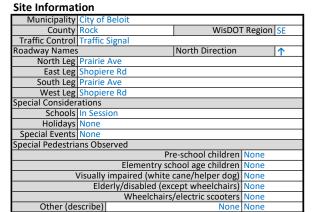
Appendix A: Intersection Turning Movement Counts

Intersection Traffic Volume Report

Count Basics Version 2011.33 Page 1 of 11 Start Date: Tuesday, May 14, 2024 Weekday Schools in Session Total Number of Hours Counted: 6 Non-Holiday No Special Events

Base Information, Observed (6) Hour and Estimated (24) Hour Volume Summaries

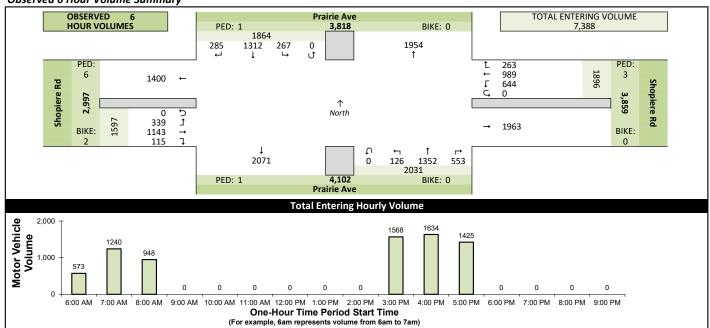
Intersection of: Prairie Ave and Shopiere Rd



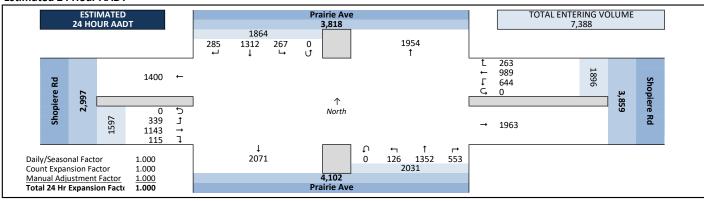
Count Information

Count information	-1 (10
Hrs Counted: 6:00 AM - 9:00 AM and 3:00	PM to 6:00 PM
Count Dates	Weather
AM Peak Period Tuesday, May 14, 202	Clear & Dry
Midday Peak Period Tuesday, May 14, 202	
PM Peak Period Tuesday, May 14, 202	Clear & Dry
Calculated Peak Hours	
AM 7:15-8:15am MD	PM 3:45-4:45pm
Peak Hours Selected for Analysis	
AM 7:15-8:15am MD	PM 3:45-4:45pm
Daily/Seasonal Adjustment Group (2) Ur	ban Arterials & Collectors
Count Expansion Group (4) Ru	ural Arterials & Collectors
Daily/Seasonal Adjustment Factor 1.000	Count Expansion Factor 1.000
Company Name AECOM	Manual Adj. 1.000
Observers AM Peak Period MioV	
Midday Peak Period MioV	
PM Peak Period MioV	ision
Comments	

Observed 6 Hour Volume Summary



Estimated 24 Hour AADT

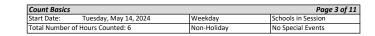


Intersection Traffic Volume Report

Peak Hour Volume Summary

Prairie Ave and Shopiere Rd

Peak Hour Volumes. Truck Percentages, and PHFs





Tuesday, May 14, 2024 From North								← From East				↑ From South						→ From West					
	AM Peak Hour		Pr	airie A	ve		Shopiere Rd						Pr	airie A	/e								
	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals	
	7:15 AM	5	35	12	0	52	3	59	17	0	79	20	61	3	0	84	1	44	9	0	54	269	
×	7:30 AM	7	55	12	0	74	7	70	23	0	100	28	78	6	0	112	2	64	17	0	83	369	
후	7:45 AM	17	43	11	0	71	10	53	33	0	96	29	70	5	0	104	6	66	25	0	97	368	
Ĭž	8:00 AM	13	41	18	0	72	2	45	28	0	75	16	53	2	0	71	2	44	24	0	70	288	
ja G	Peak Hour Volume	42	174	53	0	269	22	227	101	0	350	93	262	16	0	371	11	218	75	0	304	1294	
١ş	Rounded Hourly Volume	40	175	55	0	270	20	225	100	0	345	95	260	15	0	370	10	220	75	0	305	1290	
₹	% Single Unit Trucks	0.0	1.7	3.8	0.0	1.9	9.1	1.3	5.9	0.0	3.1	2.2	0.0	6.2	0.0	0.8	0.0	3.2	2.7	0.0	3.0	2.2	
	% Heavy Trucks	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	0.0	
	% Trucks (Total)	0.0	1.7	3.8	0.0	1.9	9.1	1.3	5.9	0.0	3.1	2.2	0.0	6.2	0.0	0.8	0.0	3.2	2.7	0.0	3.0	2.2	
	Peak Hour Factor (PHF)	0.62	0.79	0.74	0.00	0.91	0.55	0.81	0.77	0.00	0.87	0.80	0.84	0.67	0.00	0.83	0.46	0.83	0.75	0.00	0.78	0.88	

N/	N/A From North							Fre	← om Ea	st		↑ From South						→ From West					
Г	MD Peak Hour Prairie Ave							Sho	piere	Rd			Pr	airie A	ve								
L	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals	
13	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1 7	12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
00	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
٦	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	Peak Hour Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	Rounded Hourly Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
P	% Single Unit Trucks	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	0.0	
Ιį	% Heavy Trucks	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	0.0	
<	% Trucks (Total)	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	0.0	
	Peak Hour Factor (PHF)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Tu	Tuesday, May 14, 2024 From North						Fr	↑ From South						→ From West								
	PM Peak Hour		Pr		Shopiere Rd					Pr	airie A	/e										
	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
	3:45 PM	21	77	11	0	109	14	44	33	0	91	39	73	5	0	117	10	61	24	0	95	412
l	4:00 PM	18	115	11	0	144	18	47	36	0	101	35	67	7	0	109	5	72	11	0	88	442
١ş	4:15 PM	18	80	14	0	112	24	49	38	0	111	27	63	8	0	98	10	68	14	0	92	413
Ιž	4:30 PM	18	85	15	0	118	14	40	32	0	86	35	55	10	0	100	4	80	6	0	90	394
J _e	Peak Hour Volume	75	357	51	0	483	70	180	139	0	389	136	258	30	0	424	29	281	55	0	365	1661
Ιŝ	Rounded Hourly Volume	75	355	50	0	480	70	180	140	0	390	135	260	30	0	425	30	280	55	0	365	1660
٦	% Single Unit Trucks	1.3	1.4	2.0	0.0	1.4	2.9	1.7	2.2	0.0	2.1	0.0	1.6	3.3	0.0	1.2	0.0	0.4	5.5	0.0	1.1	1.4
	% Heavy Trucks	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	0.0
	% Trucks (Total)	1.3	1.4	2.0	0.0	1.4	2.9	1.7	2.2	0.0	2.1	0.0	1.6	3.3	0.0	1.2	0.0	0.4	5.5	0.0	1.1	1.4
	Peak Hour Factor (PHF)	0.89	0.78	0.85	0.00	0.84	0.73	0.92	0.91	0.00	0.88	0.87	0.88	0.75	0.00	0.91	0.72	0.88	0.57	0.00	0.96	0.94

Peak Hour Pedestrian and Bicyclist Volumes

Pe	destrians and Bicyclists	Cr	ossing 🖆	-	Cr	ossing		Cr	ossing	Dept.	Cr	Total		
	7	North App	roach		East App	roach	T.	South App	roach 🕶	-	West App	oroach 🗼		Ped &
	N 010	Pr	airie Ave		Sho	opiere Rd		Pr	airie Ave		Sh	opiere Rd		Bike
	15-Minute Start Time	Pedestrian	Bicyclist	Total	Volume									
	7:15 AM	0	0	0	0	0	0	0	0	0	1	0	1	1
_	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
I≩	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
`	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	1	0	1	1
	-													
	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
_	12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
8	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
_	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	1	0	1	0	0	0	0	1	1	2
_	4:00 PM	0	0	0	0	0	0	0	0	0	4	0	4	4
I≅	4:15 PM	0	0	0	0	0	0	0	0	0	0	1	1	1
	4:30 PM	0	0	0	0	0	0	0	0	0	1	0	1	1
	Total	0	0	0	1	0	1	0	0	0	5	2	7	8

15-Minute Motor Vehicle Data

Prairie Ave and Shopiere Rd

15-Minute Motor Vehicle Data

 Count Basics
 Page 5 of 11

 Start Date:
 Tuesday, May 14, 2024
 Weekday
 Schools in Session

 Total Number of Hours Counted: 6
 Non-Holiday
 No Special Events



	Minute N			om No				Fı	← rom E	ast			Fr	↑ om So	uth			Fı	→ rom W	/est				
	e Period			rairie A					opiere					rairie A					hopiere			15-Min	Hourly	
Star	t Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals	Sum	PHF
	6:00 AM	5	20	10	0	35	5	8	4	0	17	13	15	2	0		2	22	8		32	114	573	
	6:15 AM 6:30 AM	0 8	13 22	3	0	16 34	7	16 23	17 12	0	37 42	9 15	26 33	4	0		3 2			0	31 48	123 173	693 839	
	6:45 AM	5	19	9	0	33	8	17	21	0	46	13	42	0	0		0			0	29	163	1035	_
75	7:00 AM	12	34	12	0	58	11	37	18	0	66	15	52	6	0	73	1	33	3	0	37	234	1240	
Period	7:15 AM	5 7	35 55	12 12	0	52 74	3 7	59 70	17	0	79 100	20 28	61	3	0		2			0	54 83	269	1294 1275	
	7:30 AM 7:45 AM	17	43	11	0	74	10	53	23 33	0	96	28	78 70	6 5	0		6		25	0	97	369 368	1123	
Peak	8:00 AM	13	41	18	0	72	2	45	28	0	75	16	53	2	0		2			0	70	288	948	
1 P	8:15 AM	20	47	9	0	76	9	39	9	0	57	12	61	3	0				19	0	41	250		
AM	8:30 AM 8:45 AM	9	37 31	11 12	0	57 47	11 5	23 34	22 14	0	56 53	9 17	49 35	5 2	0		3 2		_	0	41 39	217 193		
	9:00 AM	0			0	0	0	0	0	0	0	0	0		0		0				0			
	9:15 AM	0			0	0	0	0	0		0	0	0		0						0			
	9:30 AM 9:45 AM	0			0	0	0	0	0		0				0						0			
	10:00 AM	0			0	0	0	0	0		0				0		_	_	_		0		-	\vdash
	10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	10:30 AM	0			0	0	0	0	0		0	0	0		0		0		_		0			
ø	10:45 AM 11:00 AM	0			0	0	0	0	0	0	0	0	0		0		0		_	-	0			
Period	11:15 AM	0			0	0	0	0	0	0	0	0	0	0	0		0		_		0			1
	11:30 AM	0			0	0	0	0	0		0	0	0		0		0		_		0			
Peak	11:45 AM	0			0	0	0	0	0		0	0			0		_	_			0			
	12:00 PM 12:15 PM	0			0	0	0	0	0	0	0	0	0		0		0				0			
Midday	12:30 PM	0			0	0	0	0	0	-	0	0			0					_	0			
Ž	12:45 PM	0			0	0	0	0	0	0	0	0	0		0		0	_	_		0			
	1:00 PM 1:15 PM	0			0	0	0	0	0		0	0	0		0					-	0			
	1:30 PM	0			0	0	0	0	0	0	0	0	0		0		0		_		0			
	1:45 PM	0		0	0	0	0	0	0	_	0	0			0	0	0	0	0		0	0		
	2:00 PM 2:15 PM	0				0	0	0	0		0				0						0			
	2:30 PM	0			0	0	0	0	0	0	0	0	0		0		0		_		0			
	2:45 PM	0			0	0	0	0	0	0	0	0	0		0				_	_	0			
	3:00 PM	14	78	11	0	103	14	47	48	0	109	23	81	8	0		8			0	77	401	1568	
	3:15 PM 3:30 PM	17 12	71 66	11 9	0	99 87	14 12	55 45	29 33	0	98 90	26 31	70 57	8	0		9 6		_	0	68 115	369 386	1609 1653	
	3:45 PM	21	77	11	0	109	14	44	33	0	91	39	73	5	0		10			0	95	412	1661	_
	4:00 PM	18	115	11	0	144	18	47	36	0	101	35	67	7	0	109	5	72	11	0	88	442	1634	0.92
	4:15 PM	18	80	14	0	112	24	49	38	0	111	27	63	8	0		10			0	92	413	1574	_
	4:30 PM 4:45 PM	18 15	85 77	15 9	0	118 101	14 12	40 45	32 34	0	86 91	35 41	55 65	10 4	0		4			0	90 83	394 385	1555 1520	
	5:00 PM	4	81	15	0	100	13	55	36	0	104	22	69	10	0		8		_	0	77	382	1425	0.90
Period	5:15 PM	25	74	10	0	109	14	52	39	0	105	27	57	10	0		9		_	0	86	394		
	5:30 PM 5:45 PM	10 8	59 52	14 14	0	83 74	20 12	52 34	35 33	0	107 79	29 22	71 49	5 6	0		6 11	46 37	12 12	0	64 60	359 290	-	
Peak	6:00 PM	0			0	0	0	0	33 0	0		0	49		0						0			
Pe	6:15 PM	0		_	0	0	0	0	0	0	0		0		0		0	_	_	_	0			
PM	6:30 PM	0			0	0	0	0			0				0					-	0			
	6:45 PM 7:00 PM	0			0	0	0	0	0		0	0			0						0			-
	7:15 PM	0				0	0	0	0		0				0						0			t
	7:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	7:45 PM	0		_		0	0	0	0	_	0				0			_		_	0			-
	8:00 PM 8:15 PM	0				0	0	0	0		0				0		-		_		0			1
	8:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0		
	8:45 PM	0				0	0	0	0	-	0	_			0				_	-	0			
	9:00 PM 9:15 PM	0			-	0	0	0	0	-	0	0			0			-	_	-	0			<u> </u>
	9:30 PM	0			0	0	0	0	0	_	0	0			0				_		0			
	9:45 PM	0				0	0	0	0		0	0	0	0	0			_	_	_	0			
Tota	als	285	1312	267	0	1864	263	989	644	0	1896	553	1352	126	0	2031	115	1143	339	0	1597	7388		

Peak Hour	All Vahida	Valuma	Cummanı
reak Hour	All Venicle	volume	Summarv

				$\overline{\mathbf{v}}$					+					<u> </u>					→			
Ηοι	ırly		Fre	om No	orth			F	rom E	ast			Fre	om So	uth			Fr	om W	est		Total
Tim	e Period		P	rairie <i>F</i>	lve			Sł	opiere	Rd			P	rairie <i>A</i>	lve			Sh	opiere	Rd		Hourly
Star	tart Time Right Thru Left U-Tn Total					Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume
AM	7:15 AM	42	174	53	0	269	22	227	101	0	350	93	262	16	0	371	11	218	75	0	304	1294
MD	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	3:45 PM	75	357	51	0	483	70	180	139	0	389	136	258	30	0	424	29	281	55	0	365	1661

PHF
0.88
0.94

15-Minute Heavy Vehicle Data

Prairie Ave and Shopiere Rd

15-Minute Heavy Vehicle Data

Page 9 of 11
Schools in Session
No Special Events Count Basics
Start Date: Tuesday, May 14, 2024
Total Number of Hours Counted: 6 Weekday Non-Holiday



15-N	/linute			₩ om No	orth			F	← rom E	ast			Fr	↑ om Sc	outh			Fr	→ om V	/est			
Time	e Period		Pı	rairie A	Ave			Sł	opiere	e Rd			Р	rairie /	Ave			Sh	opier	e Rd		15-Min	Hourly
Star	t Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals	Sum
	6:00 AM	1	0	1	0	2	0					_				1	0	0			0	3	2
	6:15 AM	0	0	0		0	0		0							4	0	0			0		3
	6:30 AM	1	2	0		3	1		2			0			-	1	0		0		1	9	3
	6:45 AM 7:00 AM	1	0	0		1	1 2		1			1 0	3	_	_	<u>4</u> 1	0	1 2	1	_	2	10 8	3
þ	7:15 AM	0	0	2	0	2	0		0			0	0	0		0	0	1	1	0	3	- 0	2
Period	7:30 AM	0	0	0		0	1	1	4				0			2	0	_	0		1	9	3
P	7:45 AM	0	0	0		0	1	0	1			0		_		0	0		1	_	4	6	4
Peak	8:00 AM	0	3	0		3	0		1			1	0			1	0		0		2	8	4
Pe	8:15 AM	1	7	0	0	8	2	0	1	0	3	0	2	1	0	3	0	0	2	0	2	16	
AM	8:30 AM	0	5	0		5	1		2							1	0		0		1	11	
`	8:45 AM	0	1	0	0	1	0		0			1	3	_		4	0	1	1	_	2	9	
	9:00 AM	0	0	0		0	0		0							0	0	0			0	0	
	9:15 AM 9:30 AM	0	0	0		0			0			-				0	0	0		_	0	0	
	9:45 AM	0		0		0			0	_				_		0	0	-			0		
	10:00 AM	0		0		0	_		0	_		_	_	_	_	0	_	_	_		0	_	
	10:15 AM	0	0	0		0			0							0	0	0			0	0	
	10:30 AM	0	_	0		0			0					_		0	0				0	0	
	10:45 AM	0		0		0			0							0	0				0		
jod	11:00 AM	0	0	0	_	0	0		0					_		0	0	0			0	0	
Perioa	11:15 AM	0	0	0		0	_		0		_					0	0	-	_		0		
	11:30 AM 11:45 AM	0	_	0		0			0			-				0	0				0	_	-
Peak	11:45 AM 12:00 PM	0	0	0		0	0		0	_		_		_		0	0	_	_	_	0	0	
	12:15 PM	0		0		0			0							0	0	-			0		
Midday	12:30 PM	0	0	0		0			0	_				_		0	0				0	0	
Jia l	12:45 PM	0	0	0		0			0							0	0	-			0		
<	1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1:30 PM	0	0	0	0	0	0		0			0	_			0	0	0			0	0	
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	2:30 PM	0	_	0		0			0							0	0				0		
	2:45 PM	0	0	0	_	0			0	_		0		_	-	0	0			_	0	0	
	3:00 PM	0	0	1	0	1	1		2			0				3	0	3	0		3	12	3
	3:15 PM	0	0	0	0	0	0	1	1	0	2	1	1	0	0	2	0	1	1	0	2	6	3
	3:30 PM	0	0	1	0	1	1		3			0				6	0	2	1		3	14	3
	3:45 PM	0	1	0		1	0		0							2	0				2	5	2
	4:00 PM	1	1	1	0	3	0		1			0		0		1	0		0		1	7	2
	4:15 PM	0	0	0		0			0			0				1	0	_			1	5	1
	4:30 PM 4:45 PM	0	3	0		0	1 0		<u>2</u>		_	0		1		1	0				0 1	3	1
	5:00 PM	0	0	0		0	_		1			0		1		2	0				0	5	1
po	5:15 PM	0		0		0			0					0		1	0	-			1	2	<u> </u>
Period	5:30 PM	1	0	1	0	2	0		2			0				0	1	0		_	1	6	
~	5:45 PM	0	1	0	0	1	0	0	0	0	0				0	1	0	0	0	0	0	2	
Peal	6:00 PM	0	_	0		0	0		0	_			_			0	0	_			0		
	6:15 PM	0	_	0	0	0			0	_		0	0	_		0	0			_	0	0	
PM	6:30 PM	0		0	_	0	0	_	0			0	0			0	0		_	_	0	0	
	6:45 PM	0		0		0			0							0					0		
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	7:45 PM	0		0		0								_		0				_	0		
	8:00 PM	0	_	0		0	_									0		-			0		
	8:15 PM	0		0		0				_		-		_		0	0	0		_	0	0	
	8:30 PM	0		0		0										0			_		0		
	8:45 PM	0	_	0	_	0	_			_				_		0				_	0		
	9:00 PM	0		0		0			0					_		0					0		
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		7				_	_		26	_	_	_	_		_		_			_		_	
Tota	II)	/	24	7	U	38	14	Τρ	26	1 0	56	5	25	13	U	43	1	21	13	U	35	172	

Dook	Harr	Llana	Vahida	Valuma	Summary

				Ψ					+					1					→			
Ho	urly		Fre	om No	orth			F	rom E	ast			Fr	om Sc	uth			Fr	om W	/est		Total
Tin	ne Period		P	rairie A	٩ve			SI	nopiere	Rd			P	rairie A	Ave			Sł	opiere	Rd		Hourly
Sta	rt Time Right Thru Left U-Tn Tota						Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume
ΑN	7:15 AM	0	3	2	0	5	2	3	6	0	11	2	0	1	0	3	0	7	2	0	9	28
ME	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	3:45 PM	1	5	1	0	7	2	3	3	0	8	0	4	1	0	5	0	1	3	0	4	24

Version 2011.J3 Page 1 of 11 Weekday Non-Holiday Schools in Session No Special Events Tuesday, May 14, 2024

Base Information, Observed (3) Hour and Estimated (24) Hour Volume Summaries

Intersection of: Prairie Ave and Bayliss Ave

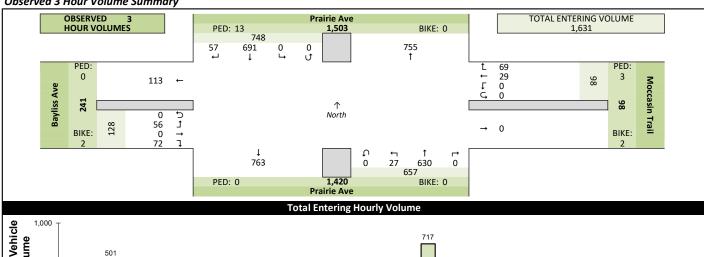
Site Information

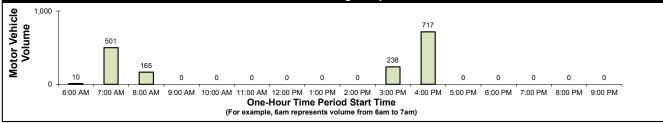
Municipality	City of	Beloit			
County	Rock		WisDOT	Region	SE
Traffic Control	Traffic	Signal			
Roadway Names			North Direction		<u> </u>
North Leg	Prairie	Ave			
East Leg	Moccas	sin Trail			
South Leg	Prairie	Ave			
West Leg		Ave	•		
Special Consider					
Schools	In Sessi	ion			
Holidays					
Special Events					
Special Pedestria	ns Obs				
		Pre	e-school children	None	
		Elementry sch	nool age children	None	
, ·		impaired (white			
	Elde	erly/disabled (exc			
		Wheelchairs	electric scooters	None	
Other (de	scribe)		None	None	

Count Information

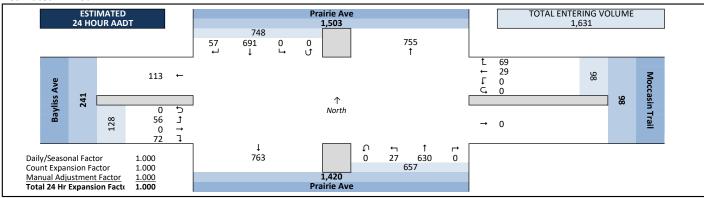
Count information			OF 110
Hrs Counted: 6:00 AM - 9:00 AM a	nd 3:00 PM to 6:00 PM		
Count Dates		Weath	ner
AM Peak Period Tuesday, May	14, 2024	Clear	& Dry
Midday Peak Period Tuesday, May	14, 2024	Clear	& Dry
PM Peak Period Tuesday, May	14, 2024	Clear	& Dry
Calculated Peak Hours		•	
AM 7:15-8:15am MD		PM	3:45-4:45pm
Peak Hours Selected for Analysis			
AM 7:15-8:15am MD		PM	3:45-4:45pm
Daily/Seasonal Adjustment Grou	p (2) Urban Arterials & Collectors		,
Count Expansion Grou	p (4) Rural Arterials & Collectors		
Daily/Seasonal Adjustment Facto	or 1.000 Count Ex	pansior	Factor 1.000
Company Name AECOM		Man	ual Adj. 1.000
Observers AM Peak Perio			
Midday Peak Perio	d MioVision		
PM Peak Perio	d MioVision		
Comments	-		

Observed 3 Hour Volume Summary





Estimated 24 Hour AADT



Peak Hour Volume Summary

Prairie Ave and Bayliss Ave

ve and Bayliss Ave

Count Basics			Page 3 of 11
Start Date:	Tuesday, May 14, 2024	Weekday	Schools in Session
Total Number	of Hours Counted: 3	Non-Holiday	No Special Events



Tu	esday, May 14, 2024		Ero	₩ m No	rth			Ere	← om Ea	c+			Ero	↑ m Sou	ıth			Ero	→ m We	oct.		
_	AM Peak Hour			airie A					casin T					airie A					yliss A			
	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
	7:15 AM	4	43	0	0	47	2	1	0	0	3	0	79	2	0	81	8	0	4	0	12	143
×	7:30 AM	5	62	0	0	67	5	0	0	0	5	0	84	3	0	87	10	0	5	0	15	174
16	7:45 AM	2	62	0	0	64	8	3	0	0	11	0	95	1	0	96	7	0	6	0	13	184
1×	8:00 AM	5	62	0	0	67	4	0	0	0	4	0	80	1	0	81	9	0	4	0	13	165
) Je	Peak Hour Volume	16	229	0	0	245	19	4	0	0	23	0	338	7	0	345	34	0	19	0	53	666
2	Rounded Hourly Volume	15	230	0	0	245	20	5	0	0	25	0	340	5	0	345	35	0	20	0	55	670
¥	% Single Unit Trucks	6.2	1.7	0.0	0.0	2.0	10.5	0.0	0.0	0.0	8.7	0.0	1.2	0.0	0.0	1.2	2.9	0.0	0.0	0.0	1.9	1.8
	% Heavy Trucks	0.0	0.0	0.0	0.0	0.0	5.3	25.0	0.0	0.0	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
	% Trucks (Total)	6.2	1.7	0.0	0.0	2.0	15.8	25.0	0.0	0.0	17.4	0.0	1.2	0.0	0.0	1.2	2.9	0.0	0.0	0.0	1.9	2.1
	Peak Hour Factor (PHF)	0.80	0.92	0.00	0.00	0.91	0.59	0.33	0.00	0.00	0.52	0.00	0.89	0.58	0.00	0.90	0.85	0.00	0.79	0.00	0.88	0.90

N/	А		Fro	₩ m No	rth			Fre	← om Ea	st			Fro	↑ m Sou	ıth			Fro	→ om We	est		
Г	MD Peak Hour		Pr	airie A	ve			Mod	casin 1	rail			Pr	airie A	ve			Ва	yliss A	ve		
L	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
13	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 7	12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
٦	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	Peak Hour Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Rounded Hourly Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P	% Single Unit Trucks	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	0.0
Ιį	% Heavy Trucks	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	0.0
<	% Trucks (Total)	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	0.0
	Peak Hour Factor (PHF)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Tue	esday, May 14, 2024		Fro	₩ m No	rth			Fre	← om Ea	st			Fro	↑ m Sou	ıth			Fro	→ om We	est		
	PM Peak Hour		Pr	airie A	ve			Mod	casin 1	rail			Pr	airie A	ve			Ва	yliss A	ve		
	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
	3:45 PM	4	98	0	0	102	9	8	0	0	17	0	88	5	0	93	14	0	12	0	26	238
۱×	4:00 PM	9	138	0	0	147	11	9	0	0	20	0	68	5	0	73	6	0	13	0	19	259
١ĕ	4:15 PM	17	109	0	0	126	18	5	0	0	23	0	72	6	0	78	10	0	5	0	15	242
ΙŽ	4:30 PM	10	114	0	0	124	11	3	0	0	14	0	60	4	0	64	7	0	7	0	14	216
۱ ۾	Peak Hour Volume	40	459	0	0	499	49	25	0	0	74	0	288	20	0	308	37	0	37	0	74	955
ΙĒ	Rounded Hourly Volume	40	460	0	0	500	50	25	0	0	75	0	290	20	0	310	35	0	35	0	70	955
ء	% Single Unit Trucks	2.5	0.7	0.0	0.0	0.8	2.0	0.0	0.0	0.0	1.4	0.0	1.4	0.0	0.0	1.3	2.7	0.0	0.0	0.0	1.4	1.0
	% Heavy Trucks	2.5	0.7	0.0	0.0	0.8	4.1	0.0	0.0	0.0	2.7	0.0	0.7	0.0	0.0	0.6	2.7	0.0	0.0	0.0	1.4	0.9
	% Trucks (Total)	5.0	1.3	0.0	0.0	1.6	6.1	0.0	0.0	0.0	4.1	0.0	2.1	0.0	0.0	1.9	5.4	0.0	0.0	0.0	2.7	2.0
	Peak Hour Factor (PHF)	0.59	0.83	0.00	0.00	0.85	0.68	0.69	0.00	0.00	0.80	0.00	0.82	0.83	0.00	0.83	0.66	0.00	0.71	0.00	0.71	0.92

Pe	destrians and Bicyclists	Cr	ossing 🖆	-	Cr	ossing		Cr	ossing	201	Cr	ossing 🛔	Age .	Total
	۶. ۲	North App	roach		East App	roach	T.	South App	roach 🕶	-	West App	oroach 🕡		Ped &
	N 010	Pr	airie Ave		Mod	casin Trail		Pr	airie Ave		Ва	yliss Ave		Bike
	15-Minute Start Time	Pedestrian	Bicyclist	Total	Pedestrian	Bicyclist	Total	Pedestrian	Bicyclist	Total	Pedestrian	Bicyclist	Total	Volume
	7:15 AM	1	0	1	0	0	0	0	0	0	0	0	0	1
_	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
≩	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
l `	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	1	0	1	0	0	0	0	0	0	0	0	0	1
	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
٦	12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
§	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Ι ີ	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0
l	3:45 PM	1	0	1	2	2	4	0	0	0	0	0	0	5
	4:00 PM	9	0	9	1	0	1	0	0	0	0	0	0	10
۱₹	4:15 PM	2	0	2	0	0	0	0	0	0	0	1	1	3
Ι ີ	4:30 PM	0	0	0	0	0	0	0	0	0	0	1	1	1
	Total	12	0	12	3	2	5	0	0	0	0	2	2	19

15-Minute Motor Vehicle Data

Prairie Ave and Bayliss Ave

15-Minute Motor Vehicle Data

 Count Basics
 Page 5 of 11

 Start Date:
 Tuesday, May 14, 2024
 Weekday
 Schools in Session

 Total Number of Hours Counted: 3
 Non-Holiday
 No Special Events



Section Price Pr		iviinute i	riotoi	veille		ıta																			_
Start Time															om Sc										
Company Comp	Tim	e Period		P	rairie	Ave				ccasin	Trail			P	rairie /	\ve		L.,	В	ayliss A	ve		15-Min	Hourly	1 1
Signature Sign	Star		Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals	Sum	_
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Company Comp						_											0					0			
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No. Color Color	g	11:00 AM	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
No. Color Color	ëri	11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	ğ	11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0		
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Peak Hour All Vehicle Volume Summary

				$\overline{\mathbf{V}}$					+					<u> </u>					→			
Hou	ırly		Fre	om No	orth			F	rom E	ast			Fr	om So	uth			Fr	om W	est		Total
Tim	e Period		P	rairie A	Ave			Мс	ccasin	Trail			P	rairie A	lve			В	ayliss A	ve		Hourly
Star	rt Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume
ΑM	7:15 AM	16	229	0	0	245	19	4	0	0	23	0	338	7	0	345	34	0	19	0	53	666
MD	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	3:45 PM	40	459	0	0	499	49	25	0	0	74	0	288	20	0	308	37	0	37	0	74	955

PHF
0.90
0.92

15-Minute Heavy Vehicle Data

Prairie Ave and Bayliss Ave

15-Minute Heavy Vehicle Data

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Schools in Session
No Special Events Count Basics
Start Date: Tuesday, May 14, 2024
Total Number of Hours Counted: 3 Weekday Non-Holiday



15-1	Minute		Fro	↓ om No	orth			F	← rom Ea	st			Fr	↑ om Sc	uth			Fr	→ om V	Vest			
Tim	e Period		P	rairie <i>l</i>				Mo	ccasin 1	rail			P	rairie A	Ave			В	ayliss	Ave		15-Min	Hourly
Star	rt Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals	Sum
	6:00 AM	0	1	0		1	0		-	0	0	0		_	_	2	0	0					10
	6:15 AM	0	0	0		0	1	0		0	1	0				0	0	0				1	
	6:30 AM	1	0	0		1	0			0	0	0		_		1	1	0				3	
	6:45 AM	0	2	0	_	2	0	0	0	0	0	0		_		1	0	0					
g	7:00 AM 7:15 AM	0	0	0		0	0	0	0	0	0	0		0	0	0	0	0				0	14
Period	7:30 AM	0	0	0		0	1	0	0	0	1	0	_	0			0	0				2	14
	7:45 AM	0	0	0	_	0	1	1	0	0	2	0		0		1	0	0	_				
Peak	8:00 AM	0	3	0		3	1	0	0	0	1	0				0	0	0				4	
Pe	8:15 AM	0	0	0		0	0		0	0	0	0				0	0	0				0	
AM	8:30 AM	0	0	0	_	0	0	0	0	0	0	0		_	-	0	_	0	_				
A	8:45 AM	0	0	0		0	0	0	0	0	0	0				0	0	0			0	0	
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(0 0	0	0	
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(0	0	0	
	9:30 AM	0	0	0	_	0	0	0	0	0	0	0		_		0	0	0			0	0	
	9:45 AM	0	0	0	_	0	_	_	_	0	0	0				0	_	0				_	
	10:00 AM	0	0	0		0				0	0					0							
	10:15 AM	0	0	0	_	0	0	0	0	0	0	0		_		0	0	0				0	
	10:30 AM	0	0	0	_	0	0	0		0	0	0			-	0	0	0					
7	10:45 AM 11:00 AM	0	0	0		0	0	0	0	0	0					0		0					
Period		0	0			0	0	0	0	0	0	0				0	0	0	_			0	
Pe	11:15 AM 11:30 AM	0	0	0		0	0		0	0	0	_				0	_	0					
	11:45 AM	0	0	0		0	0	0	0	0	0	0				0	0	0	_				
Peak	12:00 PM	0	0	0	_	0	0	_		0	0	0		_		0		0					
	12:15 PM	0	0	0		0			-	0	0					0	_	0	_				
Midday	12:30 PM	0	0	0	_	0	0	_		0	0	0				0	0	0					
) jo	12:45 PM	0	0	0		0	0		-	0	0	0				0		0					
<	1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(0 0	0	0	
	1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(0	0	0	
	1:30 PM	0	0	0		0	0	0	0	0	0	0				0	0	0					
	1:45 PM	0	0	0	_	0	0	_	_	0	0	_			_	0	_	_		_	_	0	
	2:00 PM	0	0	0		0	0			0	0	0				0		0					
	2:15 PM	0	0	0		0	0	0	0	0	0	0				0	0	0					
	2:30 PM	0	0	0	-	0	0	_		0	0				-	0	_	0	_				
	2:45 PM 3:00 PM	0	0	0		0	0	0	0	0	0	0				0	0	0					
	3:15 PM	0	0	0	_	0	0	0	0	0	0	0			-	0	0	0	_				
	3:30 PM	0	0	0		0	0	0	0	0	0	0				0		0					
	3:45 PM	0	2	0		2	0	_	-	0	0	0				3	1	0	_			6	19
	4:00 PM	0	1	0		1	1	0		0	1	0				0	0	0				-	
	4:15 PM	2	0	0		2	1	0		0	1	0				2	1	0	_		-	6	
	4:30 PM	0	3	0		3	1	0	0	0	1	0		0		1	0	0					
	4:45 PM	0	0	0		0	0	0		0	0	0	0			0	_	0			0	0	
~	5:00 PM	0	0	0		0	0	0	0	0	0	0				0	0	0					
Period	5:15 PM	0	0	0		0	0	0	0	0	0	0				0	0	0		_		0	
Je.	5:30 PM	0	0	0		0	0	0	0	0	0	0				0	0	0					
	5:45 PM	0	0	0		0	0	0	0	0	0	0	_			0	0	0					
Peak	6:00 PM	0	0	0	_	0	0	0	0	0	0	0			_	0	0	0	_				
_	6:15 PM	0	0	0		0	0	0	0	0	0	0				0	0	0	_	_		0	
P	6:30 PM 6:45 PM	0	0	0	_	0	0	0	0	0	0	0	_	_	-	0	0	0	_			0	
	7:00 PM	0	0	0		0				0						0		0					
	7:15 PM	0	0	0		0			-	0	0					0							
	7:30 PM	0	0	0		0			_	0	0			_		0			_	_			
	7:45 PM	0	0	0	_	0				0	0	_				0	_	0	_				
	8:00 PM	0	0	0		0				0						0							
	8:15 PM	0	0	0		0			_	0	0			_		0			_	_			
	8:30 PM	0	0	0		0				0	0					0		0					
	8:45 PM	0	0	0		0				0	0	0				0					0		
	9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	
	9:15 PM	0	0	0		0	0	0		0	0	0	0	0	0	0	0	0	C	0	0	0	
	9:30 PM	0	0	0	_	0			-	0	0	0				0		0					
	9:45 PM	0	0	0		0	_	_		0		_			_	0	_			_	_	_	
	als	4	13	0	0	17	7	1	0	0	8	0	14	0	0	14	4	0	C	0	4	43	

Peak Hour Heavy Vehicle Volume Summary

																						_
1				Ψ					←					lack					→			l I
Но	urly		Fr	om No	orth			F	rom E	ast			Fr	om Sc	uth			Fr	om W	/est		Total
Tin	ne Period							Мо	occasin	Trail			P	rairie A	٩ve			В	ayliss /	Ave		Hourly
Sta	rt Time					Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume
ΑN	7:15 AM	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			5	3	1	0	0	4	0	4	0	0	4	1	0	0	0	1	14	
ME	12:00 PM				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PM	3:45 PM	2 6 0 0				8	3	0	0	0	3	0	6	0	0	6	2	0	0	0	2	19

Version 2011.J3 Page 1 of 11 Tuesday, May 14, 2024 Weekday No Special Events

Base Information, Observed (6) Hour and Estimated (24) Hour Volume Summaries

Intersection of: Shopiere Rd and Moccasin Trail



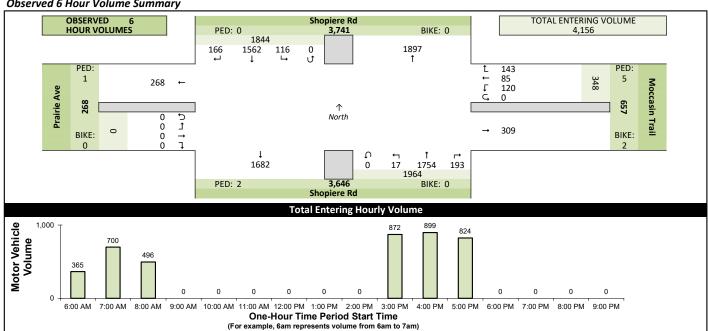
Pre-school children None Elementry school age children None Visually impaired (white cane/helper dog) None Elderly/disabled (except wheelchairs) None Wheelchairs/electric scooters None

Count Information

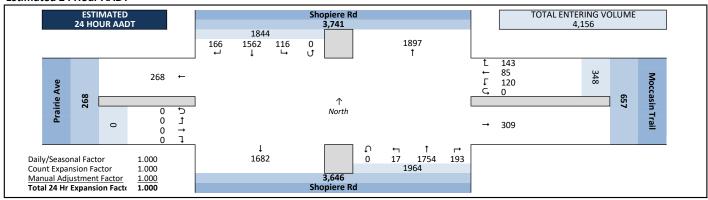
	•							
Hrs Co	unted:	6:00 AM - 9:00	AM and	3:00 P	M to 6:00 PM			
Count	Dates						Weath	er
Al	M Peak	Period Tuesday	, May 1	4, 2024	1		Clear 8	≩ Dry
Midda	ay Peak	Period Tuesday	, May 1	4, 2024	1		Clear 8	& Dry
PI	M Peak	Period Tuesday	, May 1	4, 2024	1		Clear 8	& Dry
Calcula	ated Pea	ak Hours						
	AM	7:15-8:15am	MD				PM	3:45-4:45pm
Peak H	lours Se	lected for Analy	/sis					
	AM	7:15-8:15am	MD				PM	3:45-4:45pm
Dail	y/Seaso	nal Adjustment	Group	(2) Urb	an Arterials &	Collectors		•
	С	Count Expansion	Group	(4) Rur	al Arterials & (Collectors		
Dail	y/Seaso	nal Adjustment	Factor	1.000		Count Exp	ansion	Factor 1.000
Co	ompany	Name AECOM					Manu	ual Adj. 1.000
Ob:	servers	AM Peak	Period	MioVis	sion			
		Midday Peak	Period	MioVis	sion			
		PM Peak	Period	MioVis	sion			
Con	nments							

Observed 6 Hour Volume Summary

Other (describe)



Estimated 24 Hour AADT



Peak Hour Volume Summary

Shopiere Rd and Moccasin Trail

 Count Basics
 Page 3 of 11

 Start Date:
 Tuesday, May 14, 2024
 Weekday
 Schools in Session

 Total Number of Hours Counted: 6
 Non-Holiday
 No Special Events



												_				•		-				
Pe	ak Hour Volumes, Truck	Perc	entage	es, an	d PH	Fs																
Tu	esday, May 14, 2024			$\overline{\mathbf{A}}$					+					1					→			
			Fro	m No	rth			Fr	om Ea	st			Fro	m Sou	ıth			Fro	m We	est		
	AM Peak Hour		Sho	opiere	Rd			Mod	casin 1	rail			Sh	opiere	Rd			Pra	irie A	ve		
	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
	7:15 AM	1	74	2	0	77	3	1	8	0	12	5	65	0	0	70	0	0	0	0	0	159
Ħ	7:30 AM	2	91	2	0	95	2	4	9	0	15	4	92	0	0	96	0	0	0	0	0	20
오	7:45 AM	6	79	1	0	86	4	3	6	0	13	10	96	1	0	107	0	0	0	0	0	20
×	8:00 AM	2	66	6	0	74	5	2	3	0	10	10	70	0	0	80	0	0	0	0	0	164
Pec	Peak Hour Volume	11	310	11	0	332	14	10	26	0	50	29	323	1	0	353	0	0	0	0	0	735
S	Rounded Hourly Volume	10	310	10	0	330	15	10	25	0	50	30	325	0	0	355	0	0	0	0	0	735
Ā	% Single Unit Trucks	9.1	2.9	0.0	0.0	3.0	28.6	20.0	0.0	0.0	12.0	6.9	2.2	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	3.4
	% Heavy Trucks	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	0.0
	% Trucks (Total)	9.1	2.9	0.0	0.0	3.0	28.6	20.0	0.0	0.0	12.0	6.9	2.2	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	3.4
	Peak Hour Factor (PHF)	0.46	0.85	0.46	0.00	0.87	0.70	0.62	0.72	0.00	0.83	0.72	0.84	0.25	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.89

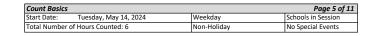
N/	A		Fro	₩ m No	rth			Fre	← om Ea	st			Fro	↑ m Sou	ıth			Fro	→ om We	est		
	MD Peak Hour		Sho	piere	Rd			Mod	casin 1	rail			Sh	opiere	Rd			Pr	airie A	ve		
۱,	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
1 2	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 7	12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ea	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
٦	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	Peak Hour Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Rounded Hourly Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
g	% Single Unit Trucks	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	0.0
إزا	% Heavy Trucks	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	0.0
<	% Trucks (Total)	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	0.0
	Peak Hour Factor (PHF)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Tue	esday, May 14, 2024		From North Shopiere Rd					Fre	← om Ea	st			Fro	↑ m Sou	ıth			Fro	→ om We	est		
	PM Peak Hour		Sho	piere	Rd			Mod	casin 1	rail			Sh	opiere	Rd			Pr	airie A	ve		
	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
	3:45 PM	13	80	5	0	98	8	3	3	0	14	16	97	1	0	114	0	0	0	0	0	226
I≒	4:00 PM	19	72	7	0	98	6	2	3	0	11	12	103	1	0	116	0	0	0	0	0	225
١ş	4:15 PM	13	76	11	0	100	12	4	1	0	17	8	102	0	0	110	0	0	0	0	0	227
Ιž	4:30 PM	9	70	8	0	87	9	2	3	0	14	12	115	3	0	130	0	0	0	0	0	231
۶ ا	Peak Hour Volume	54	298	31	0	383	35	11	10	0	56	48	417	5	0	470	0	0	0	0	0	909
ΙĒ	Rounded Hourly Volume	55	300	30	0	385	35	10	10	0	55	50	415	5	0	470	0	0	0	0	0	910
ء	% Single Unit Trucks	0.0	2.3	3.2	0.0	2.1	2.9	9.1	0.0	0.0	3.6	2.1	0.2	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	1.3
	% Heavy Trucks	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	0.0
	% Trucks (Total)	0.0	2.3	3.2	0.0	2.1	2.9	9.1	0.0	0.0	3.6	2.1	0.2	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	1.3
	Peak Hour Factor (PHF)	0.71	0.93	0.70	0.00	0.96	0.73	0.69	0.83	0.00	0.82	0.75	0.91	0.42	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.98

	destrians and Bicyclists			•	Cr	ossing	1	Cr	ossing	and the same	Cr	ossing 🚹	len.	Total
Г	4 6	North App	roach		East App	roach	1	South App	roach 🕶	-	West App	roach 🗼		Ped &
L	N 010	Sho	opiere Rd		Mod	casin Trail		Sho	opiere Rd		Pr	airie Ave		Bike
	15-Minute Start Time	Pedestrian	Bicyclist	Total	Pedestrian	Bicyclist	Total	Pedestrian	Bicyclist	Total	Pedestrian	Bicyclist	Total	Volume
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
_	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
١Ş	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
`	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
١.	12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
18	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
`	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0
							_							
	3:45 PM	0	0	0	0	0	0	1	0	1	0	0	0	1
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
ΙŽ	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	1	0	1	0	0	0	1

15-Minute Motor Vehicle Data

Shopiere Rd and Moccasin Trail





15	-Minute N	Viotor	Vehic	cle Da	ata												_			•		•		_
Г				¥					+					1					→					
15	Minute		Fr	om N	orth			F	rom E	ast			Fr	om Sc	uth			Fr	rom W	/est				
	ne Period			hopier					ccasin					opiere					rairie /			15-Min	Hourly	
Sta	rt Time	Right	Thru	Left	_	Total	Right	Thru	Left	U-Tn	Total	Right		Left	U-Tn	Total	Right	_	Left	U-Tn	Total	Totals		PHF
	6:00 AM 6:15 AM	3 1	9 36	_		16 40	5 6	2	3 2		9 10	4 0	44 35	1	0	49 36	0	_	_	0	0	74 86	365 420	0.81
	6:30 AM	3	37	0			10	2	3			1	55	1		57	0				0	112	493	0.78
	6:45 AM	4	37	1	0	42	0	3	0			4	43	1	0	48					0	93	587	0.71
٦	7:00 AM	3	54	_		58	1	5	5				53	0		60			_		0		700	0.85
Period	7:15 AM 7:30 AM	1 2	74 91	2		77 95	2	4	8 9		12 15	5 4	65 92	0		70 96				0	0	159 206	735 684	0.89
Pe	7:45 AM	6	79	1		86	4	3	6	_		10	96	1		107	0			0	0	206	595	0.72
Peak	8:00 AM	2	66	6		74	5	2	3	_			70	0		80	0			0	0	164	496	0.76
l P	8:15 AM	7	52	1	_	60	3	2	1	0			38	1	-	42			_		0			
A	8:30 AM 8:45 AM	3 2	44 40	2		51 44	4	8	2 6					0		52 50	0				0			
	9:00 AM	0	0			0	0	0	0					0		0			_		0			
	9:15 AM	0	0			0	0	0	0							0					0			
	9:30 AM	0	0			0	0	0	0							0					0	0		
	9:45 AM 10:00 AM	0	0	_		0	0	0	0							0					0		-	
	10:00 AM 10:15 AM	0	0			0	0	0	0	_						0					0	0		
	10:30 AM	0	0			0	0	0		0	0				0	0		0	0		0	0		
٦	10:45 AM	0	0			0	0	0	0	-		0	0	_		0				0	0			
Period	11:00 AM 11:15 AM	0	0			0	0	0	0	_						0			_		0	0		
	11:15 AM	0	0			0	0	0	0	_			0	0		0					0			
Peak	11:45 AM	0	0	_	_	0	0	0	0	_						0			_		0			
	12:00 PM	0	0			0	0	0								0					0			
8	12:15 PM	0	0			0	0	0	0	_				0	-	0				-	0			
Midday	12:30 PM 12:45 PM	0	0			0	0	0	0					0		0					0			
≥	1:00 PM	0	0			0	0	0	0	_			0	0		0					0			
	1:15 PM	0	0			0	0	0		_				_		0	-				0			
	1:30 PM 1:45 PM	0	0				0	0						_		0					0			
Н	2:00 PM	0	0	_			0	0		_								_	_	_	0			
	2:15 PM	0	0			0	0	0	0	_				0		0					0			
	2:30 PM	0	0	_		0	0	0	0	_			0	0		0					0			
	2:45 PM 3:00 PM	0	0			0	0	0	0	_			0	0		0					0		872	0.05
	3:00 PM	7 8	92 83	10 4	_	109 95	5 7	6	12 6	0			84 70	1	0	94 77	0		_		0		872	0.95 0.95
	3:30 PM	7	71	7		85	5	4	8	_		19	108	0		127	0				0		907	0.99
	3:45 PM	13	80			98	8	3	3				97	1	0	114	0			0	0		909	0.98
	4:00 PM	19	72	7		98	6	2	3			12	103	1		116					0		899	0.97
	4:15 PM 4:30 PM	13 9	76 70	11 8		100 87	12 9	2	3	0	17 14	8 12	102 115	3		110 130	0			0	0	227 231	890 878	0.96 0.95
	4:45 PM	10	70			89	10	4	4				100	0		109					0	216	872	0.97
٦	5:00 PM	10	92	11	_	113	5	2	7	_			76	1	_	89					0		824	0.92
Period	5:15 PM	10	90			105	10	4	6			10	79	1	0	90					0			
	5:30 PM 5:45 PM	15 8	85 62	6		106 76	11 8	6	12 7	0		7 12	83 58	0		90 71	0				0			
ak	6:00 PM	0	0			0		0	0					_		0	-				0			
۵		0	0																		0			
M	6:30 PM	0	0	_	_		0	0		_					-				_		0			
	6:45 PM 7:00 PM	0	0				0	0		_						0					0			
	7:15 PM	0	0		_	0	0	0		_				_		0			_		0			
	7:30 PM	0	0			0	0	0		_				_			-				0			
	7:45 PM	0	0	_	_		0	0					_	_		0					0			
	8:00 PM 8:15 PM	0	0	_		0	0	0		_				_		0			_		0		+	
	8:30 PM	0	0				0	0		_											0			
	8:45 PM	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0			
	9:00 PM 9:15 PM	0	0			0	0	0		_						0					0			
	9:15 PM 9:30 PM	0	0		_		0	0	_	_						0			_		0			
	9:45 PM	0	0				0	0		_											0			
To		166		_		_	143	85	_			_		17	_		_	_	_		0			
_																		•						

Peak Hour All Vehicle Volume Summary

Hou	urke		Fre	₩ om No	orth			F	← rom E	ast			Fr	个 om So	uth			Fr	→ om W	lest		Total
	e Period				ccasin					oniere					rairie A			Hourly				
Sta	rt Time Right Thru Left U-Tn To				Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume	
AM	7:15 AM					332	14	10	26	0	50	29	323	1	0	353	0	0	0	0	0	735
MD	12:00 PM				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
РМ	3:45 PM	54 298 31 0 3				383	35	11	10	0	56	48	417	5	0	470	0	0	0	0	0	909

PHF	
0.89	
0.98	

15-Minute Heavy Vehicle Data

Shopiere Rd and Moccasin Trail

15-Minute Heavy Vehicle Data

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Schools in Session
No Special Events Count Basics
Start Date: Tuesday, May 14, 2024
Total Number of Hours Counted: 6



Weekday Non-Holiday

100

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	-ivilliate i								-								_						
1			_	Ψ					←_				_	1					→				
15-	Minute		Fr	om N	orth			F	rom Ea	st			Fr	om So	outh			Fi	rom W	/est		J I	
Tin	e Period		S	hopiere	e Rd			М	occasin 1	rail			Sł	nopier	e Rd			F	rairie /	Ave		15-Min	Hourly
Sta	rt Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals	Sum
	6:00 AM	0	0	0	0	0			0	0	1	1	0	0	0	1	0	0	0	0	0	2	13
	6:15 AM	0	0		_	0				0	0				_	0	0	0	_				15
	6:30 AM	0	3			3	1	1		0		0				1	0	0					21
	6:45 AM	0	2		_	2	0	1		0	1	0			_	2	0	0	_	_		5	24
	7:00 AM	1	1			2	0		-	0	0					2	0	0	_	_		4	23
g	7:15 AM	0	2	_		2	2	0		0	2	1	1			2	0	0	_			6	25
Period	7:30 AM	0	5			5	1	1	-	0	2	0				2	0	0	_			9	21
	7:45 AM	1	0			1	0	1		0	1	1	1			2	0	0				4	19
ğ	8:00 AM	0	2			2	1	0		0	1	0				3	0	0				6	18
Pe	8:15 AM	1	0			1	0	1		0	1	0				0	0	0				2	
Z	8:30 AM	0	3	1	0	4	1	1	0	0	2	0	1	0	0	1	0	0	0	0	0	7	
l ∡	8:45 AM	0	1		0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3	
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	10:00 AM	0	0			0	0	0	0	0	0				0	0	0	0				0	
	10:15 AM	0	0	0	_	0	0	0	0	0	0				0	0	0	0	_		0		
	10:30 AM	0	0	_	_	0		0		0					-	0	0	0	_	_			
	10:45 AM	0	0			0	0	0	-	0	0					0	0	0				0	
Period	11:00 AM	0	0	_	_	0	0	0		0	0			_	-	0	0	0		_			
e	11:15 AM	0	0			0		0		0	0					0	0	0					
	11:30 AM	0	0	_		0	0	0		0	0					0	0	0				0	
eak	11:45 AM	0	0		_	0				0	0	_				0	0	0		_		0	
Pe	12:00 PM	0	0			0				0	0					0		0	_				
Midday	12:15 PM	0	0			0				0	0				_	0	0	0	_			0	
įξ	12:30 PM	0	0			0			-	0	0					0	0	0				0	
2	12:45 PM	0	0			0				0	0					0	_	0	_				
	1:00 PM 1:15 PM	0	0		_	0	0	0	-	0	0				-	0	0	0	_			0	
	1:30 PM	0	0	_	_	0				0					-	0	_	0	_	_			
	1:45 PM	0	0					_	_	0	0					0	0	0					
_	2:00 PM	0	0	_	_		_	_		0	_	_	_	_		0	_	0	_	_		_	-
	2:15 PM	0	0			0			_	0						0	0	0					
	2:30 PM	0	0			0	0	0		0	0					0	0	0				0	<u> </u>
	2:45 PM	0	0	_	_	0	0	0		0	0				0	0	0	0	_			0	
	3:00 PM	0	4			4	0	2		0	2	1	2			3	0	0				9	23
	3:15 PM	0	2	0	0	2	0	0	0	0	0	0			0	2	0	0	0	0	0	4	19
	3:30 PM	0	4	0	0	4	1	1	0	0	2	0	3	0	0	3	0	0	0	0	0	9	17
	3:45 PM	0	1	0	0	1	. 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	12
	4:00 PM	0	2	1	0	3	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	5	12
	4:15 PM	0	2			2	0	0	0	0	0			0	0	0	0	0		0	0	2	10
	4:30 PM	0	2	0	_	2	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	4	8
	4:45 PM	0	0			0	0	0		0	1	0		_		0	0	0		_		1	11
₽	5:00 PM	0	2		_	2	0	0	-	0	0	0		0		1	0	0	_			3	11
Period	5:15 PM	0	0		_	0				0	0			_	-	0	0	0	_	_			
Pe	5:30 PM	0	3			3	2	0		0	3	0				1	0	0				7	
~	5:45 PM	0	0			0	1	0		0	1	0	0			0	0	0				1	l
ea	6:00 PM	0	0		_	0		0		0	0	0				0	0	0	_				
P	6:15 PM	0	0		_	0	0	0		0	0	0		_		0	0	0		_		0	
5	6:30 PM 6:45 PM	0	0			0	0			0		0				0	0	0				0	l
	7:00 PM	0	0							0						0		0					
	7:15 PM	0	0		_					0				_	-	0	_	0	_	_			
	7:30 PM	0	0					_		0						0		_	_	_			
	7:45 PM	0	0							0						0		0	_				
	8:00 PM	0	0		_			_		0						0		0					
	8:15 PM	0	0	_	_					0				_		0		0					
	8:30 PM	0	0							0						0		0					
	8:45 PM	0	0							0						0		0					
	9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	9:15 PM	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0			0	
	9:30 PM	0	0		_			_		0						0			_				
	9:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

41 **Peak Hour Heavy Vehicle Volume Summary**

Totals

				Т					Z					_					$\overline{\Delta}$			I
Hou	ırly		Fr	om No	orth			F	rom E	ast			Fr	T om So	uth			Fr	om W	est (Total
Tim	e Period		Sł	opiere	e Rd			Мс	occasin	Trail			SI	nopiere	Rd			Р	rairie <i>l</i>	Ave		Hourly
Star	rt Time	Right Thru Left U-Tn Tot					Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume
AM	7:15 AM	1	9	0	0	10	4	2	0	0	6	2	7	0	0	9	0	0	0	0	0	25
MD	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	3:45 PM	0	7	1	0	8	1	1	0	0	2	1	1	0	0	2	0	0	0	0	0	12

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11

 Count Basics
 Version 2011.3
 Page 1 of 11

 Start Date:
 Thursday, May 16, 2024
 Weekday
 Schools in Session

 Total Number of Hours Counted: 6
 Non-Holiday
 No Special Events

Base Information, Observed (6) Hour and Estimated (24) Hour Volume Summaries

Intersection of: Shopiere Rd and Cranston Rd

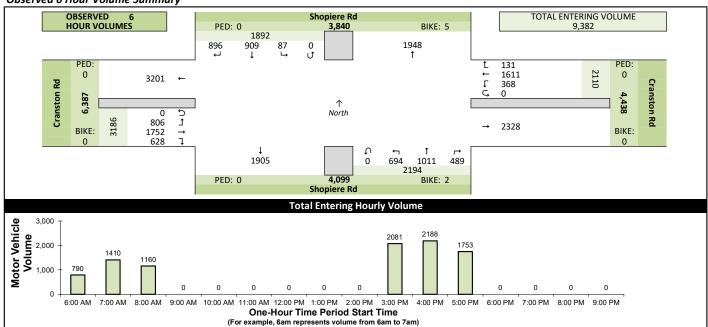
Site Information

Municipality	City of Beloit		
County	Rock	WisDOT	Region SE
Traffic Control	Traffic Signal		
Roadway Names		North Direction	1
North Leg	Shopiere Rd		
	Cranston Rd		
	Shopiere Rd		
	Cranston Rd		
Special Consider			
Schools	In Session		
Holidays			
Special Events			
Special Pedestria	ans Observed		
	Pr	e-school children	None
		nool age children	
,	Visually impaired (white	cane/helper dog)	None
	Elderly/disabled (exc		
	Wheelchairs,	electric scooters	None
Other (de	scribe)	None	None

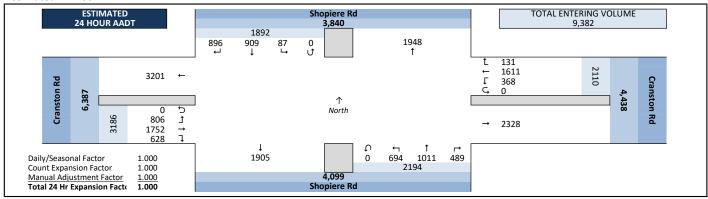
Count Information

Count iiii	n illa tioli						
Hrs Counted:	6:00 AM - 9:00	AM and	d 3:00 P	M to 6:00 PM			
Count Dates						Weath	ier
AM Peal	Reriod Thursda	y, May	16, 202	4		Clear 8	ያ Dry
Midday Peal	k Period Thursda	y, May	16, 202	4		Clear 8	& Dry
PM Peal	Reriod Thursda	y, May	16, 202	4		Clear 8	& Dry
Calculated Pe	eak Hours						
AM	7:15-8:15am	MD				PM	3:45-4:45pm
Peak Hours S	elected for Analy	/sis					
AM	7:15-8:15am	MD				PM	3:45-4:45pm
Daily/Seas	onal Adjustment	Group	(2) Urb	an Arterials & Colle	ectors		•
	Count Expansion	Group	(4) Rur	al Arterials & Collec	ctors		
Daily/Seas	onal Adjustment	Factor	1.000	(Count Exp	ansion	Factor 1.000
Compan	y Name AECOM					Manu	ual Adj. 1.000
Observers	AM Peak	Period	MioVis	ion			•
	Midday Peak						
	PM Peak	Period	MioVis	ion			
Comments	5			•			

Observed 6 Hour Volume Summary



Estimated 24 Hour AADT



Peak Hour Volume Summary

Shopiere Rd and Cranston Rd

 Count Basics
 Page 3 of 11

 Start Date:
 Thursday, May 16, 2024
 Weekday
 Schools in Session

 Total Number of Hours Counted: 6
 Non-Holiday
 No Special Events



																_	-					
Рe	ak Hour Volumes, Truck	Perc	entage	es, an	d PH	Fs					•											
Thu	ırsday, May 16, 2024			$\mathbf{\Psi}$					+					1					→			
			Fro	m No	rth			Fre	om Ea	st			Fro	m Sou	uth			Fro	m We	est		
	AM Peak Hour		Sho	piere	Rd			Cra	nston	Rd			Sho	opiere	Rd			Cra	nston	Rd		
	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
	7:15 AM	24	37	5	0	66	4	56	23	0	83	21	49	21	0	91	28	60	23	0	111	351
ž	7:30 AM	23	49	2	0	74	5	66	11	0	82	20	53	27	0	100	25	56	32	0	113	369
호	7:45 AM	55	42	8	0	105	10	68	14	0	92	21	47	30	0	98	29	52	41	0	122	417
ž	8:00 AM	29	37	3	0	69	3	58	16	0	77	10	36	24	0	70	11	57	28	0	96	312
Pec	Peak Hour Volume	131	165	18	0	314	22	248	64	0	334	72	185	102	0	359	93	225	124	0	442	1449
Š	Rounded Hourly Volume	130	165	20	0	315	20	250	65	0	335	70	185	100	0	355	95	225	125	0	445	1450
₹	% Single Unit Trucks	2.3	3.0	5.6	0.0	2.9	9.1	2.8	3.1	0.0	3.3	2.8	3.2	3.9	0.0	3.3	1.1	3.1	1.6	0.0	2.3	2.9
	% Heavy Trucks	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	0.0
	% Trucks (Total)	2.3	3.0	5.6	0.0	2.9	9.1	2.8	3.1	0.0	3.3	2.8	3.2	3.9	0.0	3.3	1.1	3.1	1.6	0.0	2.3	2.9
	Peak Hour Factor (PHF)	0.60	0.84	0.56	0.00	0.75	0.55	0.91	0.70	0.00	0.91	0.86	0.87	0.85	0.00	0.90	0.80	0.94	0.76	0.00	0.91	0.87

N/	A		Fro	↓ m No	rth			Fre	← om Ea	st			Fro	↑ m Sou	ıth			Fro	→ om We	est		
	MD Peak Hour		Sho	opiere	Rd			Cra	nston	Rd			Sh	opiere	Rd			Cra	nston	Rd		
١,	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
ļ	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
k 1	12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
٦	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	Peak Hour Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Rounded Hourly Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P	% Single Unit Trucks	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	0.0
Jid.	% Heavy Trucks	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	0.0
<	% Trucks (Total)	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	0.0
	Peak Hour Factor (PHF)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Th	ursday, May 16, 2024		.	¥				.	+				.	↑	.1.			.	→			
_				m No				Fre	om Ea	ST				m Sou				Fre	om We	est		
	PM Peak Hour		Sho	piere	Rd			Cra	nston	Rd			Sh	opiere	Rd			Cra	anston	Rd		
	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
	3:45 PM	61	51	4	0	116	5	83	14	0	102	46	89	40	0	175	34	101	39	0	174	567
5	4:00 PM	57	57	4	0	118	10	92	29	0	131	34	58	41	0	133	50	106	61	0	217	599
Ę	4:15 PM	49	41	7	0	97	11	80	29	0	120	35	43	37	0	115	34	128	56	0	218	550
Ιž	4:30 PM	47	48	4	0	99	10	84	25	0	119	29	63	50	0	142	43	109	44	0	196	556
9	Peak Hour Volume	214	197	19	0	430	36	339	97	0	472	144	253	168	0	565	161	444	200	0	805	2272
Iŝ	Rounded Hourly Volume	215	195	20	0	430	35	340	95	0	470	145	255	170	0	570	160	445	200	0	805	2275
٥	% Single Unit Trucks	1.9	0.0	0.0	0.0	0.9	5.6	0.6	1.0	0.0	1.1	0.0	2.4	0.6	0.0	1.2	1.9	1.4	1.0	0.0	1.4	1.2
	% Heavy Trucks	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	0.0
	% Trucks (Total)	1.9	0.0	0.0	0.0	0.9	5.6	0.6	1.0	0.0	1.1	0.0	2.4	0.6	0.0	1.2	1.9	1.4	1.0	0.0	1.4	1.2
	Peak Hour Factor (PHF)	0.88	0.86	0.68	0.00	0.91	0.82	0.92	0.84	0.00	0.90	0.78	0.71	0.84	0.00	0.81	0.80	0.87	0.82	0.00	0.92	0.95

Pe	destrians and Bicyclists	Cr	ossing 🖆	-	Cr	ossing	••	Cr	ossing	2,511	Cr	ossing 🛔	Total Control	Total
	4 4	North App	roach		East App	roach	T.	South App	roach 🕶	-	West App	roach 🔻		Ped &
	N 010	Sh	opiere Rd		Cra	nston Rd		Sh	opiere Rd		Cra	nston Rd		Bike
	15-Minute Start Time	Pedestrian	Bicyclist	Total	Volume									
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
_	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
≩	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
l `	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
٦	12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
§	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Ι ີ	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0
l	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
_	4:00 PM	0	1	1	0	0	0	0	0	0	0	0	0	1
I₹	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Ι ີ	4:30 PM	0	1	1	0	0	0	0	0	0	0	0	0	1
	Total	0	2	2	0	0	0	0	0	0	0	0	0	2

15-Minute Motor Vehicle Data

Shopiere Rd and Cranston Rd

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Count Basics Page 5 of 11 Start Date: Thursday, May 16, 2024 Weekday Schools in Session Total Number of Hours Counted: 6 Non-Holiday No Special Events



				.1										100	-		•	0.0	_	_			***	_
15	Minute N	∕lotor	Vehic	le Da	ita																			
1				Ψ					←					1					→					
15-	Minute		Fr	om N	orth			Fi	rom E	ast			Fr	om So	uth			Fr	rom W	/est				1
Tim	e Period		Sł	nopier	e Rd			Cr	anstor	ı Rd			Sł	nopiere	Rd			C	ranstor	ı Rd		15-Min	Hourly	1
	t Time	Right		Left	U-Tn	Total	Right		Left	U-Tn	Total	Right	Thru		U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals	Sum	PHF
9.00	6:00 AM	18	24			42	2	28	12	0	42	8	15	10	0	33	11	27	10	0			790	
	6:15 AM	13	32	1		46	0	_	5	0	46	9	15	10	0	34	9	27	12	0			898	_
	6:30 AM	24	24	0		48	5	30	9	0	44	8	25	16	0	49	8	34	20	0		203	1075	0.77
	6:45 AM	22	23	1	0	46	4	53	18	0	75	13	23	19	0	55	14	46	12	0	72	248	1241	0.84
-	7:00 AM	19	35	2	0	56	2	36	9	0	47	17	43	23	0	83	18	36	33	0	87	273	1410	0.85
9.	7:15 AM	24	37	5		66	4		23	0	83	21	49	21	0	91	28	60	23	0		351	1449	
Period	7:30 AM	23	49	2		74	5	_	11	0	82	20	53	27	0	100	25	56	32	0		369	1389	
	7:45 AM	55	42	8		105	10		14	0	92	21	47	30	0	98	29	52	41	0		417	1312	
Peak	8:00 AM	29	37	3		69	3		16	0	77	10	36	24	0	70	11	57	28	0			1160	0.93
	8:15 AM	35	20	3		58	2		8	0	70	7	33	23	0	63	14	67	19	0				_
AM	8:30 AM 8:45 AM	29 26	32 24	2		63 52	5 3		12 14	0	71 68	7 17	32 25	24 21	0	63 63	11 18	63 46	21 18	0				
	9:00 AM	0		_		0	0		0	0	00	0	0	0	0	0	0	0						
	9:15 AM	0			_	0	0		0	0	0	0	0	0	0	0	0	0	_	_				
	9:30 AM	0		_		0	0		0	0	0	0	0	0	0	0	0	0		0				
	9:45 AM	0		_	_	0	0		0		0	0	0	0	0	0	0	0		_				
	10:00 AM	0	_	_	_	0	0	_	0		0	0	0	0	0	0	0	0	_	_				
	10:15 AM	0		_		0	0	0	0	0	0	0	0	0	0	0	0	0		0				
	10:30 AM	0		_		0	0		0	-	0	0	0	0	0	0	0	0				_		
-	10:45 AM	0				0	0		0	0	0	0	0	0	0	0	0	0	_					\Box
Period	11:00 AM	0				0	0	_	0	-	0	0	0	0	0	0	0	0		0				igspace
ē	11:15 AM	0		_		0	0		0	0	0	0	0	0	0	0	0	0	_	0				
Ιž	11:30 AM	0				0	0	_	0		0	0	0	0	0	0	0	0						-
Peak	11:45 AM 12:00 PM	0		_	_	0	0	_	0	0	0	0	0	0	0	0	0	0	_	0				
	12:15 PM	0				0	0		0		0	0	0	0	0	0	0	0						
9	12:30 PM	0				0	0		0	0	0	0	0	0	0	0	0	0						
Midday	12:45 PM	0	_	_		0	0		0	0	0	0	0	0	0	0	0	0						
<	1:00 PM	0				0	0		0	0	0	0	0	0	0	0	0	0		0				
	1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1:45 PM	0		_		0	0		0		0	0	0	0	0	0	0	0	0	_				
	2:00 PM	0		_		0	0		0		0	0	0	0	0	0	0	0						
	2:15 PM	0				0	0		0		0	0	0	0	0	0	0	0						
	2:30 PM 2:45 PM	0				0	0		0	0	0	0	0	0	0	0	0	0	_	0				
	3:00 PM	0 43	0 62	6		111	0 8		0 18	0	0 108	0 24	0 40	0 37	0	101	0 37	97	57	0		511	2081	0.92
	3:15 PM	43	42	2		88	6		19	0	112	20	60	37	0	117	36	101	45	0		499	2169	_
	3:30 PM	52	50	8		110	7		14	0	110	27	47	49	0	123	36	100	25	0		504	2220	
	3:45 PM	61	51	4		116	5		14	0	102	46	89	40	0	175	34	101	39	0			2272	
	4:00 PM	57	57	4		118	10		29	0	131	34	58	41	0	133	50	106	61	0		599	2188	
	4:15 PM	49	41	7		97	11	80	29	0	120	35	43	37	0	115	34	128	56	0	218		2057	0.92
	4:30 PM	47	48	4	0	99	10	84	25	0	119	29	63	50	0	142	43	109	44	0	196	556	1950	
	4:45 PM	46	35	4		85	6		14	0	112	23	49	37	0	109	41	96	40	0		483	1839	
9	5:00 PM	45	39	5		89	7		16	0	120	19	42	27	0	88	35	98	38	0		468	1753	0.94
Period	5:15 PM	41	45	1		87	8		10	0	99	30	44	33	0	107	28	87	35	0			-	\vdash
Pe	5:30 PM	58	36	8		102	5		19	0	92	21	33	34	0	88	33	82	48	0		445		
ak	5:45 PM 6:00 PM	36 0	24 0	5		65 0	3 0		10	0	88 0	23 0	47 0	24 0	0	94	25 0	76 0	49	0			-	\vdash
Pec	6:00 PM 6:15 PM	0		_	_	0	0	_	0	_	0	0	0	0	0	0	0	0	_			_		\vdash
PM	6:30 PM	0		_		0	0		0		0	0	0		0	0	0	0						
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	7:00 PM	0				0	0		0		0	0	0	0	0	0	0	0	-	_				
	7:15 PM	0				0	0	_	0	-	0	0	0	0	0	0	0	0		_				
	7:30 PM	0	0	_		0	0	0	0		0	0	0	0	0	0	0	0	_					
	7:45 PM	0		_		0	0		0		0	0	0	0	0	0	0	0						
	8:00 PM	0		_		0	0	_			0	0	0	0	0	0	0	0						$ldsymbol{ldsymbol{ldsymbol{eta}}}$
	8:15 PM	0		_		0	0	_	0	_	0	0	0	0	0	0	0	0						Ь
	8:30 PM	0		_		0	0	_	0		0	0	0		0	0	0	0		_				<u> </u>
	8:45 PM 9:00 PM	0		_		0	0	_		-	0	0	0	-	0	0	0	0	_	_				├
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	9:30 PM 9:45 PM	0				0	0	_			0	0	0	_	0	0	0	0	_	_	_			
Tot		896	_	_	_	1892	131	_		_	2110	_	1011		0		628	1752	_	_		_		
.00	413	090	303	0/	l U	1927	131	1011	308	U	Z110	469	TUTT	094	U	2194	UZŌ	1/52	מטט ן	l U	7190	3382		

Dook Hour	All Vehicle	Volume	Summary
Peak Hour	All Venicle	voiume	Summarv

				$\overline{\Psi}$					+					<u> </u>					→			
Ηοι	ırly		Fre	om No	orth			Fi	rom E	ast			Fr	om So	uth			Fr	om W	est		Total
Tim	e Period							Cr	anston	Rd			Sł	opiere	Rd			Cr	anston	Rd		Hourly
Sta	rt Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume
AM	7:15 AM	131	165	18	0	314	22	248	64	0	334	72	185	102	0	359	93	225	124	0	442	1449
MD	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	3:45 PM	214	197	19	0	430	36	339	97	0	472	144	253	168	0	565	161	444	200	0	805	2272

PHF
0.87
0.95

15-Minute Heavy Vehicle Data

Shopiere Rd and Cranston Rd

Page 9 of 11
Schools in Session
No Special Events Count Basics
Start Date: Thursday, May 16, 2024
Total Number of Hours Counted: 6 Weekday Non-Holiday



	-Minute F	ieavy	venic	не ра	ta																		
			_	¥					+				_	1				_	→	_			
15-1	Minute			om No					rom E					om Sc					rom V				
	ne Period			nopiere					anstor	_				nopiere					ransto			15-Min	Hourly
Star	rt Time			Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right		Left		Total	_	Thru	Left	U-Tn	Total	Totals	Sum
	6:00 AM 6:15 AM	0	<u>1</u>	0		0	0	0	0	_		0 1	0	0		0	0					3	
	6:30 AM	1	0				1	0	0			. 0		0		1	1	2				8	
	6:45 AM	0	1	1	0		0	3	1			0		0		3	0					14	4
~	7:00 AM	3	0	0	0	3	2	1	0	0	3	1	1	0	0	2	2	0	0	0	2	10	3
Period	7:15 AM	1	1	1	0		0	1	0			. 1	0			2	0	4				11	4
Pei	7:30 AM	1	2	0			1	1	1	_		0				0	0					6	4
	7:45 AM 8:00 AM	0	<u>0</u>	0			0 1	1 4	0 1			_	2	2	0	5	0	2				8 17	
Peak	8:15 AM	1	1	0			0	3	0					1		2	0					12	·
AM	8:30 AM	1	1	0	_		1	2	1	_		_	1	_		2	3	2	_			13	
٧	8:45 AM	0	1	1	0	2	0	2	4	0	6	0	1	0		1	2	3			5	14	
	9:00 AM	0	0	_	-	_		0	0	_			_	_	-	0	0	_	_			0	
	9:15 AM	0	0		_			0	0	_						0	0					0	
	9:30 AM 9:45 AM	0	0					0	0							0	0					0	-
	10:00 AM	0	0		_			0	0	_		•	_	_		0	0		_	_	_	0	
	10:00 AM	0	0				_	0	0							0	0					0	
	10:30 AM	0	0					0	0							0	0					0	
	10:45 AM	0	0					0	0							0	0					0	
Period	11:00 AM	0	0		_			0	0	_				_		0	0					0	
er	11:15 AM	0	0		_			0	0					_		0	0		_			0	
ž	11:30 AM 11:45 AM	0	0		_			0	0					_		0	0		_			0	
Peak	12:00 PM	0	0	_	_		_	0	0	_				_		0	0		_			0	
	12:15 PM	0	0					0	0						-	0	0		_			0	
Midday	12:30 PM	0	0					0	0							0	0					0	
Ž	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	1:15 PM	0	0					0	0							0	0			_		0	
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	2:00 PM	0	0		_				0			-	_	_		0	0		_		_	0	
	2:15 PM	0	0		_		_		0							0	0		_			0	
	2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	
	2:45 PM	0	0					0	0				_	_		0	0					0	
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	3:15 PM 3:30 PM	1 2	<u>3</u>		0		1	3	1 0	_			0	_		1	1 2	3				13 12	4
	3:45 PM	1	0	_	_		0		1	_						0	0		_			8	
	4:00 PM	2	0				1	0	0	_		0		1		2	2					8	
	4:15 PM	1	0				0	0	0	_			-			3	1	1				6	
	4:30 PM	0	0					0	0							2	0					5	:
	4:45 PM	1	1	0	_		0	1	0	_		. 0		_		0	1	1				5	
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	5:45 PM	0	0	_				1	0			. 0	_	_		0	1	1	_			3	
eak	6:00 PM	0	0						0					_		0			_				
Φ	6:15 PM	0	0	0	0	0	0	0	0	0	0	0	_	0	0	0	0	0	0	0		0	
M	6:30 PM	0	0						0	_				_		0	0					0	
	6:45 PM	0	0											_		0		_					
	7:00 PM	0	0		_		_	-	0	_				_		0	0		_			0	
	7:15 PM 7:30 PM	0	0		_				0							0		_				0	
	7:45 PM	0	0				_		0	_						0			_	_		0	
	8:00 PM	0	0		_				0							0			_			0	
	8:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	
	8:30 PM	0	0		_				0					_		0						0	
	8:45 PM	0	0		_		_	-	0	_			_	_		0	0	_	_	_		0	
	9:00 PM 9:15 PM	0	0						0				_			0						0	
	9:15 PM 9:30 PM	0	0				_	-	0	_						0	0		_	_		0	
	9:45 PM	0	0		-	_		_	-	_			_	_	-	0		_	_	_		0	
						_		, ,		, ,													

Peak Hour Heavy Vehicle Volume Summary

				4					+					1					→			l 1
Ho	urly		Fr	om No	orth			F	rom E	ast			Fr	om So	uth			Fr	om W	'est		Total
Tim	e Period		Sł	opiere	Rd Rd			Cı	anstor	ı Rd			Sł	nopiere	Rd			Cı	anstor	Rd		Hourly
Sta	rt Time	Time Right Thru Left U-Tn Tot				Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume
AM	7:15 AM	3	5	1	0	9	2	7	2	0	11	2	6	4	0	12	1	7	2	0	10	42
MD	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	3:45 PM	4	0	0	0	4	2	2	1	0	5	0	6	1	0	7	3	6	2	0	11	27

 Count Basics
 Version 2011.J3
 Page 1 of 11

 Start Date:
 Thursday, May 16, 2024
 Weekday
 Schools in Session

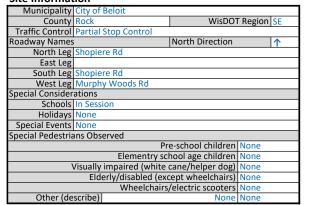
 Total Number of Hours Counted: 6.25
 Non-Holiday
 No Special Events

MISCONSIN

Base Information, Observed (6.25) Hour and Estimated (24) Hour Volume Summaries

Intersection of: Shopiere Rd and Murphy Woods Rd

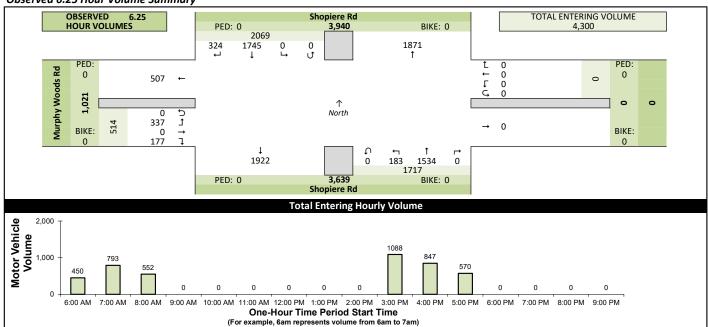
Site Information



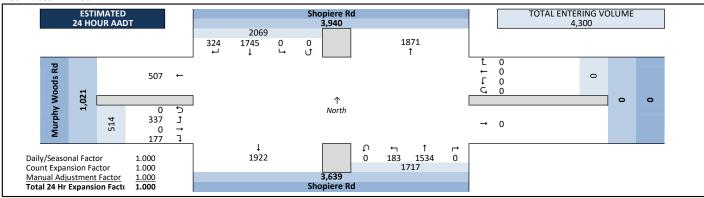
Count Information

Count iiiio	IIIIatioii						-1 (10	
Hrs Counted:	6:00 AM - 9:00	AM and	3:00 P	M to 6:00 PM				
Count Dates						Weath	ier	
AM Peak	Period Thursda	y, May	16, 202	4		Clear 8	ያ Dry	
	Period Thursda					Clear 8	ያ Dry	
PM Peak	Period Thursda	y, May	16, 202	4		Clear 8	& Dry	
Calculated Pe	ak Hours							
AM	7:15-8:15am	MD				PM	2:45-3:45pm	1
Peak Hours S	elected for Analy	rsis						
AM	7:15-8:15am	MD				PM	3:45-4:45pm	1
Daily/Seaso	nal Adjustment	Group	(2) Urb	an Arterials & Co	llectors		,	
(Count Expansion	Group	(4) Rur	al Arterials & Coll	ectors			
Daily/Seaso	onal Adjustment	Factor	1.000		Count Exp	ansion	Factor 1.000)
Compan	Name AECOM					Manı	ual Adj. 1.000)
Observers							•	
	Midday Peak	Period	MioVis	ion				
	PM Peak	Period	MioVis	ion				
Comments							•	

Observed 6.25 Hour Volume Summary



Estimated 24 Hour AADT



Peak Hour Volume Summary

Shopiere Rd and Murphy Woods Rd

 Count Basics
 Page 3 of 11

 Start Date:
 Thursday, May 16, 2024
 Weekday
 Schools in Session

 Total Number of Hours Counted: 6.25
 Non-Holiday
 No Special Events



Thu	ursday, May 16, 2024		Fro	₩ m No	rth			Fre	← om Ea	st			Fro	∱ m Տօւ	ıth			Fro	→ om We	est		
	AM Peak Hour		Sh	opiere	Rd				0				Sho	piere	Rd			Murph	ıy Woc	ds Rd		
	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Total
	7:15 AM	5	76	0	0	81	0	0	0	0	0	0	88	4	0	92	9	0	20	0	29	20
'n	7:30 AM	14	80	0	0	94	0	0	0	0	0	0	93	5	0	98	10	0	26	0	36	22
身	7:45 AM	9	81	0	0	90	0	0	0	0	0	0	82	8	0	90	8	0	17	0	25	20
×	8:00 AM	12	59	0	0	71	0	0	0	0	0	0	62	8	0	70	7	0	14	0	21	163
Pec	Peak Hour Volume	40	296	0	0	336	0	0	0	0	0	0	325	25	0	350	34	0	77	0	111	79
Z	Rounded Hourly Volume	40	295	0	0	335	0	0	0	0	0	0	325	25	0	350	35	0	75	0	110	79
¥	% Single Unit Trucks	2.5	3.7	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	2.8	4.0	0.0	2.9	2.9	0.0	1.3	0.0	1.8	3.0
	% Heavy Trucks	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	0.
	% Trucks (Total)	2.5	3.7	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	2.8	4.0	0.0	2.9	2.9	0.0	1.3	0.0	1.8	3.
	Peak Hour Factor (PHF)	0.71	0.91	0.00	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.78	0.00	0.89	0.85	0.00	0.74	0.00	0.77	0.8

N/	Δ.		Fro	↓ m No	rth			Fre	← om Ea	st			Fro	↑ om Sou	ıth			Fro	→ om We	est		
	MD Peak Hour		Sho	piere	Rd				0				Sh	opiere l	Rd			Murpl	ny Woo	ds Rd		
۱,	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
100	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 7	12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ea	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
٦	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	Peak Hour Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Rounded Hourly Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ga	% Single Unit Trucks	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	0.0
βį	% Heavy Trucks	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	0.0
<	% Trucks (Total)	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	0.0
	Peak Hour Factor (PHF)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Thu	ırsday, May 16, 2024		Fro	₩ m No	rth			Fre	← om Ea	st			Fro	↑ m Sou	ıth			Fro	→ om We	est		
	PM Peak Hour		Sho	piere	Rd				0				Sho	opiere	Rd			Murpl	ıy Woo	ds Rd		
	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
	3:45 PM	23	104	0	0	127	0	0	0	0	0	0	73	11	0	84	10	0	19	0	29	240
I≒	4:00 PM	24	90	0	0	114	0	0	0	0	0	0	81	9	0	90	9	0	12	0	21	225
١ş	4:15 PM	24	87	0	0	111	0	0	0	0	0	0	69	11	0	80	10	0	21	0	31	222
Ιž	4:30 PM	21	91	0	0	112	0	0	0	0	0	0	73	14	0	87	6	0	10	0	16	215
اة ا	Peak Hour Volume	92	372	0	0	464	0	0	0	0	0	0	296	45	0	341	35	0	62	0	97	902
Ιŝ	Rounded Hourly Volume	90	370	0	0	460	0	0	0	0	0	0	295	45	0	340	35	0	60	0	95	895
٦	% Single Unit Trucks	0.0	0.8	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.9	2.9	0.0	0.0	0.0	1.0	0.8
	% Heavy Trucks	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	0.0
	% Trucks (Total)	0.0	0.8	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.9	2.9	0.0	0.0	0.0	1.0	0.8
	Peak Hour Factor (PHF)	0.96	0.89	0.00	0.00	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.91	0.80	0.00	0.95	0.87	0.00	0.74	0.00	0.78	0.94

	destrians and Bicyclists			•	Cr	ossing	1	Cr	ossing	2,000	Cr	ossing 🚹	See .	Total
Г	7	North App	roach		East App	roach	1	South App	roach 🕶	-	West App	roach 🗼		Ped &
L	7 010	Sh	opiere Rd			0		Sh	opiere Rd		Murpl	ny Woods Rd		Bike
	15-Minute Start Time	Pedestrian	Bicyclist	Total	Pedestrian	Bicyclist	Total	Pedestrian	Bicyclist	Total	Pedestrian	Bicyclist	Total	Volume
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
_	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
١Ş	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
`	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
٦	12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
١ş	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
ΙŞ	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0

15-Minute Motor Vehicle Data

Shopiere Rd and Murphy Woods Rd

 Count Basics
 Page 5 of 11

 Start Date:
 Thursday, May 16, 2024
 Weekday
 Schools in Session

 Total Number of Hours Counted: 6.25
 Non-Holiday
 No Special Events



15-Minute Motor Vehicle Data

15-l	Minute		Fr	om N	orth			F	rom E	ast			Fre	↑ om Sc	uth				→ om W					
	e Period			hopier					0					opiere					hy Wo			15-Min	Hourly	
Star	t Time 6:00 AM	Right 6	Thru 26	Left 0	U-Tn	Total 32	Right 0	Thru 0	Left 0	U-Tn	Total 0	Right 0		Left 4	U-Tn 0	Total 55	Right 8	Thru 0	Left 11	U-Tn	Total 19	Totals 106	Sum 450	PHF
	6:15 AM	6	27	0	-	33	0	0	_		0			1	0		8			0	16	101	502	_
	6:30 AM	8	40	0		48	0	0			0	0		3	0		4		15	0	19		603	
	6:45 AM	7	45	0		52	0	0		0	0	0		3	0		9		13	0	22	129	717	_
ø	7:00 AM	8	62	0		70	0	0	_		0	0		6	0		6		24	0	30		793	_
Period	7:15 AM 7:30 AM	5 14	76 80	0		81 94	0	0		0	0	0		<u>4</u> 5	0		9 10	0	20 26	0	29 36		797 717	
Pe	7:45 AM	9	81	0		90	0	0		0	0	0		8	0		8		17	0	25	205	622	
Peak	8:00 AM	12	59	0		71	0	0		_	0	0		8	0		7	0	14	0	21	162	552	
	8:15 AM	10	57	0		67	0	0			0	_		3	0		4		10	0	14			
AM	8:30 AM	5	53	0		58	0	0	_		0	0		5	0		4		10	0	14			+
	8:45 AM 9:00 AM	15 0	56 0			7 <u>1</u>	0	0	_	_	0	0		4 0	0		5 0	0	9	0	14			+
	9:15 AM	0	0			0		0			0	0		0	0		0			0	0			+
	9:30 AM	0	0	_		0		0			0			0	0	-	_			0	0			1
_	9:45 AM	0	0			0		0			0			0	0		_			0	0			
	10:00 AM	0	0		-	0		0	_		0			0			_		-	0	0			₩
	10:15 AM 10:30 AM	0	0			0	0	0		0	0	0		0	0		0		0	0	0			+
	10:45 AM	0	0	_	-	0	_	0		_	0	0		0	0		0		0	0	0			+
po	11:00 AM	0	0	_		0		0			0	0		0	0					0	0			+
Period	11:15 AM	0	0		_	0	0	0		0	0	0		0	0		0		0	0	0			
	11:30 AM	0	0	_		0		0		_	0	0		0	0		0		-	0	0			₩
Peak	11:45 AM 12:00 PM	0	0			0	0	0		0	0	0		0	0		0		0	0	0			-
	12:15 PM	0	0			0		0			0	0		0	0		0			0	0			_
Vidday	12:30 PM	0	0			0	_	0			0	0		0	0				_	0	0			+
Ž	12:45 PM	0	0			0	0	0		0	0	0		0	0		0		0	0	0			
	1:00 PM	0	0			0		0			0	0		0	0				0	0	0			₩
	1:15 PM 1:30 PM	0	0	_	_	0	0	0		_	0	0		0	0	-	0		0	0	0		-	+
	1:45 PM	0	0			0		0		_	0			0						0	0			+
	2:00 PM	0	0	_		0	_	0			0			0			_		_	0	0			T
	2:15 PM	0	0			0		0			0	0		0	0		0		0	0	0			
	2:30 PM	0	0		-	0	_	0		_	0	0		0	0		0		-	0	0		4450	1
	2:45 PM 3:00 PM	22 20	165 120	0		187 140	0	0			0	0		10 15	0		14 14	0	4 20	0	18 34		1150 1088	
	3:15 PM	20	113	0	_	133	0	0		_	0	0		9	0		9		20	0	29		1018	_
	3:30 PM	15	134	0		149	0	0		_	0			21	0		4		17	0	21		972	
	3:45 PM	23	104	0		127	0	0			0	0		11	0		10		19	0	29		902	
	4:00 PM	24	90	0		114	0	0		0	0	0		9	0		9		12	0	21		847	
	4:15 PM 4:30 PM	24 21	87	0		111	0	0			0	0		11	0		10		21	0	31 16		760 694	_
	4:30 PM	16	91 86	0		112 102	0	0			0	0		14 8	0		6 8		10 18	0	26		618	
	5:00 PM	10	58	0	-	68	0	0		_	0	0		9	0		7		3	0	10		570	
iod	5:15 PM	16	77	0		93	0	0			0	0		7	0		7	0	4	0	11	156		
Period	5:30 PM	16	54	0	_	70	0	0		0	0	0		8	0		6		7	0	13			\perp
eak F	5:45 PM	14	69	0	_	83	0	0		_	0	0		7	0	-	5	0	9	0	14			+
Pea	6:00 PM 6:15 PM	0	0			0	_	0		0	0	0		0	0				0	0	0			+
-	6:30 PM	0		_		0		0	_	_	0			0	_				-	0	0			+
٩	6:45 PM	0	0			0	-	0		_	0			0					-	0	0			\top
	7:00 PM	0	0		_	0		0	_	_	0			0	_		_			0	0	_		
	7:15 PM	0	0			0		0			0			0						0	0			
	7:30 PM 7:45 PM	0	0			0		0		_	0			0						0	0	_		+
	8:00 PM	0	0			0		0			0		_	0					_	0	0			+
	8:15 PM	0	0	_		0		0		_	0			0	_	-				0	0			T
	8:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	8:45 PM	0	0	_		0		0		_	0	_		0			_			0	0			\perp
	9:00 PM	0	0		_	0		0	_	_	0			0					-	0	0			<u> </u>
	9:15 PM 9:30 PM	0	0		_	0		0	_	_	0			0	0					0	0			
		0	0			0		0		_	0			0			_			0	0			
	9:45 PM	()	1.1						17	[]]	U	()	[]]	U			U					U		

Peak Hour All Vehicle Volume Summary

				$\overline{\mathbf{V}}$					+					<u> </u>					→			
Ηοι	ırly		Fre	om No	orth			F	rom E	ast			Fr	om So	uth			Fr	om W	est		Total
Tim	e Period		Sh	opiere	Rd				0				Sł	opiere	Rd			Murp	hy Wo	ods Rd		Hourly
Star	rt Time	Time Right Thru Left U-Tn To				Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume
AM	7:15 AM	40	296	0	0	336	0	0	0	0	0	0	325	25	0	350	34	0	77	0	111	797
MD	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	3:45 PM	92	372	0	0	464	0	0	0	0	0	0	296	45	0	341	35	0	62	0	97	902

PHF
0.87
0.94

15-Minute Heavy Vehicle Data

Shopiere Rd and Murphy Woods Rd

Page 9 of 11
Schools in Session
No Special Events Count Basics
Start Date: Thursday, May 16, 2024
Total Number of Hours Counted: 6.25 Weekday Non-Holiday



0

15-Minute Heavy Vehicle Data

	Minute F		Fı	om N	orth			F	rom E	ast				↑ om So					→ rom W				
	e Period			hopier	_				0					opier						ods Rd		15-Min	Hourly
Star	rt Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	_	Left	U-Tn	Total	Right	Thru	Left			Totals	Sum
	6:00 AM 6:15 AM	0	1	_	_	1	0	0	_	0		_		0	_	1	0	0	_			2	1
	6:30 AM	0	1			1	0			0	0	_				0		0	_			1	1
	6:45 AM	0	2			2	0			0					-	3	_		_			. 6	2
_	7:00 AM	1	3		_	4	0	0	_	0						2	1	0	_			7	2
Period	7:15 AM	0	1			1	0	0	0	0	0	0	2	0	0	2	1	0	0			. 4	2-
Je.	7:30 AM	1	0		_	1	0				0			1		3	0	0				. 5	2
	7:45 AM	0	5			5	0	0			0			0		1	0	0					2
eak	8:00 AM	0	5			5	0	0		0	0			0		4	0	0				9	2
ИР	8:15 AM 8:30 AM	0	2		_	3	0	_		0		_		0	-	1 5	0		_				
AM	8:45 AM	0	3 1			1	0	0		0	0			0	0	5	0	0				8	
	9:00 AM	0	0			0				0	0			0	-	0	_	0	_			0	
	9:15 AM	0	0								0				_	0		0					
	9:30 AM	0	0	+		0	_	0		0	0			0	_	0	0	0	_				
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	10:00 AM	0	0													0							
	10:15 AM	0	0		_	0					0					0		0	_			0	
	10:30 AM	0	0			0				0	0			0	-	0	_		_				l I
P	10:45 AM 11:00 AM	0	0			0	0	0		0	0			0		0		0				0	
Period	11:15 AM	0	0	_		0	_			0	0			0	-	0		0		_			
	11:30 AM	0	0			0				0	0			0		0		0					
ak	11:45 AM	0	0	_		0	_	0		0				0	_	0			_			0	
Pe	12:00 PM	0	0		_	0	_		_	0	0	_			_	0		0	_			0	
۵	12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Midday	12:30 PM	0	0		_			_		0	0					0	_						
Ž	12:45 PM	0	0				_			0	0					0	_	0					
	1:00 PM	0	0	_	_	0	-	_	_	0	0			0		0	_	0					
	1:15 PM 1:30 PM	0	0	+		0	0	0		0	0			0	-	0		0	_			0	
	1:45 PM	0	0			-			_							0							
	2:00 PM	0	0	_	_		_	_	_		_	_	_	_		0	_		_	_		_	
	2:15 PM	0	0			0	0	0		0	0			0	_	0		0				0	
	2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2:45 PM	0	0			0	0	0		0	0			0		0		0				0	1
	3:00 PM	0	2			2	0	0		0	0			0	-	2	0	0				4	15
	3:15 PM	0	4			4	0	0		0	0			0		1	0	0					1
	3:30 PM 3:45 PM	0	0	_		0	0			_	0			0		3	0	0	_			4	1
	4:00 PM	0	3			3	0			0	0			0	-		0	0	_			4	
	4:15 PM	0	0			•	_		_		0					0		0				1	
	4:30 PM	0	0				0	0			0			0	-	0	0	0				0	
	4:45 PM	1	1			2	0			0	0	_		0		1	0	0	_			. 4	
~	5:00 PM	0	0			0	0			0	0			0		1	0					1	
Period	5:15 PM	0	1	_	_	1	0	0		0	0			0	_	0		0				1	l
Per	5:30 PM	0	0			0	0			0	0			0		1	0	0					
×	5:45 PM	0	0	_		0	0	0		0	0			0	_	0			_				l
Pea	6:00 PM 6:15 PM	0	0	_	_	0	_	0	_	0	0	0		0	_	0		0	_				l
~	6:30 PM	0	0	1	_			_						_		0	ı -			1			
Ы	6:45 PM	0	0		_			_		0		_				0							
	7:00 PM	0	0							_						0	_		_				
	7:15 PM	0	0					0		_					-	0			_				
	7:30 PM	0	0									_		_	-	0	_		_				
	7:45 PM	0	0						_			_				0							
	8:00 PM	0	0											_	_	0			_				
	8:15 PM	0	0									_				0							l ——
	8:30 PM 8:45 PM	0	0		_			_								0							
	9:00 PM	0	0					_				_			-	0	_		_				
	9:15 PM	0	0					_								0		_	_				<u> </u>
	9:30 PM	0	0	_	_					_		_			-	0	_	_					
	9:45 PM	0	0												_	0							
Tot		2	26	0	0	20	0	0	0	0	0	0	27	2	0	20	2	0	1	0	7	OE.	

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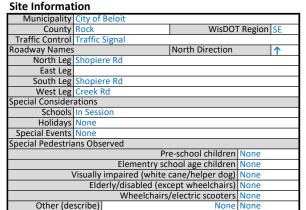
Totals

Реак нош	Heavy	/ venic	ie vo	iume	Summ	ary															
			$\overline{\mathbf{V}}$					+					1					→			
Hourly		Fr	om No	orth			F	rom E	ast			Fr	om So	uth			Fr	om W	'est		Total
Time Period		Shopiere Rd					0				SI	nopiere	Rd			Murp	hy Wo	ods Rd		Hourly	
Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume
AM 7:15 AM	1	. 11	0	0	12	0	0	0	0	0	0	9	1	0	10	1	0	1	0	2	24
MD 12:00 PN	1 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM 3:45 PM	C) 3	0	0	3	0	0	0	0	0	0	3	0	0	3	1	0	0	0	1	7

Version 2011.J3 Page 1 of 11 Thursday, May 16, 2024 Weekday No Special Events

Base Information, Observed (6) Hour and Estimated (24) Hour Volume Summaries

Intersection of: Shopiere Rd and Creek Rd



0

0

7:00 AM 8:00 AM 9:00 AM 10:00 AM 11:00 AM 12:00 PM 1:00 PM 2:00 PM

Count Information

Count iiiio	mation						or 110	
Hrs Counted:	6:00 AM - 9:00	AM and	3:00 P	M to 6:00 PM				
Count Dates						Weath	ner	
AM Peak	Period Thursda	y, May	16, 202	.4		Clear 8	& Dry	
Midday Peak	Period Thursda	y, May	16, 202	!4		Clear 8	& Dry	
PM Peak	Period Thursda	y, May	16, 202	!4		Clear 8	& Dry	
Calculated Pe	ak Hours							
AM	7:15-8:15am	MD				PM	3:45-4:	.45pm
Peak Hours Se	elected for Analy	rsis						
AM	7:15-8:15am	MD				PM	3:45-4:	45pm
				oan Arterials & Co				
(Count Expansion	Group	(4) Rur	al Arterials & Col	lectors			
Daily/Seaso	onal Adjustment	Factor	1.000		Count Exp	ansion	Factor	1.000
Company	y Name AECOM					Manı	ual Adj.	1.000
Observers								
	Midday Peak							
	PM Peak	Period	MioVis	ion				
Comments								

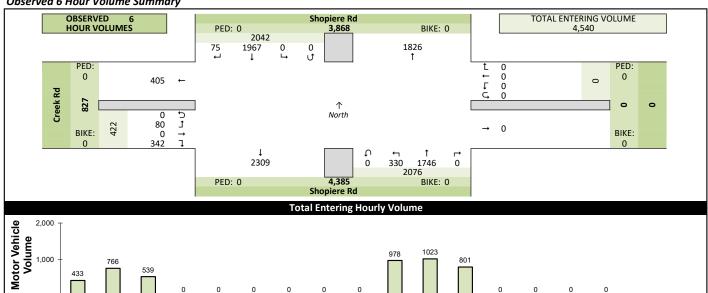
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3:00 PM 4:00 PM 5:00 PM 6:00 PM 7:00 PM 8:00 PM 9:00 PM

0

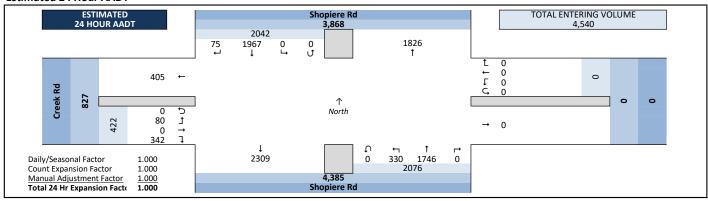
0

Observed 6 Hour Volume Summary



Estimated 24 Hour AADT

6:00 AM



One-Hour Time Period Start Time (For example, 6am represents volume from 6am to 7am)

Peak Hour Volume Summary

Shopiere Rd and Creek Rd

 Count Basics
 Page 3 of 11

 Start Date:
 Thursday, May 16, 2024
 Weekday
 Schools in Session

 Total Number of Hours Counted: 6
 Non-Holiday
 No Special Events



Peak Hour Volumes, Truck Percentages, and PHFs

Thu	ırsday, May 16, 2024			4					+					1					→			
			Fro	m No	rth			Fre	om Ea	st			Fro	m Sou	ıth			Fro	m We	est		
	AM Peak Hour		Sho	piere	Rd				0				Sh	opiere	Rd			С	reek Ro	d		
	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
	7:15 AM	4	65	0	0	69	0	0	0	0	0	0	102	10	0	112	15	0	7	0	22	203
E	7:30 AM	1	84	0	0	85	0	0	0	0	0	0	104	17	0	121	10	0	3	0	13	219
후	7:45 AM	7	76	0	0	83	0	0	0	0	0	0	83	17	0	100	14	0	4	0	18	201
ž	8:00 AM	6	58	0	0	64	0	0	0	0	0	0	66	9	0	75	13	0	0	0	13	152
Bec	Peak Hour Volume	18	283	0	0	301	0	0	0	0	0	0	355	53	0	408	52	0	14	0	66	775
ΙĒ	Rounded Hourly Volume	20	285	0	0	305	0	0	0	0	0	0	355	55	0	410	50	0	15	0	65	780
₹	% Single Unit Trucks	0.0	4.2	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	3.0
	% Heavy Trucks	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	0.0
	% Trucks (Total)	0.0	4.2	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	3.0
	Peak Hour Factor (PHF)	0.64	0.84	0.00	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.78	0.00	0.84	0.87	0.00	0.50	0.00	0.75	0.88

N/	A		Fro	↓ m No	rth			Fre	← om Ea	st			Fro	↑ m Sou	ıth			Fro	→ om We	est		
	MD Peak Hour		Sho	piere	Rd				0				Sho	opiere	Rd			С	reek Ro	d		
Ļ	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
Ì	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
٦	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IS	Peak Hour Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Rounded Hourly Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P	% Single Unit Trucks	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	0.0
Jil.	% Heavy Trucks	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	0.0
۱ ۹	% Trucks (Total)	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	0.0
	Peak Hour Factor (PHF)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Thu	ırsday, May 16, 2024		Fro	₩ m No	rth			Fre	← om Ea	st			Fro	↑ m Sou	ıth			Fro	→ om We	est		
	PM Peak Hour		Sho	piere	Rd				0				Sh	opiere	Rd			С	reek R	d		
	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
	3:45 PM	2	169	0	0	171	0	0	0	0	0	0	72	18	0	90	20	0	5	0	25	286
I≒	4:00 PM	4	128	0	0	132	0	0	0	0	0	0	102	22	0	124	10	0	6	0	16	272
١ş	4:15 PM	2	115	0	0	117	0	0	0	0	0	0	96	22	0	118	17	0	5	0	22	257
Ιž	4:30 PM	3	125	0	0	128	0	0	0	0	0	0	95	19	0	114	25	0	5	0	30	272
۶ ا	Peak Hour Volume	11	537	0	0	548	0	0	0	0	0	0	365	81	0	446	72	0	21	0	93	1087
Ιŝ	Rounded Hourly Volume	10	535	0	0	545	0	0	0	0	0	0	365	80	0	445	70	0	20	0	90	1080
٦	% Single Unit Trucks	0.0	1.3	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.9	1.4	0.0	0.0	0.0	1.1	1.1
	% Heavy Trucks	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	0.0
	% Trucks (Total)	0.0	1.3	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.9	1.4	0.0	0.0	0.0	1.1	1.1
	Peak Hour Factor (PHF)	0.69	0.79	0.00	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.92	0.00	0.90	0.72	0.00	0.87	0.00	0.77	0.95

Pe	destrians and Bicyclists	Cr	ossing 🖆	-	Cr	ossing	•	Cr	ossing	200	Cr	ossing 🛔	No.	Total
Г	4 6	North App	roach		East App	roach	T.	South App	roach 🕶	-	West App	oroach 🕡		Ped &
	N 010	Sh	opiere Rd			0		Sho	opiere Rd		C	reek Rd		Bike
	15-Minute Start Time	Pedestrian	Bicyclist	Total	Volume									
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
_	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
}	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
`	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
١.	12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
l	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0
ᆮ														
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
١Ş	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
`	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0

15-Minute Motor Vehicle Data

Shopiere Rd and Creek Rd

Page 5 of 11
| Schools in Session |
| No Special Events | Count Basics
Start Date: Thursday, May 16, 2024
Total Number of Hours Counted: 6 Weekday Non-Holiday



		_												100		99-	-0	••	•	_		6, 40	***	-
15	-Minute N	∕lotor	Vehic	cle Da	ta																			
1				Ψ					←					1					→					
15-	Minute		Fr	om No	orth			F	rom E	ast			Fr	om So	uth			Fi	rom W	/est				1
Tim	e Period		S	hopiere	e Rd				0			ì	Sł	opiere	e Rd		i i		Creek I	Rd		15-Min	Hourly	1
	rt Time	Right		Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right		Left		Total	Totals	Sum	PHF
-	6:00 AM	2	27	0		29	0	_			0	0	57	5	0	62	4		_		5	96	433	
	6:15 AM	2	32	0	_	34	0				0	0	53	6	0	59	2	0			2	95	480	_
	6:30 AM	2	38	0		40	0				0	0	56	5	0	61	10	0			15		588	0.72
	6:45 AM	6	46	0	0	52	0	0	0	0	0	0	59	7	0	66	7	0	1	0	8	126	691	0.79
۱,	7:00 AM	2	58	0	0	60	0	0	0	0	0	0	62	11	0	73	9	0	1	0	10	143	766	0.87
Period	7:15 AM	4	65	0		69	0				0	0	102	10	0		15	0			22	203	775	0.88
<u>5</u>	7:30 AM	1	84	0		85	0				0	0	104	17	0		10	0	-		13	219	701	
	7:45 AM	7	76	0	_	83	0				0	0	83	17	0		14	0			18		606	
Peak	8:00 AM	6	58	0		64	0				0	0	66	9	0		13	0			13	152	539	0.89
	8:15 AM	9	55	0	_	64	0		_		0		38	12	0		12	0			15			
ΑŽ	8:30 AM	1	44	0		45	0				0	0	55	10	0	65	13	0			14			ļ
`	8:45 AM	2 0	61	0	_	63	0		_		0	0	46	11	0		11	0			14	134		<u> </u>
	9:00 AM 9:15 AM	0		_		0	_		_		0	0	0	0	0	0	0		_		0			-
	9:30 AM	0	0	_	_	0					0	0	0	0	0	0	0				0	0		-
	9:45 AM	0				0	_				0			0	_		_				0			\vdash
	10:00 AM	0	_	_	_	0	_	_		_	0	0	0	0			_	_	_	_	0			t
	10:15 AM	0	0		_	0	Ö			-	0	0	0	0	0	0	0				0	0		
	10:30 AM	0				0			-		0		0	0	_	0	_				0			
	10:45 AM	0	0	_	_	0			_		0	0	0	0	0	0	0		_		0	0		
9	11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Period	11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Peak	11:45 AM	0	0	_		0	_	_	_		0	0	0	0	0	0	0				0			
	12:00 PM	0				0					0	0	0	0	0	0	0				0	0		
ſĝ	12:15 PM	0				0	_				0		0	0	0	0	0				0			
Midday	12:30 PM	0			-	0					0		0	0	0	0	0	_			0	0		
Z	12:45 PM	0				0					0		0	0	0	0	0				0	0		
	1:00 PM 1:15 PM	0	0	_		0					0	0	0	0	0	0	0				0			
	1:30 PM	0	0		_	0					0	0	0	0	0	0					0			-
	1:45 PM	0				0	_				0		0	0							0			
	2:00 PM	0		_		0	_		_	_	0	•	0	0			_		_	_	0			i
	2:15 PM	0				0	_				0		0	0	0		_				0			
	2:30 PM	0	0			0					0		0	0	0	0	0				0			
	2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	3:00 PM	5	94	0	0	99	0	0	0	0	0	0	87	24	0	111	24	0	3	0	27	237	978	0.85
	3:15 PM	0	102	0	0	102	0	0	0	0	0	0	80	14	0		22	0	5	0	27	223	1013	
	3:30 PM	1	105	0	0	106	0	0		_	0	0	81	14	0		25	0			31	232	1047	
	3:45 PM	2	169	0		171	0				0	0	72	18	0		20	0			25	286	1087	0.95
	4:00 PM	4	128	0		132	0				0		102	22	0		10	0			16		1023	
	4:15 PM	2	115	0	_	117	0			-	0		96	22	0		17	0			22	257	968	_
	4:30 PM	3	125	0	-	128	0				0	0	95	19	0		25	0			30	272	922	0.85
	4:45 PM	0	106	0	_	106	0		_		0		79	16	0		18	0	_		21	222	848	_
وا	5:00 PM 5:15 PM	3 4	99 99	0		102 103	0				0	0	76 80	17 12	0	93 92	16 13	0			22 16	217 211	801	0.92
Period	5:30 PM	3	99	0		100	0		_		0	0	68	14	0	82	13	0			16			-
	5:45 PM	4	84	0		88	0				0		49	18	0		19	0			20			
ak	6:00 PM	0				0	_	+			0		0	0	0		_		-		0			1
Pe	6:15 PM	0		_	_	0	_	_	_	_	0		0	0	-		_		_	_	0	_		
M	6:30 PM	0				0					0			0							0			
۵	6:45 PM	0			_	0	_				0		0	0		0	_				0			
	7:00 PM	0	-	_	-	0			-		0		0	0				-		-	0			
	7:15 PM	0		_		0	_				0			0	_		_		_		0			
	7:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	7:45 PM	0	0	0	0	0					0	0	0	0	0	0	0	0	0		0	0		
	8:00 PM	0				0					0			0	_	0				_	0			
	8:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	8:30 PM	0				0					0		0	0							0			
	8:45 PM	0			_	0			_		0			0			_		_		0			
	9:00 PM	0	_	_		0				-	0		0	0	-	0					0			
	9:15 PM	0			_	0	_				0		0	0	0		_		_		0			
	9:30 PM	0		_		0	_		_		0			0	_		_		_		0			
	9:45 PM	0	_	_	_	0	_	_	_		0	_	0	0	_		_	_	_	_	0	_		
Tot	als	75	1967	0	0	2042	0	0	0	0	0	0	1746	330	0	2076	342	0	80	0	422	4540		

		_
Peak Hour	All Vehicle Volume	Summarv

Г				$\overline{\mathbf{V}}$					+					<u> </u>					→			
Hou	ırly		Fre	om No	orth			F	rom E	ast			Fr	om So	uth			Fr	om W	est		Total
Tim	e Period		Sh	opiere	Rd			rht Thru Lof					Sł	nopiere	Rd			(Creek F	Rd		Hourly
Star	rt Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume
AM	7:15 AM	18	283	0	0	301	0	0	0	0	0	0	355	53	0	408	52	0	14	0	66	775
MD	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	3:45 PM	11	537	0	0	548	0	0	0	0	0	0	365	81	0	446	72	0	21	0	93	1087

PHF
0.88
0.95

15-Minute Heavy Vehicle Data

Shopiere Rd and Creek Rd

15-Minute Heavy Vehicle Data

 Count Basics
 Page 9 of 11

 Start Date:
 Thursday, May 16, 2024
 Weekday
 Schools in Session

 Total Number of Hours Counted: 6
 Non-Holiday
 No Special Events



	Minute			rom N				F	rom E	ast				↑ om Sc					om W				
	e Period			hopie					0					nopiere					Creek I			15-Min	Н
ita	ft Time 6:00 AM	Right	Thru 1	Left			Right	Thru 0	_	U-Tn	Total	Right		Left	U-Tn		Right	Thru	Left 0	U-Tn	Total	Totals	S
	6:00 AM	0	0	_	0 0		0	0		0	0	0 0		0	_		0	0	0		0	1	H
	6:30 AM	0	1				0	0		0		0						0				1	H
	6:45 AM	0	2	_	0 0		0	0		0	0	0			0		0	0	0			5	
_	7:00 AM	0	4	. (0 0) 4	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	6	
Period	7:15 AM	0	1		0 0		0	0		0		0					0	0		0	0	3	
Pe,	7:30 AM	0	1		0 0		0	0		0	0	0			0		0	0	0	0		5	L
ž	7:45 AM	0	5		0 0		0	0		0	0	0		0	0		0	0	0	0	0	6	L
Peak	8:00 AM 8:15 AM	0	2		0 0		0	0		0	0	0			0		0	0	0	0	0	9	H
<u>A</u>	8:30 AM	0	3				0	0	_	0	0	0			_		0	0	0	_		6	H
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	9:00 AM	0	0	_	0 0		0	0		0		0			0			0	0			0	H
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	9:30 AM	0	С) (o c	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	
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	10:00 AM	0	0		0 0		0	0		0		0						0	0			0	-
	10:15 AM 10:30 AM	0	0		0 0		0	0		0							_	0		_		0	\vdash
	10:30 AM 10:45 AM	0	0		0 0		0	0		0	0	0					_	0	0		0	0	H
ō	11:00 AM	0	0				0	0	_	0						_		0	_			0	-
Period	11:15 AM	0		_			0	0		0	0	0		_	0			0	0			0	H
	11:30 AM	0					0	0		0	0	0						0	0		0	0	
Peak	11:45 AM	0	0	_	0 0		0	0		0	0	0		_		0		0	0		0	0	r
Pe	12:00 PM	0	C		0 0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	
	12:15 PM	0	C) (o c		0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	
Midday	12:30 PM	0	C		0 0		0	0		0		0						0	0	0	0	0	
Ē	12:45 PM	0	C	_	0 0		0	0		0		0					_	0	0			0	
	1:00 PM	0	0	_	0 0		0	0	_	0	0	0	_		0	_		0	0	_	0	0	-
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	2:15 PM	0					0	0		0		0						0				0	
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	3:15 PM	0	2		0 0		0	0	_	0		0				_	0	0	0	_	0	5	
	3:30 PM	0	C		0 0		0	0		0				_				0	0			4	_
	3:45 PM 4:00 PM	0	1		0 0		0	0		0	0	0					0	0	0	0		1 4	-
	4:15 PM	0	2				0	0		0		0					0	0	0	0	0	5	\vdash
	4:30 PM	0					0	0		0	0						1	0				2	
	4:45 PM	0	C		0 0		0	0	_	0		0			0		0	0	0			3	
_	5:00 PM	0	2	_	0 0) 2	0	0	0	0		0	1	0	0		0	0	0	0	0	3	
Period	5:15 PM	0	C		0 0		0	0		0	0	0	0	0			0	0	_			0	
Jer	5:30 PM	0	С		0 0		0	0		0		0					_	0	0			0	
	5:45 PM	0	1	_	0 0		0	0		0	0	0			0			0	0		0	4	\vdash
Peak	6:00 PM	0	0		0 0		0	0		0	0	0			0			0	0	0	0	0	\vdash
-	6:15 PM 6:30 PM	0	0	+	0 0	-	0	0		0		_					_	0	_			0	\vdash
€	6:45 PM	0	0		0 0		0	0		0								0				0	\vdash
	7:00 PM	0	0		0 0			0										0					
	7:15 PM	0	C	_	0 0		0	0		0	_			_				0	_			0	
	7:30 PM	0	C		0 0		0	0	_	0								0	_			0	
	7:45 PM	0	С		0 0		0	0		0								0				0	
	8:00 PM	0	С		0 0		0	0		0				_				0				0	
	8:15 PM	0	0		0 0		0	0		0								0				0	L
	8:30 PM	0	0		0 0			0		0								0				0	L
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	9:30 PM	0	0				0	0	_	0			_		-	_		0	_			0	
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Dook	Haur	Hanne	Vohicle	Valuma	Summary

_	ak moar m	/					· ,															
Г				¥					+					1					→			
Но	urly		Fre	om No	orth			F	rom E	ast			Fr	om Sc	uth			Fr	om W	/est		Total
Tin	me Period Shopiere Rd								0				Sł	nopiere	Rd				Creek I	₹d		Hourly
Sta					Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume	
ΑN	7:15 AM	0	12	0	0	12	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	23
MI	D 12:00 PM 0 0 0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PΝ	3:45 PM 0 7 0 0 7					7	0	0	0	0	0	0	4	0	0	4	1	0	0	0	1	12

Version 2011.J3 Page 1 of 11 Start Date: Thursday, May Total Number of Hours Counted: 14 Weekday Non-Holiday Schools in Session No Special Events Thursday, May 23, 2024

Base Information, Observed (14) Hour and Estimated (24) Hour Volume Summaries

Intersection of: Shopiere Rd and Hart Rd

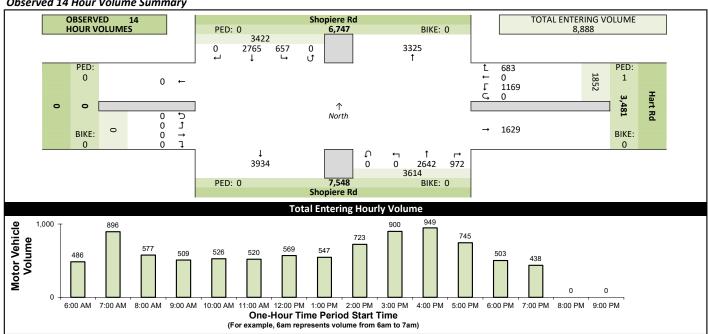


Municipality	City of Beloit		
County	Rock	WisDOT	Γ Region SE
Traffic Control	Traffic Signal		
Roadway Names		North Direction	1
North Leg	Shopiere Rd		•
East Leg			
South Leg	Shopiere Rd		
West Leg			
Special Consider	ations		
Schools	In Session		
Holidays			
Special Events			
Special Pedestria	ins Observed		
	Pr	e-school children	None
	Elementry scl	hool age children	None
1	/isually impaired (white	cane/helper dog)	None
	Elderly/disabled (exc	cept wheelchairs)	None
	Wheelchairs	/electric scooters	None
Other (de	scribe)	None	None

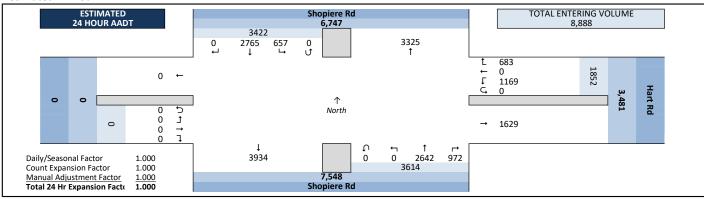
Count Information

Count iiiio	illation						
Hrs Counted:	6:00 AM - 9:00	AM and	d 3:00 P	M to 6:00 PM			
Count Dates						Weath	ier
AM Peak	Period Thursda	y, May	23, 202	4		Clear 8	ያ Dry
Midday Peak	Period Thursda	y, May	23, 202	4		Clear 8	& Dry
PM Peak	Period Thursda	y, May	23, 202	4		Clear 8	ያ Dry
Calculated Pe	ak Hours						
AM	7:15-8:15am	MD	12:00-	1:00pm		PM	3:30-4:30pm
Peak Hours S	elected for Analy	rsis					
	7:15-8:15am		12:00-			PM	3:45-4:45pm
				an Arterials & Coll			
(Count Expansion	Group	(4) Rur	al Arterials & Colle	ctors		
Daily/Seaso	onal Adjustment	Factor	1.000		Count Exp	ansion	Factor 1.000
Compan	y Name AECOM					Manı	ual Adj. 1.000
Observers	AM Peak	Period	MioVis	ion			•
	Midday Peak	Period	MioVis	ion			
	PM Peak	Period	MioVis	ion			
Comments				•			

Observed 14 Hour Volume Summary



Estimated 24 Hour AADT



Peak Hour Volume Summary

Shopiere Rd and Hart Rd

Peak Hour Volumes, Truck Percentages, and PHFs





									-					•								
Thu	ırsday, May 23, 2024			Ψ					←					个					→			
			Fro	m No	rth			Fre	om Ea	st			Fro	m Sou	ıth			Fro	m We	est		
	AM Peak Hour		Sho	opiere	Rd			ŀ	lart Rd				Sho	piere l	Rd				0			
	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
	7:15 AM	0	58	21	0	79	31	0	26	0	57	24	87	0	0	111	0	0	0	0	0	247
E	7:30 AM	0	66	16	0	82	26	0	32	0	58	28	91	0	0	119	0	0	0	0	0	259
오	7:45 AM	0	69	26	0	95	19	0	21	0	40	17	75	0	0	92	0	0	0	0	0	227
ž	8:00 AM	0	40	15	0	55	17	0	19	0	36	19	54	0	0	73	0	0	0	0	0	164
Pe	Peak Hour Volume	0	233	78	0	311	93	0	98	0	191	88	307	0	0	395	0	0	0	0	0	897
Ξ	Rounded Hourly Volume	0	235	80	0	315	95	0	100	0	195	90	305	0	0	395	0	0	0	0	0	905
A	% Single Unit Trucks	0.0	2.6	17.9	0.0	6.4	23.7	0.0	2.0	0.0	12.6	0.0	2.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	5.6
	% Heavy Trucks	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	0.0
	% Trucks (Total)	0.0	2.6	17.9	0.0	6.4	23.7	0.0	2.0	0.0	12.6	0.0	2.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	5.6
	Peak Hour Factor (PHF)	0.00	0.84	0.75	0.00	0.82	0.75	0.00	0.77	0.00	0.82	0.79	0.84	0.00	0.00	0.83	0.00	0.00	0.00	0.00	0.00	0.87

Thu	ursday, May 23, 2024		Fro	↓ m No	rth			Fre	← om Ea	st			Fro	↑ m Sou	ıth			Fro	→ om We	est		
	MD Peak Hour		Sho	opiere	Rd			ŀ	lart Rd	1			Sho	opiere l	Rd				0			
⊾	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
1 3	12:00 PM	0	53	6	0	59	6	0	19	0	25	18	38	0	0	56	0	0	0	0	0	140
12	12:15 PM	0	51	10	0	61	12	0	17	0	29	21	39	0	0	60	0	0	0	0	0	150
ea	12:30 PM	0	28	13	0	41	7	0	18	0	25	14	46	0	0	60	0	0	0	0	0	126
۱۵	12:45 PM	0	51	13	0	64	12	0	16	0	28	18	43	0	0	61	0	0	0	0	0	153
18	Peak Hour Volume	0	183	42	0	225	37	0	70	0	107	71	166	0	0	237	0	0	0	0	0	569
15	Rounded Hourly Volume	0	185	40	0	225	35	0	70	0	105	70	165	0	0	235	0	0	0	0	0	565
g	% Single Unit Trucks	0.0	2.7	28.6	0.0	7.6	18.9	0.0	1.4	0.0	7.5	4.2	3.6	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	6.0
ij	% Heavy Trucks	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	0.0
<	% Trucks (Total)	0.0	2.7	28.6	0.0	7.6	18.9	0.0	1.4	0.0	7.5	4.2	3.6	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	6.0
	Peak Hour Factor (PHF)	0.00	0.86	0.81	0.00	0.88	0.77	0.00	0.92	0.00	0.92	0.85	0.90	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.93

Thu	ırsday, May 23, 2024		Fro	₩ m No	rth			Fre	← om Ea	st			Fro	↑ m Sou	ıth			Fro	→ m We	est		
	PM Peak Hour		Sho	piere	Rd			ŀ	lart Rd				Sho	opiere l	Rd				0			
	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
	3:45 PM	0	97	16	0	113	19	0	51	0	70	25	56	0	0	81	0	0	0	0	0	264
l≒	4:00 PM	0	80	21	0	101	11	0	37	0	48	35	81	0	0	116	0	0	0	0	0	265
١ĕ	4:15 PM	0	76	18	0	94	8	0	28	0	36	35	70	0	0	105	0	0	0	0	0	235
Ιž	4:30 PM	0	63	15	0	78	15	0	23	0	38	35	56	0	0	91	0	0	0	0	0	207
Je Se	Peak Hour Volume	0	316	70	0	386	53	0	139	0	192	130	263	0	0	393	0	0	0	0	0	971
ΙĒ	Rounded Hourly Volume	0	315	70	0	385	55	0	140	0	195	130	265	0	0	395	0	0	0	0	0	975
P	% Single Unit Trucks	0.0	1.3	4.3	0.0	1.8	7.5	0.0	2.2	0.0	3.6	2.3	1.1	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	2.1
	% Heavy Trucks	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	0.0
	% Trucks (Total)	0.0	1.3	4.3	0.0	1.8	7.5	0.0	2.2	0.0	3.6	2.3	1.1	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	2.1
	Peak Hour Factor (PHF)	0.00	0.81	0.83	0.00	0.85	0.70	0.00	0.68	0.00	0.69	0.93	0.81	0.00	0.00	0.85	0.00	0.00	0.00	0.00	0.00	0.92

Pe	destrians and Bicyclists	Cr	ossing	•	Cr	ossing	1	Cr	ossing	2,511	Cr	ossing 🛔	Acres 1	Total
Г	4 4	North App	oroach		East App	oroach	1	South App	oroach 🕶	-	West App	oroach 🕡		Ped &
	7 010	Sh	opiere Rd			Hart Rd		Sh	opiere Rd			0		Bike
	15-Minute Start Time	Pedestrian	Bicyclist	Total	Volume									
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
_	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
۱₿	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
l `	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
١.	12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
18	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
l	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
_	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
I≧	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Ι `	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0

15-Minute Motor Vehicle Data

Shopiere Rd and Hart Rd

15-Minute Motor Vehicle Data

 Count Basics
 Page 5 of 11

 Start Date:
 Thursday, May 23, 2024
 Weekday
 Schools in Session

 Total Number of Hours Counted: 14
 Non-Holiday
 No Special Events



PHF

486 0.82 555 0.85 693 0.70 818 0.79 896 0.86 897 0.87 805 0.78 685 0.75 577 0.88 550 0.89 517 0.93 0.93 491 509 0.93 503 0.92 514 0.94 539 0.98 526 0.95 518 0.94 528 0.92 515 0.90 520 0.91 537 0.94 544 0.91 545 0.91 569 0.93 562 0.92 542 0.89 566 0.92 547 0.91 586 0.85 628 0.91 656 0.92 723 0.90 760 0.91 781 0.93 837 0.89 900 0.85 956 0.90 998 0.94 971 0.92 949 0.90 892 0.92 871 0.90 832 0.86 745 0.87 668 0.78 566 0.84 522 0.84 503 0.92 487 0.90 494 0.91 484 0.89 438 0.92

				¥					+					1					→				
15-	Minute		Fr	om No	orth			F	rom E	ast			Fr	om So	uth			Fr	om W	/est			
Tim	e Period		S	hopiere	e Rd				Hart R	d			Sł	opiere	e Rd				0			15-Min	Hourly
Sta	rt Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals	Sum
	6:00 AM	0	12		_		11	0	8	0	19	14	44	0	0	58	0	0	0		0	94	486
	6:15 AM	0	21	7	0	28	18	0	10	0	28	11	42	0	0	53	0	0	0	0	0	109	555
	6:30 AM	0	24	10	0	34	12	0	14	0	26	28	46	0	0	74	0	0	0	0	0	134	693
	6:45 AM	0	41				18	0	16	0	34	19	37	0	0	56	0	0	0		0	149	818
7	7:00 AM	0	41	_			18	0	31	0		14	54	0	0	68	0	0			0	163	896
Į.į	7:15 AM	0	58		0		31	0	26	0		24	87	0		111	0	0			0	247	897
Period	7:30 AM	0	66		_		26	0	32	0	58	28	91	0	0	119	0	0			0	259	805
ak	7:45 AM 8:00 AM	0	69				19	0	21	0	40	17	75	0	0	92	0	0	0		0	227	685 577
je l	8:00 AIVI 8:15 AM	0	40 42		0		17 19	0	19 26	0	36 45	19 24	54 34	0	0	73 58	0	0			0	164 155	550
A M	8:30 AM	0	39		0		16	0	19	0	35	14	40	0	0	54	0	0	0		0	139	517
₹	8:45 AM	0	32	7			18	0	25	0		9	28	0	_	37	0	0	_	-	0	119	491
	9:00 AM	0	33		0		20	0	23	0	43	11	38	0	0	49	0	0	0	_	0	137	509
	9:15 AM	0	27				11	0	19	0	30	14	46	0	0	60	0	0	0	_	0	122	503
	9:30 AM	0	25	7	0	32	10	0	18	0	28	17	36	0	0	53	0	0	0	0	0	113	514
	9:45 AM	0	34	-			10	0	18	0	28	14	52	0	0	66	0	0			0	137	539
	10:00 AM	0	36	_	_		13	0	21	0		15	39	0		54	0	0	_		0	131	526
	10:15 AM	0	43		0		11	0	13	0	24	16	36	0	0	52	0	0			0	133	518
	10:30 AM	0	35		0		9	0	18	0	27	8		0	0	65	0	0			0	138	528
8	10:45 AM	0	34		0		9	0	14	0	23	16	39	0	0	55	0	0	0		0	124	515
Period	11:00 AM 11:15 AM	0	41 45	11 7	0		13 14	0	16 23	0	29 37	13 16	29 38	0	0	42 54	0	0			0	123 143	520 537
Pe	11:30 AM	0	45				8	0	17	0	25	10	42	0	0	52	0	0	_		0	125	544
eak	11:45 AM	0	38				17	0	8	0	25	16	40	0	0	56	0	0	0		0	129	545
P P	12:00 PM	0	53				6	0	19	0		18	38	0		56	0	0			0	140	569
جَ	12:15 PM	0	51				12	0	17	0		21	39	0	0	60	0	0	0		0	150	562
Midday	12:30 PM	0	28	13	0	41	7	0	18	0	25	14	46	0	0	60	0	0	0	0	0	126	542
١š	12:45 PM	0	51	13	0	64	12	0	16	0		18	43	0	0	61	0	0	0	0	0	153	566
1	1:00 PM	0	34		0		7	0	22	0	29	10	47	0	0	57	0	0	_		0	133	547
	1:15 PM	0	35		0		6	0	11	0	17	15	51	0	0	66	0	0	_		0	130	586
	1:30 PM	0	39		_		10	0	19	0	29	13	53	0	0	66	0	0		_	0	150	628 656
_	1:45 PM 2:00 PM	0	40		_		8	0	19 27	0	27 38	18 22	43 53	0	0	61 75	0	0	_	_	0	134 172	723
	2:15 PM	0	49 55				11 10	0	30	0		14	53	0		67	0	0			0	172	760
	2:30 PM	0	70		0		15	0	22	0	37	14	50	0	0	64	0	0	_	_	0	178	781
	2:45 PM	0	82		_		12	0	19	0	31	24	46	0	0	70	0	0	0		0	201	837
	3:00 PM	0	69	_			13	0	25	0		24	58	0	0	82	0	0			0	209	900
	3:15 PM	0	74	15	0		14	0	18	0	32	21	51	0	0	72	0	0	0	0	0	193	956
	3:30 PM	0	81	28	0	109	11	0	23	0	34	22	69	0	0	91	0	0	0	0	0	234	998
	3:45 PM	0	97				19	0	51	0		25	56	0	0	81	0	0	0		0	264	971
	4:00 PM	0	80		0		11	0	37	0		35	81	0	0	116	0	0	0		0	265	949
	4:15 PM	0	76				8	0	28	0	36	35	70	0	0	105	0	0	0		0	235	892
	4:30 PM	0	63		0		15	0	23	0	38	35	56	0	0	91	0	0	0		0	207	871
	4:45 PM 5:00 PM	0	78 66		0		16 9	0	29 31	0	45 40	29 23	71 68	0	0	100 91	0	0	0	_	0	242 208	832 745
Z	5:15 PM	0	79		0		13	0	36	0	40	23	54	0	0	75	0	0	_	_	0	208	668
Period	5:30 PM	0	50		0		15	0	30	0	45	19	39	0	0	58	0	0			0	168	566
۾	5:45 PM	0	56		0		10	0	20	0	30	19	38	0	0	57	0	0	0	_	0	155	522
a	6:00 PM	0	55	+	0		9	0	19	0	28	12	25	0	0	37	0	0	0		0	131	503
1 %	6:15 PM	0	40	4	_	44	6	0	22	0	28	10	30	0	0	40	0	0	0		0	112	487
M	6:30 PM	0	46		0		4	0	19	0	23	12	32	0	0	44	0	0	_		0	124	494
	6:45 PM	0	60				7	0		0		11	30	0		41	0	0			0	136	484
	7:00 PM	0	55		_		6	0		0		6		0		36	0	0	_		0		438
	7:15 PM 7:30 PM	0	56				5	0	_	0		_		0		36 47	0	0		_	0	119	
	7:45 PM	0	40 40		_		8			0		7 8		0		47	0	0	_		0		
	8:00 PM	0	0		_		0		_	_						0	0	0			0	90	
	8:15 PM	0	0				0	0		_				0		0	0	0	_		0	0	
	8:30 PM	0	0		_		0		_	_		_				0	_	0		_	0	0	
	8:45 PM	0	0				0	0				_				0	0	0		0	0	0	
	9:00 PM	0	0		_		0	0	0			_		0		0	0	0			0	0	
	9:15 PM	0	0				0	0	_	_						0		0			0	0	
	9:30 PM	0	0				0	0	_	_		_				0	0	0	_		0	0	
-	9:45 PM	0	0	_			0	0	_	_	_	_				0	0	0	_	_	0	0	
Tot	ais	0	2765	657	0	3422	683	0	1169	0	1852	972	2642	0	0	3614	0	0	0	0	0	8888	

			_
Peak Hour	All Venicle	voiume	Summarv

				$\overline{\mathbf{v}}$					+					<u> </u>					→			
Hou	ırly		Fre	om No	orth			F	rom E	ast			Fr	om So	uth			Fr	om W	est		Total
Tim	e Period								Hart R	d			Sł	opiere	Rd				0			Hourly
Sta					Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume	
AM	7:15 AM	0	233	78	0	311	93	0	98	0	191	88	307	0	0	395	0	0	0	0	0	897
MD	12:00 PM	0	183	42	0	225	37	0	70	0	107	71	166	0	0	237	0	0	0	0	0	569
РМ	3:45 PM	0	316	70	0	386	53	0	139	0	192	130	263	0	0	393	0	0	0	0	0	971

PHF
0.87
0.93
0.92

15-Minute Heavy Vehicle Data

Shopiere Rd and Hart Rd

15-Minute Heavy Vehicle Data

Count Basics Page 9 of 11 Start Date: Thursday, May 23, 2024 Weekday Schools in Session Total Number of Hours Counted: 14 Non-Holiday No Special Events



	Minute F			om No				F	rom Ea	st			Fr	↑ om So	outh			Fr	→ rom W	/est			
Tim	e Period		S	hopiere	e Rd				Hart Ro	ı			Sł	opier	e Rd				0			15-Min	Hourly
Star	t Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals	Sum
	6:00 AM	0	0		_		2	0		0		0		0		0	0	0	_				2
	6:15 AM	0	0				2	0		0	_	0		0		0	0	0	_				3:
	6:30 AM 6:45 AM	0	1	_	_		2 3	0		0		0 1	0	0		3	0	0	_				4:
	7:00 AM	0	1	_	0		2	0	_	0		2		0	_	3	0	0	_				43
po	7:15 AM	0	1	3	0		6	0		0	6	0	1	0		1	0	0	_			11	50
Period	7:30 AM	0	2	2	0	4	3	0	0	0	3	0	3	0	0	3	0	0	0	0	0	10	56
ak P	7:45 AM	0	0		0		5	0		0	7	0		0		2	0	0					6.
o	8:00 AM	0	3		0		8	0	-	0	8	0		0		0	0	0				15	63
MP	8:15 AM 8:30 AM	0	<u>2</u> 5		0		4 7	0	-	0		1	3	0	_	5	0	0	_				64
A	8:45 AM	0	1	3	0		6	0		0		1	1	0		2	0	0					52
	9:00 AM	0	3		0		3	0		0	-	0		0	_	5	0	0	_				52
	9:15 AM	0	6		0		6	0	_	0		2	2	0	_	4	0	0	_				53
	9:30 AM	0	1		_		4	0	_	0		0		0	_	0	0	0	_				48
	9:45 AM	0	0		_		4	0	_	0		1	3	0		4		0	_				54
	10:00 AM	0	4				5	0		0		0		0		4	0	0					50
	10:15 AM 10:30 AM	0	2 1	8 4	0		2 3	0		0		0		0		2	0	0	_	_			49
	10:45 AM	0	2	7	0		4		-	0	-	0		0	_	1	0	0	_				44
iod	11:00 AM	0	2	3	0		2	0		0		1	1	0		2	0	0				-	43
<i>a</i>	11:15 AM	0	1	1	0	2	8	0	2	0	10	0	0	0	0	0	0	0	0	0	0	12	36
k P	11:30 AM	0	2				3	0	_	0	-	1	0	0		1	0	0	_				32
eak	11:45 AM	0	2	3	0		6			0		0		0		1	0	0	_	_			35
y Pe	12:00 PM 12:15 PM	0	1	0 4			2 1	0		0	1	0		0		2	0	0	_			3 8	34 44
Viidday	12:30 PM	0	2	3	0		2	0		0		1	3	0		4	0	0					47
Λid	12:45 PM	0	1	5	0		2	0	_	0	3	2		0		3	0	0				12	45
<	1:00 PM	0	1	7	0	8	0	0		0	2	1	2	0	0	3	0	0	0	0	0	13	4:
	1:15 PM	0	0	_	0		5	0	-	0		0		0		1	0	0	_				40
	1:30 PM	0	1	5	0		2	0	-	0		1	0	0		1	0	0				9	37
_	1:45 PM 2:00 PM	0	1		0		4		_	0		0		0	_	2	0	0	_	_			35
	2:15 PM	0	2 1	0	0		2 1	0		0		1 1	1 0	0		1	0	0				12 8	2:
	2:30 PM	0	0		0		4	0		0		0		0		1	0	0					19
	2:45 PM	0	0	2	0	2	1	0	0	0	1	2	0	0	0	2	0	0	0	0	0	5	19
	3:00 PM	0	0	_	0		0	0	-	0	-	0		0		1	0	0	_			1	18
	3:15 PM	0	1	1	0		2	0	-	0		0		0		2	0	0					26
	3:30 PM 3:45 PM	0	2		0		0	0		0	1	1	3	0		4	0	0	_	_		4	23
	4:00 PM	0	1		0		2	0		0	4	1	2	0		3	0	0	_			9	18
	4:15 PM	0	0		0		1	0		0	1	1		0		1	0	0					1:
	4:30 PM	0	1	1	0	2	1	0	0	0	1	0	1	0	0	1	0	0	0	0	0	4	13
	4:45 PM	0	0				1	0	-	0		0	_	0		0	0	0	_				
p	5:00 PM	0	1	0			0		-	0		0		0		1	0	0				2	
Period	5:15 PM 5:30 PM	0	0	_			0	0	-	0		0		0		0	0	0				3	- '
Pe	5:45 PM	0	0				0	0	-	0		0		0		0	0	0					
eak	6:00 PM	0	2	0	0		0	0		0	-	0	_	0	_	1	0	0	_			_	
ı Pe	6:15 PM	0	0	_			0	0	_	0	1	0		0		0	0	0	_			1	
M	6:30 PM	0	0							0		0				1	0						1:
	6:45 PM	0	0				0			0		0		0		0	_	0					1:
	7:00 PM 7:15 PM	0	1 2		_		3 0			0						1		0	_				17
	7:15 PM 7:30 PM	0	0				0		-	0				0		2	0	0	_				
	7:45 PM	0	0		_		0		-	0				0		1	_	0	_				
	8:00 PM	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	8:15 PM	0	0							0						0		0					
	8:30 PM	0	0				0		-	0				0		0		0					
	8:45 PM 9:00 PM	0	0		_				_	0					_	0	_	0	_				
	9:15 PM	0	0				0	_		0				0		0	_	0	_				
	9:30 PM	0	0	_	_		_			0				0	_	0		0	_				
	9:45 PM	0	0							0					_	0		0				-	
Tota	als	0	64	119	0	183	136	0	42	0	178	27	63	0	0	90	0	0	0	0	0	451	

Dook	Haur	Hanne	Vahida	Valuma	Summary

				$\mathbf{\Psi}$					+					1					→			
Hou	urly		Fre	om No	orth			F	rom E	ast			Fr	om So	uth			Fr	om W	'est		Total
Tim	e Period		Sł	opiere	Rd				Hart R	d			Sł	nopiere	Rd				0			Hourly
Sta	rt Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume
AM	7:15 AM	0	6	14	0	20	22	0	2	0	24	0	6	0	0	6	0	0	0	0	0	50
MD	12:00 PM	0	5	12	0	17	7	0	1	0	8	3	6	0	0	9	0	0	0	0	0	34
PM	3:45 PM	0	4	3	0	7	4	0	3	0	7	3	3	0	0	6	0	0	0	0	0	20

Version 2011.J3 Page 1 of 11 Start Date: Thursday, May Total Number of Hours Counted: 14 Weekday Non-Holiday Schools in Session No Special Events Thursday, May 23, 2024

Base Information, Observed (14) Hour and Estimated (24) Hour Volume Summaries

Intersection of: Shopiere Rd and Inman Parkway

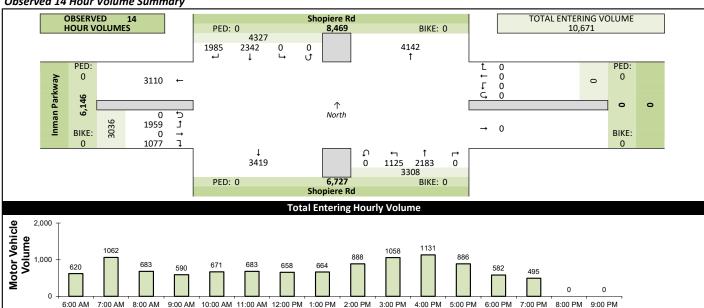


Municipality			
County		WisDOT	「Region SE
Traffic Control	Partial Stop Control		·
Roadway Names		North Direction	1
	Shopiere Rd		
East Leg			
South Leg	Shopiere Rd		
	Inman Parkway		
Special Considera	ations		
Schools	In Session		
Holidays	None		
Special Events	None		
Special Pedestria	ns Observed		
	Pr	e-school children	None
	Elementry scl	hool age children	None
V	isually impaired (white	cane/helper dog)	None
	Elderly/disabled (exc	ept wheelchairs)	None
	Wheelchairs,	/electric scooters	None
Other (de:	scribe)	None	None

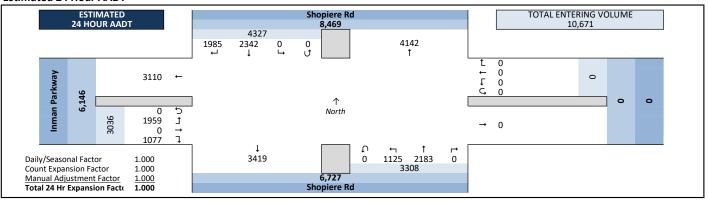
Count Information

Count inio	illation						
Hrs Counted:	6:00 AM - 9:00	AM and	d 3:00 P	M to 6:00 PM			
Count Dates						Weath	ier
	Period Thursda					Clear 8	ያ Dry
Midday Peak	Period Thursda	y, May	23, 202	.4		Clear 8	& Dry
PM Peak	Period Thursda	y, May	23, 202	!4		Clear 8	ያ Dry
Calculated Per	ak Hours						
AM	7:00-8:00am	MD	11:30-	12:30am		PM	3:30-4:30pm
Peak Hours Se	lected for Analy	sis					
AM	7:15-8:15am	MD	11:30-	12:30am		PM	3:45-4:45pm
Daily/Seaso	nal Adjustment	Group	(2) Urb	an Arterials & Co	llectors		•
C	Count Expansion	Group	(4) Rur	al Arterials & Coll	ectors		
Daily/Seaso	nal Adjustment	Factor	1.000		Count Exp	ansion	Factor 1.000
Company	Name AECOM					Manu	ual Adj. 1.000
Observers							•
	Midday Peak						
	PM Peak	Period	MioVis	sion			
Comments				•			•

Observed 14 Hour Volume Summary



Estimated 24 Hour AADT



One-Hour Time Period Start Time (For example, 6am represents volume from 6am to 7am)

Peak Hour Volume Summary

Shopiere Rd and Inman Parkway

Count Basics
Start Date: Thursday, May 23, 2024
Total Number of Hours Counted: 14



Weekday Non-Holiday Page 3 of 11
Schools in Session

No Special Events

hursday, May 23, 2024		Fro	₩ m No	rth			Fr	← om Ea	st			Fro	↑ m Sou	uth			Fro	→ om We	est		
AM Peak Hour		Sh	opiere	Rd				0				Sho	opiere	Rd			Inma	an Park	way		
Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Tot
7:15 AM	44	51	0	0	95	0	0	0	0	0	0	65	54	0	119	31	0	40	0	71	
7:30 AM	49	54	0	0	103	0	0	0	0	0	0	76	41	0	117	29	0	47	0	76	
7:45 AM	54	48	0	0	102	0	0	0	0	0	0	60	34	0	94	47	0	43	0	90	
8:00 AM	25	30	0	0	55	0	0	0	0	0	0	50	21	0	71	26	0	37	0	63	
Peak Hour Volume	172	183	0	0	355	0	0	0	0	0	0	251	150	0	401	133	0	167	0	300	1
Rounded Hourly Volume	170	185	0	0	355	0	0	0	0	0	0	250	150	0	400	135	0	165	0	300	1
% Single Unit Trucks	7.6	1.6	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.8	12.7	0.0	5.2	12.8	0.0	9.0	0.0	10.7	\Box
% Heavy Trucks	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	
% Trucks (Total)	7.6	1.6	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.8	12.7	0.0	5.2	12.8	0.0	9.0	0.0	10.7	
Peak Hour Factor (PHF)	0.80	0.85	0.00	0.00	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.69	0.00	0.84	0.71	0.00	0.89	0.00	0.83	(

Th	ursday, May 23, 2024		Fro	↓ m No	rth			Fre	← om Ea	st			Fro	↑ m Sou	uth			Fro	→ om We	est		
	MD Peak Hour		Sho	piere	Rd				0				Sh	opiere	Rd			Inma	n Park	way		
Ļ	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
٤	11:30 AM	30	37	0	0	67	0	0	0	0	0	0	37	15	0	52	9	0	37	0	46	165
1 4	11:45 AM	49	34	0	0	83	0	0	0	0	0	0	30	26	0	56	15	0	35	0	50	189
0	12:00 PM	41	36	0	0	77	0	0	0	0	0	0	28	13	0	41	16	0	33	0	49	167
٦	12:15 PM	30	41	0	0	71	0	0	0	0	0	0	34	16	0	50	18	0	28	0	46	167
IS	Peak Hour Volume	150	148	0	0	298	0	0	0	0	0	0	129	70	0	199	58	0	133	0	191	688
15	Rounded Hourly Volume	150	150	0	0	300	0	0	0	0	0	0	130	70	0	200	60	0	135	0	195	695
٦	% Single Unit Trucks	20.0	3.4	0.0	0.0	11.7	0.0	0.0	0.0	0.0	0.0	0.0	1.6	21.4	0.0	8.5	13.8	0.0	6.0	0.0	8.4	9.9
15	% Heavy Trucks	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	0.0
<	% Trucks (Total)	20.0	3.4	0.0	0.0	11.7	0.0	0.0	0.0	0.0	0.0	0.0	1.6	21.4	0.0	8.5	13.8	0.0	6.0	0.0	8.4	9.9
	Peak Hour Factor (PHF)	0.77	0.90	0.00	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.67	0.00	0.89	0.81	0.00	0.90	0.00	0.95	0.91

Thu	ırsday, May 23, 2024		Fro	₩ No	rth			Fre	← om Ea	st			Fro	↑ m Sou	ıth			Fro	→ om We	est		
	PM Peak Hour		Sho	piere	Rd				0				Sho	opiere	Rd			Inma	n Park	way		
	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
	3:45 PM	37	79	0	0	116	0	0	0	0	0	0	53	27	0	80	31	0	61	0	92	288
k	4:00 PM	45	74	0	0	119	0	0	0	0	0	0	70	22	0	92	29	0	54	0	83	294
١ş	4:15 PM	52	71	0	0	123	0	0	0	0	0	0	54	22	0	76	27	0	53	0	80	279
Ιž	4:30 PM	54	64	0	0	118	0	0	0	0	0	0	44	26	0	70	20	0	59	0	79	267
۶ ا	Peak Hour Volume	188	288	0	0	476	0	0	0	0	0	0	221	97	0	318	107	0	227	0	334	1128
ΙĒ	Rounded Hourly Volume	190	290	0	0	480	0	0	0	0	0	0	220	95	0	315	105	0	225	0	330	1125
ء	% Single Unit Trucks	7.4	1.7	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	6.2	0.0	2.5	2.8	0.0	3.5	0.0	3.3	3.4
	% Heavy Trucks	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	0.0
	% Trucks (Total)	7.4	1.7	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	6.2	0.0	2.5	2.8	0.0	3.5	0.0	3.3	3.4
	Peak Hour Factor (PHF)	0.87	0.91	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.90	0.00	0.86	0.86	0.00	0.93	0.00	0.91	0.96

Pe	destrians and Bicyclists	Cr	ossing	•	Cr	ossing	1	Cr	ossing	Desc.	Cr	ossing	len.	Total
	4 6	North App	roach		East App	roach	1	South App	roach 🕶	-	West App	oroach 🗼		Ped &
	7 010	Sho	opiere Rd			0		Sho	opiere Rd		Inma	an Parkway		Bike
	15-Minute Start Time	Pedestrian	Bicyclist	Total	Pedestrian	Bicyclist	Total	Pedestrian	Bicyclist	Total	Pedestrian	Bicyclist	Total	Volume
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
_	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
≩	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
`	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0
	11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
٦	11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
18	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
۱_	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
ΙŠ	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0

15-Minute Motor Vehicle Data

Shopiere Rd and Inman Parkway



Weekday Non-Holiday

Page 5 of 11
Schools in Session

PHF

620 0.87 691 0.89 819 0.72 0.81 1062 0.90 0.89 1056 943 0.80 819 0.72 683 0.90 651 0.95 631 0.92 592 0.94 590 0.94 598 0.91 612 668 0.92 671 0.89 672 0.89 669 0.88 645 0.97 683 0.90 684 0.90 688 0.91 673 0.89 658 0.95

639 0.92 685 0.87 664 0.85 680 0.87 756 0.86 793 0.85 888 0.90 943 0.95 966 0.97 1018 0.89 1058 0.92 1111 0.94 1146 0.97 1128 0.96 1131 0.96 1085 0.93 1041 0.89 991 0.85 886 0.89 796 0.85 685 0.79 617 0.83 582 0.92 566 0.94 571 0.95 548 0.91 495 0.87

No Special Events

Count Basics
Start Date: Thursday, May 23, 2024

Total Number of Hours Counted: 14

15	-Minute N	Notor	· Vehic	le Da	ita									-				0.0				9 99	
				Ψ					←					个					→				
15-	Minute		Fr	om N	orth			F	rom E	ast			Fr	om Sc	outh			Fr	om W	/est			
Tim	e Period		SI	nopiere	e Rd				0				SI	nopiere	e Rd			Inm	an Par	kway		15-Min	Hourly
Sta	rt Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals	Sum
	6:00 AM	20	9	_	_	29	0		_	_				14	0	58	6	0	31	0	37	124	620
	6:15 AM 6:30 AM	28 41	20 22	0		48 63	0							21 15	0	62 56	10 15	0	37 27	0	47 42	157 161	691 819
	6:45 AM	40	36	0		76	0		0	_				21	0	59	17	0	26	0	43	178	954
_	7:00 AM	29		0		63	0			_					0	74	12	0	46	0	58	195	1062
Period	7:15 AM	44	51	0	0	95	0	0	0	0	0	0	65	54	0	119	31	0	40	0	71	285	1056
er.	7:30 AM	49	54	0		103	0		0	_				41	0	117	29	0	47	0	76	296	943
Ιž	7:45 AM	54	48	0		102	0			_			60		0	94	47	0	43	0	90	286	819
Peak	8:00 AM 8:15 AM	25 37	30 26	0		55 63	0		0	_		0	50 34	21 20	0	71 54	26 22	0	37 33	0	63 55	189 172	683 651
AM	8:30 AM	33	32	0		65	0		_	_					0	54	19	0	34	0	53	172	631
Ā	8:45 AM	32	30			62	0							21	0	49	9	0	30	0	39	150	592
	9:00 AM	25	26	0	0	51	0	0	0	0	0	0	32	23	0	55	16	0	35	0	51	157	590
	9:15 AM	23	19	0		42	0		_	_				_	0	58	16	0	36	0	52	152	598
	9:30 AM	26		0	_	49	0							14	0	46	15	0	23	0	38	133	612 668
	9:45 AM 10:00 AM	22 33	22 27	0		44 60	0					•		23 18	0	61 51	16 18	0	27 36	0	43 54	148 165	671
	10:15 AM	29	33	0	_	62	0		_	_				17	0	46	20	0	38	0	58	166	672
	10:30 AM	35	28	0		63	0		0	-	_			23	0	65	16	0	45	0	61	189	669
١.,	10:45 AM	27	28	0		55	0		_	-				15	0	48	17	0	31	0	48	151	645
Period	11:00 AM	30		0		62	0			_				13	0	38	18	0	48	0	66	166	683
Per	11:15 AM 11:30 AM	26 30		0		64 67	0		0	_				22 15	0	55 52	15 9	0	29 37	0	44 46	163 165	684 688
	11:45 AM	49	34	0		83	0							26	0	56	15	0	35	0	50	189	673
Peak	12:00 PM	41	36			77	0		0						0	41	16	0	33	0	49	167	658
	12:15 PM	30	41	0	0	71	0	0	0	0	0	0			0	50	18	0	28	0	46	167	661
Midday	12:30 PM	36		0		59	0							10	0	51	17	0	23	0	40	150	639
Ž	12:45 PM	29	39	0		68	0		0	_				19	0	54	26	0	26	0	52	174	685
	1:00 PM 1:15 PM	31 23	32 31	0		63 54	0			_				17 11	0	54 54	17 15	0	36 22	0	53 37	170 145	664 680
	1:30 PM	31	32	0		63	0		0	_				14	0	66	26	0	41	0	67	196	756
	1:45 PM	35	36	_	_	71	0		_	_					0		6	0	23	0	29	153	793
	2:00 PM	40		0		81	0							17	0		17	0	24	0	41	186	888
	2:15 PM	56		0		107	0		0	_				22	0	61	19	0	34	0	53	221	943 966
	2:30 PM 2:45 PM	42 49	63 61	0		105 110	0		_	_				30 27	0	67 60	17 35	0	44	0	61 78	233 248	1018
	3:00 PM	49	61	0		103	0		0					21	0	68	27	0	43	0	70	240	1018
	3:15 PM	51	69	0		120	0							23	0	60	19	0	45	0	64	244	1111
	3:30 PM	43	67	0		110	0		_	_				_	0	80	41	0	54	0	95	285	1146
	3:45 PM	37	79	0		116	0						53	27	0	80	31	0	61	0	92	288	1128
	4:00 PM 4:15 PM	45 52	74 71	0		119 123	0							22	0	92 76	29 27	0	54 53	0	83 80	294 279	1131 1085
	4:30 PM	54		0		118	0		0				44	26	-	70	20	0	59	0	79	267	1041
	4:45 PM	56				126	0							32	0	86	28	0	51	0	79	291	991
۱,	5:00 PM	42	63	0	0	105	0	0	0	0	0	0	50	21	0	71	23	0	49	0	72	248	886
Period	5:15 PM	41	69	0		110	0		0	_				23	0	68	20	0	37	0	57	235	796
Per	5:30 PM	52	45	0	_	97	0		0	_		0		19	0	54	19	0	47	0	66	217	685
ak	5:45 PM 6:00 PM	41 34	52 47	0		93 81	0		0	_				17 12	0	48 35	18 14	0	27 28	0	45 42	186 158	617 582
Pec	6:15 PM	28		_	_	68	0	_	_	_	_			9	0		9	0	17	0	26	124	566
PM	6:30 PM	28				67	0										18	0	27	0	45	149	571
١٩	6:45 PM	25				75	0										17	0	23	0	40	151	548
	7:00 PM	30				75	0		_	_					0		17	0	14	0	31	142	495
	7:15 PM 7:30 PM	20 21				64 56	0							15 20			18 8	0	17 13	0	35 21	129 126	-
	7:45 PM	13				46	0			_				_			11	0	13		23	98	
	8:00 PM	0		_	_	0			_	_							_	0	0		0	0	
	8:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	8:30 PM	0		_	_	0			_	_				_				0	0	-	0	0	
	8:45 PM 9:00 PM	0				0			_	_				_		0		0	0		0	0	
	9:00 PM 9:15 PM	0				0			_									0	0	-	0	0	Ь
	9:30 PM	0				0									_	0	_	0	0	_	0	0	
	9:45 PM	0				0										0	_	0	0		0	0	
Tot	als	1985	2342	0	0	4327	0	0	0	0	0	0	2183	1125	0	3308	1077	0	1959	0	3036	10671	

Peak Hour	All Vehicle Vol	lume Summary

Г				¥					+					1					→			
Hou	rly		Fre	om No	orth			F	rom E	ast			Fr	om So	uth			Fr	om W	est		Total
Tim	e Period		Sh	opiere	Rd				0				Sł	nopiere	e Rd			Inm	an Par	kway		Hourly
Star	t Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume
AM	7:15 AM	172	183	0	0	355	0	0	0	0	0	0	251	150	0	401	133	0	167	0	300	1056
MD	11:30 AM	150	148	0	0	298	0	0	0	0	0	0	129	70	0	199	58	0	133	0	191	688
PM	3:45 PM	188	288	0	0	476	0	0	0	0	0	0	221	97	0	318	107	0	227	0	334	1128

PHF
0.89
0.91
0.96

15-Minute Heavy Vehicle Data

Shopiere Rd and Inman Parkway

Heavy Vehicles (Single-Unit Trucks, Buses & Semi-Trucks)

Weekday Non-Holiday

Count Basics
Start Date: Thursday, May 23, 2024
Total Number of Hours Counted: 14

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Schools in Session
No Special Events

Hourly Sum

91 95

15-Minute Heavy Vehicle Data

15-N	/linute			↓ om No	orth			Fi	← rom E	ast			Fre	↑ om So	outh			Fre	→ om W	/est		
Time	e Period		SI	hopiere	Rd				0				Sh	opiere	e Rd			Inm	an Par	kway		15-Min
Star	t Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
	6:00 AM	5	0		0	5	0	0	0		0		0	1		1	1	0	3	-	4	10
	6:15 AM	8	0	_	0	8	0	0	0	0	0	0	0	3	_	3	0	0	2			13
	6:30 AM	5	0	-	0	5	0	0	0	0	0		1	0		1	3	0	2		5	11
	6:45 AM	2	1		0	3	0	0	0	0	0		2	5		7	9	0	2		11	21
	7:00 AM	3	1		0	4	0	0	0	0	0		1	2		3	2	0	2		4	11
Period	7:15 AM	3	0	_	0	3	0	0	0	0	0	0	0	3	0	3	4	0	3	0	7	13
eri	7:30 AM	0	3	0	0	3	0	0	0	0	0	0	0	4	0	4	2	0	4	0	6	13
9	7:45 AM	7	0	0	0	7	0	0	0	0	0	0	1	5	0	6	5	0	4	0	9	22
Peak	8:00 AM	3	0	0	0	3	0	0	0	0	0	0	1	7	0	8	6	0	4	0	10	21
	8:15 AM	5	2	0	0	7	0	0	0	0	0	0	3	3	0	6	5	0	2	0	7	20
AM	8:30 AM	3	4	0	0	7	0	0	0	0	0	0	0	8	0	8	4	0	6	0	10	25
٦	8:45 AM	5	0	0	0	5	0	0	0	0	0	0	0	8	0	8	3	0	2	0	5	18
	9:00 AM	9	2	0	0	11	0	0	0	0	0	0	4	4	0	8	3	0	4	0	7	26
	9:15 AM	4	3	0	0	7	0	0	0	0	0	0	2	6	0	8	5	0	5	0	10	25
	9:30 AM	7	1	0	0	8	0	0	0	0	0		1	4	0	5	2	0	2	0	4	17
	9:45 AM	2	0	0	0	2	0	0	0		0	_	2	5		7	0	0	3		3	12
	10:00 AM	6	1	0	0	7	0	0	0		0		4	5		9	2	0	3		5	21
	10:15 AM	4	2	0	0	6	0	0	0	0	0		1	3		4	7	0	2	0	9	19
	10:30 AM	12	1	_	0	13	0	0	0	0	0		2	4		6	3	0	4		7	26
	10:45 AM	6	2		0	8	0	0	0	0	0		0	5		5	7	0	5		12	25
00	11:00 AM	10	1	0	0	11	0	0	0	0	0	-	0	2	0	2	3	0	5	0	8	21
Period	11:15 AM	7	1		0	8	0	0	0	0	0		0	6		6	1	0	8		9	23
	11:30 AM	7	2		0	9		0		0	0		0	5		5	0	0	3		3	17
Peak	11:45 AM	14	2		0	16	0	0	0	0	0		0	7		7	3	0	2		5	28
	12:00 PM	5	1	-	0	6		0	0	0	0		0	2		2	1	0	2		3	11
Midday	12:15 PM	4	0	_	0	4		0	0	0	0		2	1		3	4	0	1		5	12
g	12:30 PM	8	2		0	10	0	0	0	0	0		3	2	0	5	2	0	0		2	17
Ξ	12:45 PM	2	0		0	2	0	0	0	0	0	-	1	2		3	5	0	4	_	9	14
	1:00 PM	4	1	0	0	5	0	0	0	0	0		2	1	0	3	6	0	0		6	14
	1:15 PM	1	0	_	0	1	0	0	0	0	0	-	0	3		3	5	0	1	0	6	10
	1:30 PM	3	1	0	0	4	0	0	0	0	0		0	4	0	4	4	0	4	0	8	16
	1:45 PM	5	2	_	0	7	0	0	_	0	0	_	2	5	_	7	1	0	5	_	6	20
	2:00 PM	8	2		0	10	0	0	0	0	0		0	3		3	5	0	3		8	21
	2:15 PM	5	1		0	6	0	0	0	0	0		0	1	0	1	0	0	2	0	2	9
	2:30 PM	3	1	_	0	4	_	0	0	0	0		1	5		6	0	0	3		3	13
	2:45 PM	3	0		0	3	0	0	0	0	0		0	1	0	1	2	0	2	0	- 4	8
	3:00 PM	4	0		0	4	0	0	0	0	0		1	0			0	0	3	0	3	8
	3:15 PM 3:30 PM	6 6	1 0	0	0		0	0	0	0	0		0 1	0	0	4 1	1	0	<u>0</u>	0	1	12 11
	3:45 PM	4	2		0	6		0	0	0	0		0	0		0	1	0	5		6	11
	4:00 PM	1	2	_	0	3	0	0	0	0	0		0	4		4	0	0	1	0	5	8
	4:00 PM	6	0		0	<u>3</u>		0	0	0	0		1	1	_	2	2	0	1		2	11
	4:15 PIVI 4:30 PM	3	1		0	4	0	0	0	0	0		1	1		2	0	0	1	0	1	11
	4:45 PM	4	0	-	0	4	0	0	0	0	0		0	1	0	1	0	0	6	-	6	11
	5:00 PM	1	1	0	0	2	0	0	0	0	0		1	0		1	0	0	1	0	1	4
pc	5:15 PM	2	0		0	2	0	0	0	0	0		0	0		0	1	0	2	0	3	5
Period	5:30 PM	2	0		0	2	0	0	0	0	0	-	0	0	_	0	0	0	0			2
Pe	5:45 PM	2	0		0	2	0	0	0	0	0		0	0		0	0	0	0		0	2
Peak	6:00 PM	1	2		0	3	0	0	0	0	0	0	1	0		1	0	0	1	0	1	5
Pe	6:15 PM	2	0		0	2	0	0	0	0	0		0	0		0	0	0	0	0	0	2
Σ	6:30 PM	0	0	_	0	0	0	0	0	0	n	0	1	0	_	1	0	0	0	0	0	1
P	6:45 PM	0	0	_	0	0	_	0	0	0	0		0	0	_	0	1	0	0	_	1	1
	7:00 PM	1	1		0	2			0		0		0	3		3	1	0	1		2	7
	7:15 PM	0	1		0	1	0		0		0		0	0		0	2	0	0		2	3
	7:30 PM	1	0		0	1	0	0			0		1	0		1	0	0	2			4
	7:45 PM	0	0	_	0	0			0		0		1	0		1	0	0	0		0	1
	8:00 PM	0	0		0	0			0		0		0	0		0	0	0	0		0	0
	8:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 PM	0	0		0	0			0		0		0	0		0	0	0	0		0	0
	8:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
_	ls	234	51	0	0	285	0	0	0	0	0	0	45	149	0	194	125	0	136	0	261	740

Peak Hour Heavy Vehicle Volume Summary

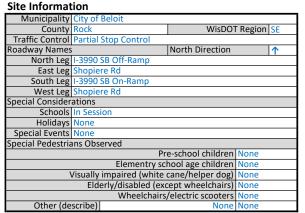
Peak Hour F	ieavy	venic	ie vo	iume	Summa	ary															
			¥					+					<u> </u>					→			
Hourly		Fr	om No	orth			F	rom E	ast			Fr	om So	uth			Fr	om W	est		Total
Time Period		SI	nopiere	e Rd				0				Sł	nopiere	Rd			Inm	an Par	kway		Hourly
Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume
AM 7:15 AM	13	3	0	0	16	0	0	0	0	0	0	2	19	0	21	17	0	15	0	32	69
MD 11:30 AM	30	5	0	0	35	0	0	0	0	0	0	2	15	0	17	8	0	8	0	16	68
PM 3:45 PM	14	5	0	0	19	0	0	0	0	0	0	2	6	0	8	3	0	8	0	11	38

Version 2011.J3 Page 1 of 11 Tuesday, May 21, 2024 Weekday No Special Events

MISCONSIN

Base Information, Observed (6) Hour and Estimated (24) Hour Volume Summaries

Intersection of: I-3990 SB Off-Ramp and Shopiere Rd



570

0

7:00 AM 8:00 AM 9:00 AM 10:00 AM 11:00 AM 12:00 PM 1:00 PM 2:00 PM

Count Information

Count information			91 110
Hrs Counted: 6:00 AM - 9:00 AM an	d 3:00 PM to 6:00 PM		
Count Dates		Weath	ner
AM Peak Period Tuesday, May 2	21, 2024	Clear	& Dry
Midday Peak Period Tuesday, May 2	21, 2024	Clear	& Dry
PM Peak Period Tuesday, May 2	21, 2024	Clear	& Dry
Calculated Peak Hours			
AM 7:00-8:00am MD		PM	4:15-5:15pm
Peak Hours Selected for Analysis			
AM 7:15-8:15am MD		PM	3:45-4:45pm
Daily/Seasonal Adjustment Group	(2) Urban Arterials & Collectors		
Count Expansion Group	(4) Rural Arterials & Collectors		
Daily/Seasonal Adjustment Factor	1.000 Count	Expansion	Factor 1.000
Company Name AECOM		Man	ual Adj. 1.000
Observers AM Peak Period			
Midday Peak Period	MioVision		
PM Peak Period	MioVision		
Comments			•

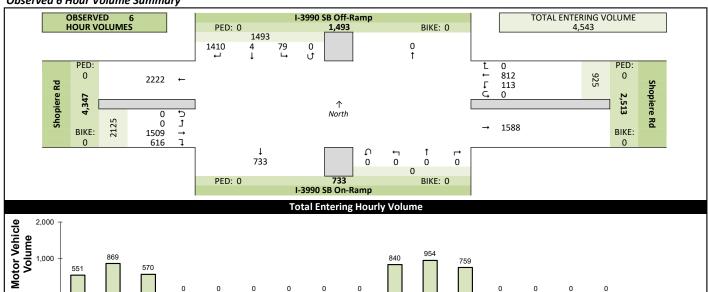
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3:00 PM 4:00 PM 5:00 PM 6:00 PM 7:00 PM 8:00 PM 9:00 PM

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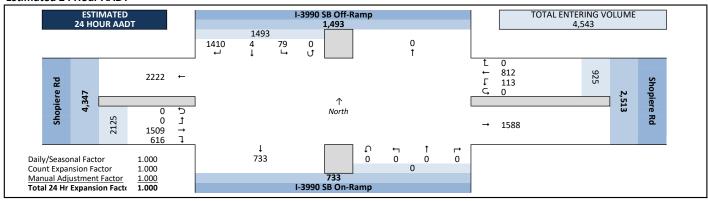
Observed 6 Hour Volume Summary



Estimated 24 Hour AADT

551

6:00 AM



One-Hour Time Period Start Time (For example, 6am represents volume from 6am to 7am)

Peak Hour Volume Summary

I-3990 SB Off-Ramp and Shopiere Rd

 Count Basics
 Page 3 of 11

 Start Date:
 Tuesday, May 21, 2024
 Weekday
 Schools in Session

 Total Number of Hours Counted: 6
 Non-Holiday
 No Special Events



Peak Hour Volumes, Truck Percentages, and PHFs

Tue	esday, May 21, 2024		Fro	₩ m No	rth			Fre	← om Ea	st			Fro	↑ m Sou	ıth			Fro	→ om We	est		
	AM Peak Hour		I-3990	SB Off-	Ramp			Sho	piere	Rd			I-3990	SB On-	Ramp			Sho	piere	Rd		
	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Total
	7:15 AM	68	1	4	0	73	0	44	7	0	51	0	0	0	0	0	33	94	0	0	127	25:
'n	7:30 AM	62	1	2	0	65	0	54	5	0	59	0	0	0	0	0	27	94	0	0	121	24
후	7:45 AM	62	0	3	0	65	0	45	1	0	46	0	0	0	0	0	28	75	0	0	103	214
ž	8:00 AM	33	0	1	0	34	0	26	6	0	32	0	0	0	0	0	29	55	0	0	84	150
)a _a	Peak Hour Volume	225	2	10	0	237	0	169	19	0	188	0	0	0	0	0	117	318	0	0	435	860
Ī	Rounded Hourly Volume	225	0	10	0	235	0	170	20	0	190	0	0	0	0	0	115	320	0	0	435	86
¥	% Single Unit Trucks	3.1	50.0	0.0	0.0	3.4	0.0	14.2	21.1	0.0	14.9	0.0	0.0	0.0	0.0	0.0	11.1	0.6	0.0	0.0	3.4	5.9
	% Heavy Trucks	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	0.0
	% Trucks (Total)	3.1	50.0	0.0	0.0	3.4	0.0	14.2	21.1	0.0	14.9	0.0	0.0	0.0	0.0	0.0	11.1	0.6	0.0	0.0	3.4	5.
	Peak Hour Factor (PHF)	0.83	0.50	0.62	0.00	0.81	0.00	0.78	0.68	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.89	0.85	0.00	0.00	0.86	0.8

N/	A		Fro	↓ m No	rth			Fre	← om Ea	st			Fro	↑ m Sou	ıth			Fro	→ om We	est		
	MD Peak Hour		I-3990	SB Off	-Ramp			Sho	piere	Rd			I-3990	SB On-	Ramp			Sh	opiere l	Rd		
<u>۔</u>	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
1 2	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ea	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
۱۵	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	Peak Hour Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
💆	Rounded Hourly Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
g	% Single Unit Trucks	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	0.0
ij	% Heavy Trucks	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	0.0
<	% Trucks (Total)	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	0.0
	Peak Hour Factor (PHF)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Tue	esday, May 21, 2024		Fro	₩ m No	rth			Fre	← om Ea	st			Fro	↑ m Sou	ıth			Fro	→ m We	est		
	PM Peak Hour		I-3990	SB Off	-Ramp			Sho	piere	Rd			I-3990	SB On-	Ramp			Sho	piere	Rd		
	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
	3:45 PM	83	0	7	0	90	0	39	8	0	47	0	0	0	0	0	27	80	0	0	107	244
l≒	4:00 PM	79	0	6	0	85	0	35	7	0	42	0	0	0	0	0	19	65	0	0	84	211
١ĕ	4:15 PM	100	1	5	0	106	0	41	5	0	46	0	0	0	0	0	22	91	0	0	113	265
Ιž	4:30 PM	75	0	6	0	81	0	38	5	0	43	0	0	0	0	0	30	85	0	0	115	239
Je Se	Peak Hour Volume	337	1	24	0	362	0	153	25	0	178	0	0	0	0	0	98	321	0	0	419	959
ΙĒ	Rounded Hourly Volume	335	0	25	0	360	0	155	25	0	180	0	0	0	0	0	100	320	0	0	420	960
ء	% Single Unit Trucks	0.3	0.0	0.0	0.0	0.3	0.0	6.5	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	8.2	1.6	0.0	0.0	3.1	2.5
	% Heavy Trucks	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	0.0
	% Trucks (Total)	0.3	0.0	0.0	0.0	0.3	0.0	6.5	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	8.2	1.6	0.0	0.0	3.1	2.5
	Peak Hour Factor (PHF)	0.84	0.25	0.86	0.00	0.85	0.00	0.93	0.78	0.00	0.95	0.00	0.00	0.00	0.00	0.00	0.82	0.88	0.00	0.00	0.91	0.90

Pe	destrians and Bicyclists	Cr	ossing 🖆	-	Cr	ossing	•	Cr	ossing	Den.	Cr	ossing 🛔	Total Control	Total
	۶. ۲	North App	oroach		East App	roach	T.	South App	oroach 🕶	-	West App	oroach 🕡		Ped &
	7 010	1-3990	SB Off-Ramp		She	opiere Rd		1-3990	SB On-Ramp		Sh	opiere Rd		Bike
	15-Minute Start Time	Pedestrian	Bicyclist	Total	Pedestrian	Bicyclist	Total	Pedestrian	Bicyclist	Total	Pedestrian	Bicyclist	Total	Volume
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
_	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
≩	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
 `	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
١_	12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
18	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
_	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
I₹	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Ι .	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0

15-Minute Motor Vehicle Data

I-3990 SB Off-Ramp and Shopiere Rd

 Count Basics
 Page 5 of 11

 Start Date:
 Tuesday, May 21, 2024
 Weekday
 Schools in Session

 Total Number of Hours Counted: 6
 Non-Holiday
 No Special Events



15-Minute Motor Vehicle Data

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Peak Hour All Vehicle Volume Summary

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Hou	ırly		Fre	om No	orth			F	rom E	ast			Fr	om So	uth			Fr	om W	est		Total
Tim	e Period		1-3990	SB Of	f-Ramp)		Sł	nopiere	Rd			I-399	0 SB Or	-Ramp)		Sh	opiere	Rd		Hourly
Sta	rt Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume
AM	7:15 AM	225	2	10	0	237	0	169	19	0	188	0	0	0	0	0	117	318	0	0	435	860
MD	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	3:45 PM	337	1	24	0	362	0	153	25	0	178	0	0	0	0	0	98	321	0	0	419	959

PHF
0.86
0.90

15-Minute Heavy Vehicle Data

I-3990 SB Off-Ramp and Shopiere Rd

Page 9 of 11
Schools in Session
No Special Events Count Basics
Start Date: Tuesday, May 21, 2024
Total Number of Hours Counted: 6 Weekday Non-Holiday



15-Minute Heavy Vehicle Data

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	e Period				ff-Ramp				hopiere						n-Ramp				hopiere			15-Min	Hourly
	t Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals	Sum
Jtai	6:00 AM	0	0		_	0	0	-		0		0	0	0	_	0	6	1	_		_	10	3
	6:15 AM	2	0	+	_	2	0	0	_	0			0	0		0	6	0	_			8	3
	6:30 AM	0	0	0	0	0	0	4	1	0	5	0	0	0	0	0	3	0	0	0	3	8	4
	6:45 AM	2	0	_		2	0	_		0			0	0	_	0	2	0				7	4
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ak	8:00 AM	1	0			1	0	4		0	4	0	0	0		0	4	1				10	5
Pe	8:15 AM	0	0			0				0			0	0		0	2	2				14	
AM	8:30 AM	8	1		0	9	0	8	1	0	9	0	0	0	0	0	4	1	0	0	5	23	
٩	8:45 AM	1	0	+		1	0	3	_	0	3	0	0	0		0	6	0	_	_		10	
	9:00 AM	0	0			0		_		0	0		0	0		0	0	0				0	
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	10:15 AM	0	0			0		0		0	0		0	0		0	0	0				0	
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Midday	12:30 PM	0	0			0	_	_		0	0		0	0		0	0	0					
Ž	12:45 PM	0	0			0	0			0	0		0	0		0	0	0	_				
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	2:15 PM	0	0			0	0	Ö		0	0		0	0		0	0	0				0	
	2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2:45 PM	0	0			0	0	0		0	0		0	0		0	0	0					
	3:00 PM	4	0	+		4	0	3		0	4	0	0	0		0	0	1	_			9	4
	3:15 PM 3:30 PM	0 2	0			0	0	5 7		0	5 8	0	0	0	_	0	3 0	0 1				8 11	3:
	3:45 PM	0	0			0	0	7		0	7	0	0	0		0	5	1	_	_		13	24
	4:00 PM	0	0			0				0	0		0	0		0	0	1	_			1	1
	4:15 PM	1	0	+		1	0		_	0	1	0	0	0		0	1	3				6	2:
	4:30 PM	0	0			0	0	2		0	2	0	0	0		0	2	0				4	1
	4:45 PM	0	0	+		0			_	0	4	_	0	0		0	2	2		_		8	1
P	5:00 PM	0	0			0	0			0	2	0	0	0		0	1	0 1				3	1
Period	5:15 PM 5:30 PM	1	0	+		1	0	0	_	0	0	0	0	0		0	0 2	0		_		1 4	—
Pe.	5:45 PM	0	0			0	0	1	_	0	1	0	0	0		0	3	1	_			5	
eak	6:00 PM	0	0	+		0		0		0	0	0	0	0	_	0	0	0				0	
Pe	6:15 PM	0	0	_	_	0		_	_	0	0	_	0	0		0	0	0	_				
PM	6:30 PM	0	0													0	_					-	
	6:45 PM	0	0			0				0			0	0		0	0	0	_				
	7:00 PM	0			_				_	0		_				0		0	_	_			
	7:15 PM 7:30 PM	0	0		_			_	_	0						0		0	_				
	7:45 PM	0	0						_	0				0		0	0	0	_	_			
	8:00 PM	0	0					_	_							0		0		_			
	8:15 PM	0	0							0					_	0	_	0	_				
	8:30 PM	0	0							0				0		0	0	0					
	8:45 PM	0	0		_				_	0		_				0	_	0	_				
	9:00 PM	0	0													0		0	_				
	9:15 PM 9:30 PM	0	0	+		0			_	0		_		0		0	0	0		_			
	9:30 PM 9:45 PM	0	0							0				0	_	0		0					
Tota		29	2	_	_		_	_	_	0	_	0			_	0	_	17	_	_	_	_	
TOG	ais cir	29		1 0	U	31	U	90	11	U	101	U	U	U	U	U	03	1/	l U	0	<u> </u> 80	212	

Peak Hour Heavy Vehicle Volume Summary

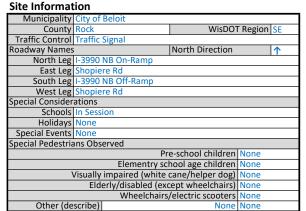
Pea	ak Hour H	ieavy	venic	ie vo	iume	Summ	ary															
				$\overline{\mathbf{V}}$					+					1					→			
Hou	rly		Fr	om No	orth			F	rom E	ast			Fr	om So	uth			Fr	om W	/est		Total
Time	me Period I-3990 SB Off-Ramp							SI	nopiere	e Rd			I-399	0 SB Or	n-Ramp)			Hourly			
Star	art Time Right Thru Left U-Tn Total				Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume	
AM	7:15 AM	7	1	0	0	8	0	24	4	0	28	0	0	0	0	0	13	2	0	0	15	51
MD	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
РМ	3:45 PM	1	0	0	0	1	0	10	0	0	10	0	0	0	0	0	8	5	0	0	13	24

Version 2011.J3 Page 1 of 11 Tuesday, May 21, 2024 Weekday No Special Events

MISCONSIN

Base Information, Observed (6) Hour and Estimated (24) Hour Volume Summaries

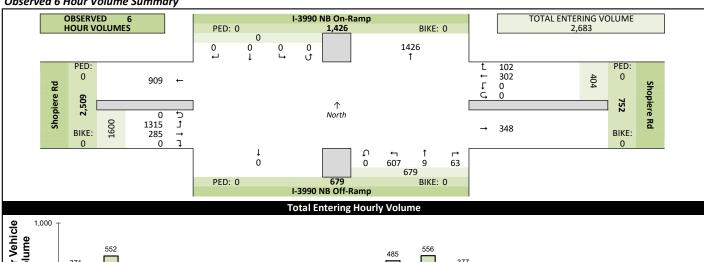
Intersection of: I-3990 NB On-Ramp and Shopiere Rd

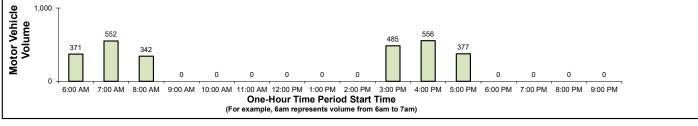


Count Information

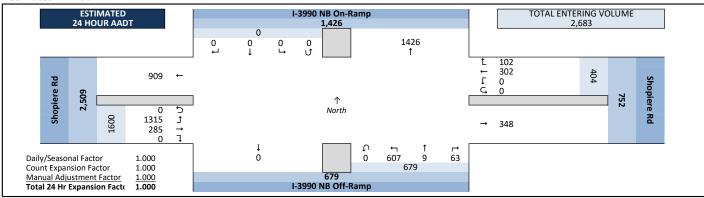
Count information			OF THE
Hrs Counted: 6:00 AM - 9:00 AM an	d 3:00 PM to 6:00 PM		
Count Dates		Weath	ner
AM Peak Period Tuesday, May 1		Clear	& Dry
Midday Peak Period Tuesday, May		Clear	& Dry
PM Peak Period Tuesday, May 1	21, 2024	Clear	& Dry
Calculated Peak Hours			
AM 7:00-8:00am MD		PM	4:15-5:15pm
Peak Hours Selected for Analysis			
AM 7:15-8:15am MD		PM	3:45-4:45pm
Daily/Seasonal Adjustment Group			
Count Expansion Group	(4) Rural Arterials & Collectors		
Daily/Seasonal Adjustment Factor	1.000 Count Ex	pansior	Factor 1.000
Company Name AECOM		Man	ual Adj. 1.000
Observers AM Peak Period		•	•
Midday Peak Period	MioVision		
PM Peak Period	MioVision		
Comments			•

Observed 6 Hour Volume Summary





Estimated 24 Hour AADT



Peak Hour Volume Summary

I-3990 NB On-Ramp and Shopiere Rd

 Count Basics
 Page 3 of 11

 Start Date:
 Tuesday, May 21, 2024
 Weekday
 Schools in Session

 Total Number of Hours Counted: 6
 Non-Holiday
 No Special Events



Peak Hour Volumes, Truck Percentages, and PHFs

Tuesday, May 21, 2024								-																		
Tu	esday, May 21, 2024		Ψ					←					个					→								
			Fro			Fre	om Ea	st			Fro	m Sou	uth			Fro	m We	est								
	AM Peak Hour		I-3990 NB On-Ramp						piere	Rd			I-3990	NB Off	-Ramp			Sho	piere	Rd						
l	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals				
l	7:15 AM	0	0	0	0	0	12	18	0	0	30	3	1	29	0	33	0	9	88	0	97	160				
Ιż	7:30 AM	0	0	0	0	0	5	16	0	0	21	0	0	41	0	41	0	3	98	0	101	163				
호	7:45 AM	0	0	0	0	0	6	10	0	0	16	2	0	37	0	39	0	9	73	0	82	137				
ž	8:00 AM	0	0	0	0	0	4	8	0	0	12	1	0	22	0	23	0	1	54	0	55	90				
Pe (Peak Hour Volume	0	0	0	0	0	27	52	0	0	79	6	1	129	0	136	0	22	313	0	335	550				
ĪŠ	Rounded Hourly Volume	0	0	0	0	0	25	50	0	0	75	5	0	130	0	135	0	20	315	0	335	545				
₹	% Single Unit Trucks	0.0	0.0	0.0	0.0	0.0	3.7	1.9	0.0	0.0	2.5	0.0	100.0	20.9	0.0	20.6	0.0	0.0	0.3	0.0	0.3	5.6				
l	% Heavy Trucks	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	0.0				
l	% Trucks (Total)	0.0	0.0	0.0	0.0	0.0	3.7	1.9	0.0	0.0	2.5	0.0	100.0	20.9	0.0	20.6	0.0	0.0	0.3	0.0	0.3	5.6				
	Peak Hour Factor (PHF)	0.00	0.00	0.00	0.00	0.00	0.56	0.72	0.00	0.00	0.66	0.50	0.25	0.79	0.00	0.83	0.00	0.61	0.80	0.00	0.83	0.84				

N/	N/A From North							Fre	← om Ea	st			Fro	↑ m Sou	ıth							
	MD Peak Hour		I-3990 NB On-Ramp					Sho	piere	Rd			I-3990	NB Off	-Ramp			Sho	opiere l	Rd		
<u>۔</u>	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
1 2	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ea	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
۱۵	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	Peak Hour Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Rounded Hourly Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
g	% Single Unit Trucks	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	0.0
ij	% Heavy Trucks	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	0.0
~	% Trucks (Total)	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	0.0
	Peak Hour Factor (PHF)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Tue	esday, May 21, 2024	From North					From East					↑ From South										
	PM Peak Hour		I-3990	NB On	-Ramp			Sho	piere	Rd			I-3990	NB Off	-Ramp			Sho	opiere	Rd		
	Start Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Totals
	3:45 PM	0	0	0	0	0	2	21	0	0	23	3	1	27	0	31	0	24	62	0	86	140
۱×	4:00 PM	0	0	0	0	0	6	17	0	0	23	3	0	26	0	29	0	17	59	0	76	128
١ĕ	4:15 PM	0	0	0	0	0	0	13	0	0	13	3	0	29	0	32	0	22	73	0	95	140
ΙŽ	4:30 PM	0	0	0	0	0	3	19	0	0	22	2	0	26	0	28	0	21	70	0	91	141
۱ ۾	Peak Hour Volume	0	0	0	0	0	11	70	0	0	81	11	1	108	0	120	0	84	264	0	348	549
ΙĒ	Rounded Hourly Volume	0	0	0	0	0	10	70	0	0	80	10	0	110	0	120	0	85	265	0	350	550
٦	% Single Unit Trucks	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.0	6.7	0.0	0.0	1.5	0.0	1.1	2.2
	% Heavy Trucks	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	0.0
	% Trucks (Total)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.0	6.7	0.0	0.0	1.5	0.0	1.1	2.2
	Peak Hour Factor (PHF)	0.00	0.00	0.00	0.00	0.00	0.46	0.83	0.00	0.00	0.88	0.92	0.25	0.93	0.00	0.94	0.00	0.87	0.90	0.00	0.92	0.97

Pe	destrians and Bicyclists	Cr	ossing 🖆	-	Cr	ossing		Cr	ossing	250	Cr	ossing 🛔	Age .	Total
	4 6	North App	oroach		East App	oroach	1	South App	oroach 🕶	-	West App	oroach 🕡		Ped &
	7 00	I-3990	NB On-Ramp		She	opiere Rd		I-3990	NB Off-Ramp		Sh	opiere Rd		Bike
	15-Minute Start Time	Pedestrian	Bicyclist	Total	Pedestrian	Bicyclist	Total	Pedestrian	Bicyclist	Total	Pedestrian	Bicyclist	Total	Volume
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
≩	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
<u>۱</u> ۲	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
l	Total	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
L	12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
§	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Ι ີ	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0
l	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
۱₹	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
l ~	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0

Intersection Traffic Volume Report

15-Minute Motor Vehicle Data

I-3990 NB On-Ramp and Shopiere Rd

Count Basics
Start Date: Tuesday, May 21, 2024
Total Number of Hours Counted: 6 Page 5 of 11
Schools in Session
No Special Events Weekday Non-Holiday



15-Minute Motor Vehicle Data

15-	Minute		Fr	↓ om No	orth			Fi	← rom E	ast			Fr	↑ om So	uth			Fre	→ om W	/est				
	e Period				n-Ramp				opier						f-Ramp				opier	1		15-Min	Hourly	l
Sta	rt Time	Right	Thru	Left		Total	Right		Left	_	Total	_	Thru	Left	U-Tn		_	Thru	Left	U-Tn	Total	Totals	Sum	PHF
	6:00 AM 6:15 AM	0	0	0	0	(0 6 0 4	9	0	_	10 13	0		18 12	0		0	-	50 50		52 54	80 80	371 383	_
	6:30 AM	0	0	0	0			14	0		21	2	2	30	0		0		49		54		463	
	6:45 AM	0	0	0	0	(6		0	_	18	0		21	0		0		58		62	102	517	0.79
-	7:00 AM	0	0	0	0	(12	0	_	16	2	0	20	0		0		51		54		552	_
Period	7:15 AM	0	0	0	0	C		18	0	_	30	3	1	29	0		0		88		97	160	550	
Pe	7:30 AM 7:45 AM	0	0	0	0	(-	16 10	0	_	21 16	2	0	41 37	0		0		98 73		101 82	163 137	471 405	_
Peak	8:00 AM	0	0	0	0		_	8	0	_	12	1	0	22	0		0		54		55	90	342	_
	8:15 AM	0	0	0	0	Č		8		_	12	0		21	0		0		41		48			1
₹	8:30 AM	0	0	0	0	C		12	0	0	16	1	1	21	0	23	0	14	44	_	58			
1	8:45 AM	0	0	0	0		_	11	0	_	13	0		20	0		0		32		40			
	9:00 AM 9:15 AM	0	0	0	0	(_	0	_		0	0		0	0		0		0		0	0		
	9:15 AM 9:30 AM	0	0	0	0	(_				0	0		0	0		0		0		0			<u> </u>
	9:45 AM	0	0	0	0						0	0		0	0				0		0			
	10:00 AM	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	10:15 AM	0	0	0	0	(0	0		0	0		0		0		0			<u> </u>
	10:30 AM	0	0	0	0		_	0		_	0	0		0	0		0		0		0			
ø	10:45 AM 11:00 AM	0	0	0	0	(-	0		_	0	0		0	0		0		0		0			-
Period	11:15 AM	0	0	0	0		-	0		_	0	0	0	0	0		0		0		0			
	11:30 AM	0	0	0	0		0		_	_	0	0		0	0		0	_	0		0			
Peak	11:45 AM	0	0	0	0	(_			_	0	0		0	0		_		0		0			
	12:00 PM	0	0	0	0	(_	-		_	0	0		0	0		0		0		0			
Midday	12:15 PM	0	0	0	0	(_			_	0	0		0	0		0	-	0		0			
ij	12:30 PM 12:45 PM	0	0	0	0	(_				0	0		0	0		0		0		0			
>	1:00 PM	0	0	0	0		_			_	0	0		0	0		0		0		0			
	1:15 PM	0	0	0	0	(0 0				0	0		0	0	0			0		0			
	1:30 PM	0	0	0	0	(0		_	0	0	0	0	0		0		0		0			
	1:45 PM	0	0	0		(_	_		_	0	0		0	0		_	_	0		0			
	2:00 PM 2:15 PM	0	0	0	0	(-	0			0	0		0	0		0		0		0			-
	2:30 PM	0	0	0	0						0	0		0	0		0		0		0	0		
	2:45 PM	0	0	0	0	(0 0			_	0	0		0	0	0	0	-	0		0	0		
	3:00 PM	0	0	0	0	(2	6		_	8	3	0	32	0		0		55		75		485	
	3:15 PM	0	0	0	0		_	11	0	_	12	6	0	13	0		0		50		66		495	
	3:30 PM	0	0	0	0	(13	0	_	20	5	0	26	0		0	-	58		79		538 549	_
	3:45 PM 4:00 PM	0	0	0	0	(_	21 17	0		23 23	3	1 0	27 26	0		0		62 59		86 76		556	
	4:15 PM	0	0	0	0	(0	_	13	3	0	29	0		0		73		95		560	
	4:30 PM	0	0	0	0	C		19	0	_	22	2		26	0		0		70		91	141	511	_
	4:45 PM	0	0	0	0	(11	0	_	14	6		46	0		0		57		80		453	_
σ	5:00 PM	0	0	0	0			19	0		23	2	0	39	0		0		47		68		377	0.7
Period	5:15 PM 5:30 PM	0	0	0	0	(-	14 14	0	_	17 17	5 6	0	17 22	0		0		36 30		52 38	91 83		-
	5:45 PM	0	0	0	0		-	10	0	_	14	8	0	12	0		0		30		37	71		1
Peak	6:00 PM	0	0	0	0			0		_	0	0		0	0		0		0		0			
Pe	6:15 PM	0	0	0	0	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Σ	6:30 PM	0	0		0	(0	0		0					0		0			
	6:45 PM 7:00 PM	0	0	0	0	(0			0	0		0					0		0			
	7:00 PM 7:15 PM	0	0	0	0	(_	0	0		0	_	_			0		0	_		-
	7:30 PM	0	0		0						0	0		0					0		0			!
	7:45 PM	0	0		0	(_			_	0	0		0	0				0		0			1
	8:00 PM	0	0	0		(0	0	0	0	0	0	0			0	0	0	0	0			
	8:15 PM	0	0	0	0	(_	0	0		0			_	_	0		0			
	8:30 PM	0	0		0	(_	0	0		0					0		0			<u> </u>
	8:45 PM 9:00 PM	0	0	0	0	(_			_	0	0		0	_	_			0		0			1
	9:00 PM 9:15 PM	0	0	0	0	(-		-		0	0		0	0				0		0			
	9:30 PM	0	0	0	0	(_			_	0	0		0	0		0		0		0			
	9:45 PM	0	0				_		_	_	0	0			_				0		0			
	3.43 F IVI						, ,																	

Peak Hour All Vehicle Volume Summary

				$\overline{\mathbf{v}}$					+					<u> </u>					→			
Ηοι	ırly		Fre	om No	orth			F	rom E	ast			Fr	om So	uth			Fr	om W	est		Total
Tim	e Period		1-3990	NB Or	n-Ramp)		Sł	opiere	Rd			1-3990	NB Of	f-Ramp)		Sh	opiere	Rd		Hourly
Star	rt Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume
AM	7:15 AM	0	0	0	0	0	27	52	0	0	79	6	1	129	0	136	0	22	313	0	335	550
MD	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	3:45 PM	0	0	0	0	0	11	70	0	0	81	11	1	108	0	120	0	84	264	0	348	549

PHF
0.84
0.97

Intersection Traffic Volume Report

15-Minute Heavy Vehicle Data

I-3990 NB On-Ramp and Shopiere Rd

Page 9 of 11
Schools in Session
No Special Events Count Basics
Start Date: Tuesday, May 21, 2024
Total Number of Hours Counted: 6 Weekday Non-Holiday



15-Minute Heavy Vehicle Data

	Viinute			om N					rom E					om Sc					→ rom W			
	e Period		1		n-Ramp				opiere		ı			_	ff-Ram	р			hopiere			15-Min
sta	rt Time	Right	Thru	Left	U-Tn	Total		Thru	Left	U-Tn	Total	Right		Left	U-Tn	Total	Right	Thru	Left	U-Tn		Totals
	6:00 AM	0				0			0		1	0			_		0	_		0		6
	6:15 AM	0				0			0		0				0		0			0		1
	6:30 AM 6:45 AM	0		_		0	•		0	_	0						0			0	_	
	7:00 AM	0			_	0		-	0		0				_		0			0		5
ğ	7:15 AM	0				0	0		0		1	0		_			0	0		0		11
Period	7:30 AM	0	_			0			0		0						0			0		8
g	7:45 AM	0	.			0			0	_	1	0			0		0			0		8
Peak	8:00 AM	0				0	0		0		0						0			0		4
Б	8:15 AM	0				0			0		0						0			0		10
Ž	8:30 AM	0				0			0		0	_					0		_	0		13
⋖	8:45 AM	0				0			0		0						0			0		2
	9:00 AM	0		_		0			0	_	0						0			0	0	0
	9:15 AM	0				0			0		0				_		0			0	0	0
	9:30 AM	0		_		0			0	_	0						0			0		0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10:00 AM	0				0			0		0						0			0		
	10:15 AM	0				0			0		0				_		0			0		0
	10:30 AM	0				0	•		0		0						0			0		
_	10:45 AM	0				0			0		0						0			0		0
ğ	11:00 AM	0		_		0			0	_	0						0		_	0		0
Period	11:15 AM	0				0			0		0						0	_		0		
	11:30 AM	0		_		0			0	_	0				_		0			0		0
Peak	11:45 AM	0			_	0		_	0		0						0	_		0		0
	12:00 PM	0				0			0		0						0			0		
Midday	12:15 PM 12:30 PM	0		_		0			0		0	_					0			0		0
ğ	12:45 PM	0				0			0		0						0			0		0
Ξ	1:00 PM	0				0			0		0						0			0		
	1:15 PM	0		_	_	0		-	0		0				_		0			0		0
	1:30 PM	0		_		0			0	_	0						0			0		0
	1:45 PM	0				0			0						_		0			0		
	2:00 PM	0	_	_	_	0	_		0	_	0	_		_	_		0	_	_	0	_	
	2:15 PM	0				0			0		0						0			0		0
	2:30 PM	0				0			0		0						0			0		0
	2:45 PM	0				0			0		0			_			0		_	0		0
	3:00 PM	0				0			0		0				_		0			0		6
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	5	0	5	0	0	0	0	0	5
	3:30 PM	0	0	0	0	0	0	2	0	0	2	0	0	5	0	5	0	0	1	0	1	8
	3:45 PM	0				0	_		0		0	_			0		0			0		8
	4:00 PM	0	0	0	0	0	0	0	0		0				0	0	0	0	1	0	1	1
	4:15 PM	0				0			0								0			0		3
	4:30 PM	0				0	_		0		0						0	_		0		0
	4:45 PM	0		_		0	•		0	_	0			_			0			0		4
~	5:00 PM	0				0			0		0						0			0		2
Period	5:15 PM	0		_		0			0	_	0			_			0			0		1
Je!	5:30 PM	0				0			0		0				0		0	_		0		1
Z	5:45 PM	0		_		0			0		0				0		0			0		2
Peak	6:00 PM	0		_	_	0		_	0		0				_		0	_		0		0
<u> </u>	6:15 PM	0		1		0			0		0	_		1	_		0			0		0
⋛	6:30 PM	0				0	_										_					
i	6:45 PM	0				0			0		0				_		0			0		0
	7:00 PM	0	_		_	0	•		0										_			
	7:15 PM	0				0												_	_			
	7:30 PM	0		_		0			0										_			
	7:45 PM	0				0			0								0			0		0
	8:00 PM	0		_		0			0					_					_			
	8:15 PM 8:30 PM	0				0			0									_		0		
	8:30 PM 8:45 PM	0				0			0													
	9:00 PM	0				0		_	0					_			0		_	0	_	
	9:15 PM	0				0			0								0			0		0
	9:15 PM 9:30 PM	0		_		0	•		0	_							_		_	0		
	9:30 PM 9:45 PM	0				0			0						_		0			_		
	J.75 F IVI	U	. 0	1 0	ı U	U	U	U	U	l Ü		0			l U	07	_	_				U

0 Peak Hour Heavy Vehicle Volume Summary

Totals

Pea	ak Hour H	ieavy	venic	ie vo	iume	Summ	ary															
				$\overline{\mathbf{V}}$					+					1					→			
Hou	rly		Fr	om No	orth			F	rom E	ast			Fr	om So	uth			Fr	om W	/est		Total
Time	e Period		1-3990	NB O	n-Ramp)		SI	hopiere	e Rd			I-3990	NB Of	f-Ramp)		Sł	opiere	Rd Rd		Hourly
Star	t Time	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Right	Thru	Left	U-Tn	Total	Volume
AM	7:15 AM	0	0	0	0	0	1	1	0	0	2	0	1	27	0	28	0	0	1	0	1	31
MD	12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
РМ	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	8	0	8	0	0	4	0	4	12

Appendix B: Existing-Year (Year 2024) Traffic Operations Analysis Worksheets

	7	1	1	W	ţ	لير	•	×	4	4	K	V
Movement	NBL	NBT	NBR	SBL	SBT	SBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations	*	1		*	1		*	1	7	*	•	
Traffic Volume (veh/h)	15	265	90	50	170	40	80	215	10	105	230	0
Future Volume (veh/h)	15	265	90	50	170	40	80	215	10	105	230	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	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 Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1723	1723	1723	1723	1723	1723	1709	1709	1709	1709	1709	0
Adj Flow Rate, veh/h	17	301	102	57	193	45	91	244	0	119	261	0
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
Percent Heavy Veh, %	2	2	2	2	2	2	3	3	3	3	3	0
Cap, veh/h	408	427	145	280	469	109	442	448		440	389	0
Arrive On Green	0.35	0.35	0.35	0.35	0.35	0.35	0.12	0.26	0.00	0.09	0.23	0.00
Sat Flow, veh/h	1052	1231	417	904	1351	315	1628	1709	1448	1628	1709	0
Grp Volume(v), veh/h	17	0	403	57	0	238	91	244	0	119	261	0
Grp Sat Flow(s),veh/h/ln	1052	0	1648	904	0	1666	1628	1709	1448	1628	1709	0
Q Serve(g_s), s	0.6	0.0	9.7	2.7	0.0	5.0	1.8	5.6	0.0	2.5	6.4	0.0
Cycle Q Clear(g_c), s	5.6	0.0	9.7	12.3	0.0	5.0	1.8	5.6	0.0	2.5	6.4	0.0
Prop In Lane	1.00		0.25	1.00		0.19	1.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	408	0	572	280	0	578	442	448		440	389	0
V/C Ratio(X)	0.04	0.00	0.70	0.20	0.00	0.41	0.21	0.54		0.27	0.67	0.00
Avail Cap(c_a), veh/h	962	0	1440	559	0	1092	781	1120		835	1120	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	13.5	0.0	12.9	18.3	0.0	11.4	10.8	14.5	0.0	11.9	16.1	0.0
Incr Delay (d2), s/veh	0.0	0.0	1.6	0.4	0.0	0.5	0.2	1.8	0.0	0.3	2.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.2	0.0	5.9	1.0	0.0	2.9	1.0	3.8	0.0	1.5	4.4	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	13.5	0.0	14.5	18.6	0.0	11.9	11.0	16.3	0.0	12.2	18.1	0.0
LnGrp LOS	В	0.0	В	В		В	В	В		В	В	
Approach Vol, veh/h		420			295			335			380	
Approach Delay, s/veh		14.5			13.2			14.9			16.3	
Approach LOS		В			В			В			В	
• •												
Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		20.9	9.5	15.4		20.9	7.9	17.0				
Change Period (Y+Rc), s		5.0	4.0	5.0		5.0	4.0	5.0				
Max Green Setting (Gmax), s		30.0	15.0	30.0		40.0	15.0	30.0				
Max Q Clear Time (g_c+l1), s		14.3	3.8	8.4		11.7	4.5	7.6				
Green Ext Time (p_c), s		1.5	0.1	1.5		3.0	0.2	2.3				
Intersection Summary												
HCM 7th Control Delay, s/veh			14.8									
HCM 7th LOS			В									
Notes												

Intersection	
Int Delay, s/veh 1.6	
	SBR
Lane Configurations 🎄 🦒 🅇 🏌	
· ·	15
Future Vol, veh/h 20 0 35 0 5 20 10 335 0 0 230 1	15
Conflicting Peds, #/hr 0 0 0 0 0 0 0 0 0	0
Sign Control Stop Stop Stop Stop Stop Stop Free Free Free Free Free Free	Free
RT Channelized None None None	lone
Storage Length 0	-
Veh in Median Storage, # - 0 0 0	-
Grade, % - 0 0 0	-
<u> </u>	90
Heavy Vehicles, % 2 2 2 17 17 17 2 2 2 2 2	2
	17
Maria Maria Allanda Al	
Major/Minor Minor2 Minor1 Major1 Major2	
Conflicting Flow All 661 658 264 - 667 372 272 0	0
Stage 1 264 264 394	-
Stage 2 397 394 272	-
Critical Hdwy 7.12 6.52 6.22 - 6.67 6.37 4.12	-
Critical Hdwy Stg 1 6.12 5.52 5.67	-
Critical Hdwy Stg 2 6.12 5.52 5.67	-
Follow-up Hdwy 3.518 4.018 3.318 - 4.153 3.453 2.218	-
Pot Cap-1 Maneuver 376 384 775 0 361 642 1291 - 0 0 -	-
Stage 1 741 690 - 0 580 0 0 -	-
Stage 2 628 605 - 0 658 0 0 -	-
Platoon blocked, %	-
Mov Cap-1 Maneuver 354 381 775 - 358 642 1291	-
Mov Cap-2 Maneuver 354 381 358	-
Stage 1 741 690 575	-
Stage 2 596 600 658	-
Approach EB WB NB SB	
HCM Control Delay, s/v 12.5 11.84 0.23 0	
HCM LOS B B	
Minor Lane/Major Mvmt NBL NBT EBLn1WBLn1 SBT SBR	
Capacity (veh/h) 1291 - 541 554	
HCM Lane V/C Ratio 0.009 - 0.113 0.05	
HCM Lane V/C Ratio 0.009 - 0.113 0.05	

Intersection												
Int Delay, s/veh	1.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations					4	7		^	7		4	
Traffic Vol, veh/h	0	0	0	25	10	15	0	325	30	10	310	10
Future Vol, veh/h	0	0	0	25	10	15	0	325	30	10	310	10
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	Yield	-	-	None
Storage Length	-	-	-	-	-	0	-	-	80	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	2	2	2	12	12	12	3	3	3	3	3	3
Mvmt Flow	0	0	0	28	11	17	0	365	34	11	348	11
Major/Minor				Minor1		<u> </u>	Major1			Major2		
Conflicting Flow All				736	747	365	-	0	0	365	0	0
Stage 1				365	365	-	-	-	-	-	-	-
Stage 2				371	382	-	-	-	-	-	-	-
Critical Hdwy				6.52	6.62	6.32	-	-	-	4.13	-	-
Critical Hdwy Stg 1				5.52	5.62	-	-	-	-	-	-	-
Critical Hdwy Stg 2				5.52	5.62	-	-	-	-	-	-	-
Follow-up Hdwy				3.608	4.108	3.408	-	-	-	2.227	-	-
Pot Cap-1 Maneuver				372	330	658	0	-	-	1188	-	-
Stage 1				681	606	-	0	-	-	-	-	-
Stage 2				677	596	-	0	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver				368	0	658	-	-	-	1188	-	-
Mov Cap-2 Maneuver				368	0	-	-	-	-	-	-	-
Stage 1				681	0	-	-	-	-	-	-	-
Stage 2				669	0	-	-	-	-	-	-	-
Approach				WB			NB			SB		
HCM Control Delay, s/v				14.36			0			0.24		
HCM LOS				В								
Minor Lane/Major Mvmt		NBT	NBRV	VBLn1V	VBLn2	SBL	SBT	SBR				
Capacity (veh/h)		-	-	368	658	54	-	-				
HCM Lane V/C Ratio		-	-	0.107	0.026	0.009	-	-				
HCM Control Delay (s/ve	eh)	-	-	16	10.6	8.1	0	-				
HCM Lane LOS		-	-	С	В	Α	Α	-				
HCM 95th %tile Q(veh)		-	-	0.4	0.1	0	-	-				

	٠	→	•	•	•	•	1	1	~	-	ļ	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	•	7	*	17		*	•	7	*	•	7
Traffic Volume (veh/h)	125	225	95	65	250	20	100	205	70	20	230	130
Future Volume (veh/h)	125	225	95	65	250	20	100	205	70	20	230	130
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	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 Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1762	1762	1723	1748	1748	1856	1748	1748	1709	1748	1748	1709
Adj Flow Rate, veh/h	144	259	68	75	287	23	115	236	50	23	264	93
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Percent Heavy Veh, %	2	2	2	3	3	3	3	3	3	3	3	3
Cap, veh/h	445	384	318	357	682	54	407	436	361	411	466	386
Arrive On Green	0.11	0.22	0.22	0.09	0.22	0.22	0.09	0.25	0.25	0.09	0.27	0.27
Sat Flow, veh/h	1678	1762	1460	1665	3116	248	1665	1748	1448	1665	1748	1448
Grp Volume(v), veh/h	144	259	68	75	152	158	115	236	50	23	264	93
Grp Sat Flow(s), veh/h/ln	1678	1762	1460	1665	1661	1703	1665	1748	1448	1665	1748	1448
Q Serve(g_s), s	3.6	7.6	2.2	1.8	4.4	4.5	2.8	6.6	1.5	0.5	7.3	2.8
Cycle Q Clear(g_c), s	3.6	7.6	2.2	1.8	4.4	4.5	2.8	6.6	1.5	0.5	7.3	2.8
Prop In Lane	1.00	7.0	1.00	1.00	7.7	0.15	1.00	0.0	1.00	1.00	7.0	1.00
Lane Grp Cap(c), veh/h	445	384	318	357	364	373	407	436	361	411	466	386
V/C Ratio(X)	0.32	0.67	0.21	0.21	0.42	0.42	0.28	0.54	0.14	0.06	0.57	0.24
Avail Cap(c_a), veh/h	1162	939	778	1097	885	908	1175	931	772	1150	931	772
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	14.3	20.2	18.1	14.7	18.9	18.9	13.6	18.3	16.4	12.9	17.8	16.2
Incr Delay (d2), s/veh	0.4	3.5	0.6	0.3	0.8	0.8	0.4	1.0	0.2	0.1	1.9	0.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	2.2	5.7	1.3	1.1	2.9	3.0	1.7	4.5	0.8	0.3	5.1	1.6
Unsig. Movement Delay, s/veh		0.7	1.0	1.1	2.0	0.0	1.7	7.0	0.0	0.0	0.1	1.0
LnGrp Delay(d), s/veh	14.7	23.7	18.6	15.0	19.7	19.7	14.0	19.4	16.6	13.0	19.7	16.7
LnGrp LOS	В	C	В	В	В	В	В	В	В	В	В	В
Approach Vol, veh/h		471			385			401			380	
Approach Delay, s/veh		20.2			18.8			17.5			18.6	
Approach LOS		20.2 C			10.0 B						10.0 B	
• •								В			Ь	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	10.0	17.3	9.0	20.0	9.9	17.3	10.0	19.0				
Change Period (Y+Rc), s	5.0	5.0	4.0	5.0	4.0	5.0	5.0	5.0				
Max Green Setting (Gmax), s	30.0	30.0	31.0	30.0	30.0	30.0	30.0	30.0				
Max Q Clear Time (g_c+l1), s	3.8	9.6	4.8	9.3	5.6	6.5	2.5	8.6				
Green Ext Time (p_c), s	0.2	2.7	0.3	2.9	0.4	1.7	0.0	1.4				
Intersection Summary												
HCM 7th Control Delay, s/veh			18.8									
HCM 7th LOS			В									

Intersection						
Int Delay, s/veh	2.3					
		EDD	NDI	NDT	ODT	000
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	7	7		44	1	
Traffic Vol, veh/h	80	35	25	340	315	40
Future Vol, veh/h	80	35	25	340	315	40
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	50	-	-	-	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	2	2	3	3	4	4
Mvmt Flow	92	40	29	391	362	46
NA = : = : /NA: = = :	N 4: O		4-14		4-10	
	Minor2		Major1		/lajor2	
Conflicting Flow All	638	204	408	0	-	0
Stage 1	385	-	-	-	-	-
Stage 2	253	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.16	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.23	-	-	-
Pot Cap-1 Maneuver	409	803	1140	-	-	-
Stage 1	657	-	-	-	-	-
Stage 2	766	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	398	803	1140	-	-	-
Mov Cap-2 Maneuver	398	-	-	_	_	_
Stage 1	639	-	-	_	-	-
Stage 2	766	_	_	_	_	_
5 tago 2	, 00					
Approach	EB		NB		SB	
HCM Control Delay, s/	/v14.62		0.75		0	
HCM LOS	В					
Minor Lane/Major Mvn	nt	NBL	NRT	EBLn1 E	FRI n2	SBT
	iit					ומט
Capacity (veh/h)		247	-		803	-
HCM Cantral Dalay (a	/ a la \	0.025		0.231	0.05	-
HCM Control Delay (s	ven)	8.2	0.2	16.8	9.7	-
HCM Lane LOS	. \	A	Α	С	A	-
HCM 95th %tile Q(veh	1)	0.1	-	0.9	0.2	-

Intersection						
Int Delay, s/veh	1.6					
	EBL	EDD	NDI	NDT	CDT	CDD
Movement		EBR	NBL	NBT	SBT	SBR
Lane Configurations	7	7		41	† ‡	00
Traffic Vol, veh/h	15	50	55	360	300	20
Future Vol, veh/h	15	50	55	360	300	20
Conflicting Peds, #/hr	0	0	0	_ 0	_ 0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	75	-	-	-	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	2	2	3	3	4	4
Mvmt Flow	17	57	63	409	341	23
Major/Minor N	Minor2	N	Major1		Major2	
			Major1			^
Conflicting Flow All	682	182	364	0	-	0
Stage 1	352	-	-	-	-	-
Stage 2	330	-	4.40	_	-	-
Critical Hdwy	6.84	6.94	4.16	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.23	-	-	-
Pot Cap-1 Maneuver	384	830	1184	-	-	-
Stage 1	683	-	-	-	-	-
Stage 2	701	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	361	830	1184	-	-	-
Mov Cap-2 Maneuver	361	-	-	-	-	-
Stage 1	642	-	-	-	-	-
Stage 2	701	-	-	-	-	-
Annanah	ED		ND		CD	
Approach	EB		NB		SB	
HCM Control Delay, s/v			1.41		0	
HCM LOS	В					
Minor Lane/Major Mvm	t	NBL	NBT	EBLn1 I	FBI n2	SBT
Capacity (veh/h)		477	-		830	-
HCM Lane V/C Ratio		0.053		0.047		_
HCM Control Delay (s/v	/eh\	8.2	0.4	15.5	9.7	_
HCM Lane LOS	veri)	Α	Α	13.5 C	9.7 A	_
HCM 95th %tile Q(veh)		0.2	- -	0.1	0.2	-
Holvi sour wille Q(ven)		U.Z	-	0.1	U.Z	-

Intersection						
Int Delay, s/veh	4.6					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	VVDL	WDK	11D1	NON	JDL	41
Traffic Vol, veh/h	100	95	310	90	80	235
Future Vol, veh/h	100	95	310	90	80	235
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Stop	-		-	None
Storage Length	0	400	_	-	_	-
Veh in Median Storage	-	-	0	_	_	0
Grade, %	0	-	0	-	_	0
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	13	13	2	2	6	6
Mvmt Flow	115	109	356	103	92	270
Major/Minor N	linar1	N	Aniar1		//oior?	
	Minor1		Major1		Major2	
Conflicting Flow All	727	230	0	0	460	0
Stage 1	408 319	-	-	-	-	-
Stage 2 Critical Hdwy	7.06	7.16	-	-	4.22	
	6.06	7.10	-	-	4.22	-
Critical Hdwy Stg 1	6.06	-	-	-	-	
Critical Hdwy Stg 2 Follow-up Hdwy	3.63	3.43	-	-	2.26	-
Pot Cap-1 Maneuver	336	740	-	<u>-</u>	1070	-
Stage 1	609	740	_	-	1070	-
Stage 2	678		-	-	_	_
Platoon blocked, %	070	_		-	_	_
Mov Cap-1 Maneuver	305	740	-	-	1070	_
Mov Cap-1 Maneuver	305	740	_	_	1070	_
Stage 1	609	_	-	-	_	-
Stage 2	615	_		-	_	-
Stage 2	013		-		-	-
Approach	WB		NB		SB	
HCM Control Delay, s/\			0		2.56	
HCM LOS	С					
Minor Lane/Major Mvm	t	NBT	NBRV	VBLn1V	VBLn2	SBL
Capacity (veh/h)		-	-		740	914
HCM Lane V/C Ratio		_		0.377		
HCM Control Delay (s/v	veh)	-	-	23.8	10.7	8.7
HCM Lane LOS	<i></i> ,	-	_	C	В	A
HCM 95th %tile Q(veh)		-	-	1.7	0.5	0.3

Intersection							J
Int Delay, s/veh	8.1						4
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	T	LDI\	NOL	414	1	JUIN **	
Traffic Vol, veh/h	170	130	150	250	180	175	
Future Vol, veh/h	170	130	150	250	180	175	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	-	None	_	None	_	None	
Storage Length	0	280	-	-	_	150	
Veh in Median Storage,	, # 0	-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	89	89	89	89	89	89	
Heavy Vehicles, %	11	11	5	5	5	5	
Mvmt Flow	191	146	169	281	202	197	
Major/Minor N	/linor2	N	Major1	N	Major2		ľ
Conflicting Flow All	680	101	399	0	-	0	
Stage 1	202	-	-	-	-	-	
Stage 2	478	_	_	_	_	-	
Critical Hdwy	7.02	7.12	4.2	-	_	_	
Critical Hdwy Stg 1	6.02	-	-	_	_	-	
Critical Hdwy Stg 2	6.02	-	-	-	_	_	
Follow-up Hdwy	3.61	3.41	2.25	_	_	_	
Pot Cap-1 Maneuver	365	906	1135	-	_	-	
Stage 1	786	-	-	-	-	-	
Stage 2	565	-	-	-	-	-	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuver	307	906	1135	-	-	-	
Mov Cap-2 Maneuver	307	-	-	-	-	-	
Stage 1	659	-	-	-	-	-	
Stage 2	565	-	-	-	-	-	
, and the second							
Approach	EB		NB		SB		
HCM Control Delay, s/v			3.67		0		
HCM LOS	C		3.07		U		
TIOW LOS	U						
Minor Lane/Major Mvm	t	NBL	NBT	EBLn1 E		SBT	
Capacity (veh/h)		1047	-	00.	906	-	
HCM Lane V/C Ratio		0.148		0.623		-	
HCM Control Delay (s/v	/eh)	8.7	0.6	34.3	9.7	-	
HCM Lane LOS		Α	Α	D	Α	-	
HCM 95th %tile Q(veh)		0.5	_	3.9	0.6	_	

Intersection												
Int Delay, s/veh	0.4											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	LDI	T T	VVDL	וטייי	אוטוע	NDL	↑	T T)	↑	ODIN
Traffic Vol, veh/h	5	0	225	0	0	0	0	325	115	20	165	0
Future Vol, veh/h	5	0	225	0	0	0	0	325	115	20	165	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	Free	-	-	None	-	-	Yield	-	-	None
Storage Length	0	-	220	-	-	-	-	-	0	800	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	86	86	86	92	92	92	86	86	86	86	86	86
Heavy Vehicles, %	3	3	3	2	2	2	3	3	3	15	15	15
Mvmt Flow	6	0	262	0	0	0	0	378	134	23	192	0
Major/Minor	Minor2					N	//ajor1			Major2		
Conflicting Flow All	616	-	-				-	0	0	378	0	0
Stage 1	238	-	-				-	-	-	-	-	-
Stage 2	378	-	-				-	-	-	-	-	-
Critical Hdwy	6.43	-	-				-	-	_	4.25	-	-
Critical Hdwy Stg 1	5.43	-	-				-	-	-	-	-	-
Critical Hdwy Stg 2	5.43	-	-				-	-	-	-	-	-
Follow-up Hdwy	3.527	-	-				-	-	-	2.335	-	-
Pot Cap-1 Maneuver	452	0	0				0	-	-	1113	-	0
Stage 1	799	0	0				0	-	-	-	-	0
Stage 2	691	0	0				0	-	-	-	-	0
Platoon blocked, %								-	-		-	
Mov Cap-1 Maneuver	443	0	-				-	-	-	1113	-	-
Mov Cap-2 Maneuver	443	0	-				-	-	-	-	-	-
Stage 1	799	0	-				-	-	-	-	-	-
Stage 2	676	0	-				-	-	-	-	-	-
Approach	EB						NB			SB		
HCM Control Delay, s/	v13.24						0			0.9		
HCM LOS	В											
Minor Lane/Major Mvm	nt	NBT	NBR I	EBLn1 l	EBLn2	SBL	SBT					
Capacity (veh/h)		-	-			1113	-					
HCM Lane V/C Ratio		-	-	0.013		0.021	-					
HCM Control Delay (s/	veh)	-	-		0	8.3	-					
HCM Lane LOS	,	-	-	В	Α	Α	-					
HCM 95th %tile Q(veh))	-	-	0	-	0.1	-					

Intersection												
Int Delay, s/veh	14.9											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations				7		7	7	↑			↑	7
Traffic Vol, veh/h	0	0	0	130	0	5	310	20	0	0	55	30
Future Vol, veh/h	0	0	0	130	0	5	310	20	0	0	55	30
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	Stop	-	-	None	-	-	Yield
Storage Length	-	-	-	0	-	150	800	-	-	-	-	420
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	84	84	84	84	84	84	84	84	84	84	84	84
Heavy Vehicles, %	2	2	2	21	21	21	2	2	2	3	3	3
Mvmt Flow	0	0	0	155	0	6	369	24	0	0	65	36
Major/Minor			ı	Minor1		ı	Major1		N	/lajor2		
Conflicting Flow All				827	-	24	65	0	-	-	-	0
Stage 1				762	-	-	-	-	-	-	-	-
Stage 2				65	-	-	-	-	-	-	-	-
Critical Hdwy				6.61	-	6.41	4.12	-	-	-	-	-
Critical Hdwy Stg 1				5.61	-	-	-	-	-	-	-	-
Critical Hdwy Stg 2				5.61	-	-	-	-	-	-	-	-
Follow-up Hdwy				3.689	-	3.489	2.218	-	-	-	-	-
Pot Cap-1 Maneuver				317	0	1000	1536	-	0	0	-	-
Stage 1				429	0	-	-	-	0	0	-	-
Stage 2				911	0	-	-	-	0	0	-	-
Platoon blocked, %								-			-	-
Mov Cap-1 Maneuver				241	0	1000	1536	-	-	-	-	-
Mov Cap-2 Maneuver				241	0	-	-	-	-	-	-	-
Stage 1				326	0	-	-	-	-	-	-	-
Stage 2				911	0	-	-	_	-	-	-	_
Approach				WB			NB			SB		
HCM Control Delay, s/v				42.16			7.59			0		
HCM LOS				Е								
Minor Lane/Major Mvmt		NBL	NBTV	VBLn1V	VBLn2	SBT	SBR					
Capacity (veh/h)		1536	-	241	1000	-	-					
HCM Lane V/C Ratio		0.24	-	0.643		-	-					
HCM Control Delay (s/v	eh)	8.1	-	43.4	8.6	-	-					
HCM Lane LOS		Α	-	Е	Α	-	-					
HCM 95th %tile Q(veh)		0.9	-	3.9	0	-	-					
· · ·												

	4	1	1	4	ţ	لير	•	×	4	4	K	V
Movement	NBL	NBT	NBR	SBL	SBT	SBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations	*	1.		*	1		*	1	7	*	1	
Traffic Volume (veh/h)	30	255	135	50	360	75	55	280	30	135	175	0
Future Volume (veh/h)	30	255	135	50	360	75	55	280	30	135	175	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	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 Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1723	1723	1723	1723	1723	1723	1723	1723	1723	1723	1723	0
Adj Flow Rate, veh/h	32	271	144	53	383	80	59	298	0	144	186	0
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
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	0
Cap, veh/h	260	397	211	287	518	108	474	435		392	442	0
Arrive On Green	0.38	0.38	0.38	0.38	0.38	0.38	0.09	0.25	0.00	0.09	0.26	0.00
Sat Flow, veh/h	856	1059	563	895	1382	289	1641	1723	1460	1641	1723	0
Grp Volume(v), veh/h	32	0	415	53	0	463	59	298	0	144	186	0
Grp Sat Flow(s),veh/h/ln	856	0	1621	895	0	1671	1641	1723	1460	1641	1723	0
Q Serve(g_s), s	1.7	0.0	10.8	2.7	0.0	12.0	1.2	7.8	0.0	3.2	4.5	0.0
Cycle Q Clear(g_c), s	13.7	0.0	10.8	13.4	0.0	12.0	1.2	7.8	0.0	3.2	4.5	0.0
Prop In Lane	1.00		0.35	1.00		0.17	1.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	260	0	608	287	0	627	474	435		392	442	0
V/C Ratio(X)	0.12	0.00	0.68	0.18	0.00	0.74	0.12	0.69		0.37	0.42	0.00
Avail Cap(c_a), veh/h	621	0	1294	487	0	1000	818	1031		730	1031	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	19.5	0.0	13.2	18.8	0.0	13.5	11.5	16.9	0.0	12.5	15.5	0.0
Incr Delay (d2), s/veh	0.2	0.0	1.4	0.3	0.0	1.7	0.1	3.3	0.0	0.6	0.6	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.6	0.0	6.5	1.0	0.0	7.5	0.7	5.7	0.0	1.9	3.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	19.7	0.0	14.5	19.1	0.0	15.3	11.6	20.2	0.0	13.1	16.2	0.0
LnGrp LOS	В	0.0	В	В		В	В	C		В	В	
Approach Vol, veh/h		447			516			357			330	
Approach Delay, s/veh		14.9			15.7			18.8			14.8	
Approach LOS		В			В			В			В	
• •												
Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		23.8	8.5	17.9		23.8	8.7	17.7				
Change Period (Y+Rc), s		5.0	4.0	5.0		5.0	4.0	5.0				
Max Green Setting (Gmax), s		30.0	15.0	30.0		40.0	15.0	30.0				
Max Q Clear Time (g_c+l1), s		15.4	3.2	6.5		15.7	5.2	9.8				
Green Ext Time (p_c), s		3.0	0.1	1.1		3.1	0.2	2.8				
Intersection Summary												
HCM 7th Control Delay, s/veh			16.0									
HCM 7th LOS			В									
Notes												

Intersection												
Int Delay, s/veh	2.8											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			1.		*	•			1.	
Traffic Vol, veh/h	35	0	35	0	25	50	20	290	0	0	455	40
Future Vol, veh/h	35	0	35	0	25	50	20	290	0	0	455	40
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
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, %	3	3	3	4	4	4	2	2	2	2	2	2
Mvmt Flow	38	0	38	0	27	54	22	315	0	0	495	43
Major/Minor	Minor2			Minor1			Major1		N	Major2		
Conflicting Flow All	889	875	516	-	897	315	538	0	-		-	0
Stage 1	516	516	-	-	359	-	-	-	-	-	_	-
Stage 2	372	359	-	-	538	-	-	-	-	-	-	-
Critical Hdwy	7.13	6.53	6.23	-	6.54	6.24	4.12	-	-	-	-	-
Critical Hdwy Stg 1	6.13	5.53	-	-	5.54	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.13	5.53	-	-	5.54	_	-	-	-	-	-	-
Follow-up Hdwy	3.527	4.027	3.327	-	4.036	3.336	2.218	-	-	-	-	-
Pot Cap-1 Maneuver	263	287	557	0	277	721	1030	-	0	0	-	-
Stage 1	540	532	-	0	624	-	-	-	0	0	-	-
Stage 2	646	626	-	0	519	-	-	-	0	0	-	-
Platoon blocked, %								-			-	-
Mov Cap-1 Maneuver	215	281	557	-	271	721	1030	-	-	-	-	-
Mov Cap-2 Maneuver	215	281	-	-	271	-	-	-	-	-	-	-
Stage 1	540	532	-	-	611	-	-	-	-	-	-	-
Stage 2	559	612	-	-	519	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s/	v20.36			14.39			0.55			0		
HCM LOS	С			В								
Minor Lane/Major Mvm	nt	NBL	NBT	EBLn1V	VBLn1	SBT	SBR					
Capacity (veh/h)		1030	-	310	464	_	-					
HCM Lane V/C Ratio		0.021	_	0.246		-	_					
HCM Control Delay (s/	veh)	8.6	_	20.4	14.4	-	-					
HCM Lane LOS	- 1	A	-	С	В	-	-					
HCM 95th %tile Q(veh)	0.1	-	0.9	0.6	_	-					
	,											

Intersection												
Int Delay, s/veh	1.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations					4	7		1	7		4	
Traffic Vol, veh/h	0	0	0	10	10	35	5	415	50	30	300	55
Future Vol, veh/h	0	0	0	10	10	35	5	415	50	30	300	55
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	Yield	-	-	None
Storage Length	-	-	-	-	-	0	-	-	80	-	-	-
Veh in Median Storage, #	‡ -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	98	98	98	98	98	98	98	98	98
Heavy Vehicles, %	2	2	2	4	4	4	2	2	2	2	2	2
Mvmt Flow	0	0	0	10	10	36	5	423	51	31	306	56
Major/Minor				Minor1			Major1		ı	Major2		
Conflicting Flow All				801	857	423	362	0	0	423	0	0
Stage 1				434	434	-	-	-	-	-	-	-
Stage 2				367	423	-	-	-	-	-	-	-
Critical Hdwy				6.44	6.54	6.24	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1				5.44	5.54	-	-	-	-	-	-	-
Critical Hdwy Stg 2				5.44	5.54	-	-	-	-	-	-	-
Follow-up Hdwy				3.536	4.036	3.336	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver				351	293	626	1196	-	-	1136	-	-
Stage 1				649	578	-	-	-	-	-	-	-
Stage 2				696	584	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver				337	0	626	1196	-	-	1136	-	-
Mov Cap-2 Maneuver				337	0	-	-	-	-	-	-	-
Stage 1				645	0	-	-	-	-	-	-	-
Stage 2				672	0	-	-	-	-	-	-	-
Approach				WB			NB			SB		
HCM Control Delay, s/v				13.01			0.09			0.64		
HCM LOS				В								
Minor Lane/Major Mvmt		NBL	NBT	NBRV	VBLn1V	VBLn2	SBL	SBT	SBR			
Capacity (veh/h)		1196	-	-	337	626	136	-	-			
HCM Lane V/C Ratio		0.004	-	-	0.061	0.057	0.027	-	-			
HCM Control Delay (s/ve		8	-	-	16.4	11.1	8.3	0	-			
HCM Lane LOS		Α	-	-	С	В	Α	Α	-			
HCM 95th %tile Q(veh)		0	-	-	0.2	0.2	0.1	-	-			

	١	-	•	1	•	•	4	↑	~	-	ţ	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	^	7	7	1		*	^	7	*	*	7
Traffic Volume (veh/h)	200	445	160	100	340	35	170	255	145	20	220	235
Future Volume (veh/h)	200	445	160	100	340	35	170	255	145	20	220	235
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	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 Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1762	1762	1723	1762	1762	1870	1762	1762	1723	1762	1762	1723
Adj Flow Rate, veh/h	211	468	104	105	358	37	179	268	95	21	232	153
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
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	485	570	472	286	892	92	377	448	371	333	369	306
Arrive On Green	0.12	0.32	0.32	0.07	0.29	0.29	0.11	0.25	0.25	0.07	0.21	0.21
Sat Flow, veh/h	1678	1762	1460	1678	3065	315	1678	1762	1460	1678	1762	1460
Grp Volume(v), veh/h	211	468	104	105	195	200	179	268	95	21	232	153
Grp Sat Flow(s), veh/h/ln	1678	1762	1460	1678	1674	1705	1678	1762	1460	1678	1762	1460
Q Serve(g_s), s	6.0	17.5	3.7	3.0	6.7	6.8	5.8	9.6	3.7	0.7	8.6	6.6
Cycle Q Clear(g_c), s	6.0	17.5	3.7	3.0	6.7	6.8	5.8	9.6	3.7	0.7	8.6	6.6
Prop In Lane	1.00		1.00	1.00	0.7	0.18	1.00	0.0	1.00	1.00	0.0	1.00
Lane Grp Cap(c), veh/h	485	570	472	286	487	497	377	448	371	333	369	306
V/C Ratio(X)	0.44	0.82	0.22	0.37	0.40	0.40	0.47	0.60	0.26	0.06	0.63	0.50
Avail Cap(c_a), veh/h	986	738	611	865	701	714	887	738	611	918	738	611
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	14.5	22.3	17.7	17.3	20.4	20.4	18.8	23.5	21.3	19.2	25.8	25.0
Incr Delay (d2), s/veh	0.6	7.2	0.4	0.8	0.5	0.5	0.9	1.3	0.4	0.1	3.0	2.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	3.8	12.3	2.2	2.0	4.5	4.6	3.9	7.0	2.2	0.4	6.6	4.2
Unsig. Movement Delay, s/veh		12.0		2.0	1.0	1.0	0.0	7.0		0.1	0.0	1.2
LnGrp Delay(d), s/veh	15.1	29.6	18.1	18.1	20.9	20.9	19.8	24.8	21.7	19.2	28.8	27.2
LnGrp LOS	В	C	В	В	C	C	В	C C	C C	В	C	C
Approach Vol, veh/h		783			500			542			406	
Approach Delay, s/veh		24.1			20.3			22.6			27.7	
Approach LOS		24.1 C			20.3 C			22.0 C			21.1 C	
Apploach LOS		C			C			C			C	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	10.3	28.2	13.2	20.0	12.6	25.9	10.0	23.2				
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	4.0	5.0	5.0	5.0				
Max Green Setting (Gmax), s	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0				
Max Q Clear Time (g_c+l1), s	5.0	19.5	7.8	10.6	8.0	8.8	2.7	11.6				
Green Ext Time (p_c), s	0.2	3.6	0.5	2.9	0.6	2.2	0.0	1.7				
Intersection Summary												
HCM 7th Control Delay, s/veh			23.6									
HCM 7th LOS			С									

Intersection							
Int Delay, s/veh	2.2						
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	7	7		44	17		
Traffic Vol, veh/h	60	40	55	385	460	70	
Future Vol, veh/h	60	40	55	385	460	70	
Conflicting Peds, #/hr	0	0	_ 0	0	0	_ 0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	-	None	-	None	-	None	
Storage Length	0	50	-	-	-	-	
Veh in Median Storago		-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	95	95	95	95	95	95	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	63	42	58	405	484	74	
Major/Minor	Minor2	N	/lajor1	N	Major2		
Conflicting Flow All	839	279	558	0	viajoi 2 -	0	
Stage 1	521	219	556	-		-	
Stage 2	318	_	-	_	_	_	
Critical Hdwy	6.84	6.94	4.14	-	-	-	
Critical Hdwy Stg 1	5.84	0.94	4.14	_	_	_	
	5.84	-	-	-		-	
Critical Hdwy Stg 2 Follow-up Hdwy	3.52	3.32	2.22	-	-	-	
Pot Cap-1 Maneuver	304	718	1009	-		-	
•	561	110	1009	_	_		
Stage 1	710	-	-	-	_	-	
Stage 2	710	-	-	-			
Platoon blocked, %	285	710	1000	-	-	-	
Mov Cap-1 Maneuver		718	1009	-		-	
Mov Cap-2 Maneuver	285	-	-	-	-	-	
Stage 1	524	-	-	-	-	-	
Stage 2	710	-	-	-	-	-	
Approach	EB		NB		SB		
HCM Control Delay, s	/v16.86		1.48		0		
HCM LOS	С						
NA: I (NA . : NA		NDI	NDT		-DI .C	ODT	000
Minor Lane/Major Mvr	nt	NBL	NRI	EBLn1 I		SBT	SBR
Capacity (veh/h)		450	-	285	718	-	-
HCM Lane V/C Ratio		0.057		0.222		-	-
HCM Control Delay (s.	/veh)	8.8	0.4	21.2	10.3	-	-
HCM Lane LOS		Α	Α	С	В	-	-
HCM 95th %tile Q(veh	1)	0.2	-	0.8	0.2	-	-

Intersection Int Delay, s/veh	2						
Movement	EBL	EBR	NBL	NBT	SBT	SBR	J
Lane Configurations	T T	EBR	NDL	41	↑ \$	אומט	
Traffic Vol, veh/h	20	70	80	4 T 365	460	10	
Future Vol, veh/h	20	70	80	365	460	10	
Conflicting Peds, #/h		0	0	0	400	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	Siop -		-		-	None	
Storage Length	0	75	-	None	-	None	
		-		0	0	-	
Veh in Median Storag	ge,# 0	-	-	0	0	-	
Grade, %			05				
Peak Hour Factor	95	95	95	95	95	95	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	21	74	84	384	484	11	
Major/Minor	Minor2	N	Major1	N	Major2		
Conflicting Flow All	850	247	495	0		0	
Stage 1	489		-	-	_	-	
Stage 2	361	_	_	_	_	_	
Critical Hdwy	6.84	6.94	4.14	_	_	_	
Critical Hdwy Stg 1	5.84	-	7.17	_	_	_	
Critical Hdwy Stg 2	5.84	_	_	_	_	_	
Follow-up Hdwy	3.52	3.32	2.22	_	_	_	
Pot Cap-1 Maneuver		753	1065	_	_	_	
Stage 1	582	-	1000	_	_	_	
Stage 1	676	_	_	-	_	_	
Platoon blocked, %	070	_	_	_	_	-	
	r 979	752	1065	_		-	
Mov Cap-1 Maneuve		753		-	-		
Mov Cap-2 Maneuve		-	-	-	-	-	
Stage 1	530	-	-	-	-	-	
Stage 2	676	-	-	-	-	-	
Approach	EB		NB		SB		
HCM Control Delay,	s/v 12.3		2		0		
HCM LOS	В						
Minor Lane/Major Mv	/mt	NBL	NRT	EBLn1 E	FBI n2	SBT	
		647	וטו	273	753	051	
			_			-	
Capacity (veh/h)		በ በ7በ				-	
Capacity (veh/h) HCM Lane V/C Ratio		0.079		0.077			
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (8.7	0.5	19.3	10.3	-	
Capacity (veh/h) HCM Lane V/C Ratio	s/veh)						

Intersection							
Int Delay, s/veh	4.6						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	VVDL	WDR	↑ ↑	אטוו	SDL	41	
Traffic Vol, veh/h	140	55	265	130	70	4 T 320	
Future Vol, veh/h	140	55	265	130	70	320	
Conflicting Peds, #/hr	0	0	203	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	Stop -	Stop	-	None	-	None	
Storage Length	0	400	-	None	_	None	
Veh in Median Storage		400	0		_	0	
Grade, %	;, # 0 0	_	0	_	_	0	
Peak Hour Factor	92	92	92	92	92	92	
	4	4	2	2	2	2	
Heavy Vehicles, %							
Mvmt Flow	152	60	288	141	76	348	
Major/Minor I	Minor1	N	/lajor1	N	Major2		
Conflicting Flow All	685	215	0	0	429	0	
Stage 1	359	-	-	-	-	-	
Stage 2	326	_	_	_	_	_	
Critical Hdwy	6.88	6.98	_	_	4.14	_	
Critical Hdwy Stg 1	5.88	-	_	_	_	_	
Critical Hdwy Stg 2	5.88	_	_	_	_	_	
Follow-up Hdwy	3.54	3.34	_	_	2.22	_	
Pot Cap-1 Maneuver	378	784	_	_	1127	_	
Stage 1	672	-	_	_	-	_	
Stage 2	698	_	_	_	_	_	
Platoon blocked, %	030	_	_	_	_	_	
Mov Cap-1 Maneuver	349	784	_	_	1127	-	
Mov Cap-1 Maneuver	349	704		-	-	_	
	672	-	-	-			
Stage 1		-	-	-	-	-	
Stage 2	646	-	-	-	-	-	
Approach	WB		NB		SB		
HCM Control Delay, s/v	v19.34		0		1.87		
HCM LOS	С						
Minor Lane/Major Mvm	nt	NBT	NRRV	VBLn1V	VRI n2	SBL	
	IL .	וטוו	אוטויו				
Capacity (veh/h)		-	-	349	784	646	
HCM Control Polov (a)	vob\	-		0.436			
HCM Control Delay (s/	ven)	-	-	23	10	8.4	
HCM Lane LOS	\	-	-	C	A	A	
HCM 95th %tile Q(veh))	-	-	2.1	0.2	0.2	

Intersection						
Int Delay, s/veh	7.7					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
	TOL		INDL			JDK
Lane Configurations	230	105	05	220	1 285	190
Traffic Vol, veh/h Future Vol, veh/h	230	105	95 95	220 220	285	190
<u> </u>	230	0	95	0	200	190
Conflicting Peds, #/hr Sign Control			Free	Free	Free	Free
RT Channelized	Stop -	Stop None		None		None
	0	280	-		-	150
Storage Length	-	200	-	-	-	
Veh in Median Storage,			-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	96	96	96	96	96	96
Heavy Vehicles, %	3	3	3	3	4	4
Mvmt Flow	240	109	99	229	297	198
Major/Minor N	/linor2	N	Major1	N	Major2	
Conflicting Flow All	609	148	495	0	-	0
Stage 1	297	-	-	-	-	-
Stage 2	313	-	-	_	_	-
Critical Hdwy	6.86	6.96	4.16	_	-	-
Critical Hdwy Stg 1	5.86	-	-	_	_	_
Critical Hdwy Stg 2	5.86	_	_	_	_	_
Follow-up Hdwy	3.53	3.33	2.23	_	_	_
Pot Cap-1 Maneuver	424	868	1058	_	_	_
Stage 1	725	-	-	_	_	_
Stage 2	712	_	_	_	_	_
Platoon blocked, %	112			_	_	_
Mov Cap-1 Maneuver	382	868	1058		_	
Mov Cap-1 Maneuver	382	-	1030	_		_
	653	_	-	-		<u>-</u>
Stage 1		-	-	-	-	-
Stage 2	712	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s/v	22.99		2.97		0	
HCM LOS	С					
		NBL	NDT	EDI 51 F	EDI ~2	CDT
Minor Long/Major Mayor		INDL	INRI	EBLn1 E		SBT
Minor Lane/Major Mvm						
Capacity (veh/h)		991	-		868	-
Capacity (veh/h) HCM Lane V/C Ratio		991 0.094	-	0.628	0.126	-
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s/v		991 0.094 8.8	0.5	0.628 29	0.126 9.7	-
Capacity (veh/h) HCM Lane V/C Ratio	/eh)	991 0.094	-	0.628	0.126	-

Intersection												
Int Delay, s/veh	0.9											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*		7					1	7	*	^	
Traffic Vol, veh/h	25	0	340	0	0	0	0	325	100	25	155	0
Future Vol, veh/h	25	0	340	0	0	0	0	325	100	25	155	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	Free	-	-	None	-	-	Yield	-	-	None
Storage Length	0	-	220	-	-	-	-	-	0	800	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	92	92	92	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2	3	3	3	6	6	6
Mvmt Flow	28	0	378	0	0	0	0	361	111	28	172	0
Major/Minor	Minor2					<u> </u>	//ajor1		1	Major2		
Conflicting Flow All	589	-	-				-	0	0	361	0	0
Stage 1	228	-	-				-	-	-	-	-	-
Stage 2	361	-	-				-	-	-	-	-	-
Critical Hdwy	6.42	-	-				-	-	-	4.16	-	-
Critical Hdwy Stg 1	5.42	-	-				-	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-				-	-	-	-	-	-
Follow-up Hdwy	3.518	-	-				-	-	-	2.254	-	-
Pot Cap-1 Maneuver	471	0	0				0	-	-	1176	-	0
Stage 1	810	0	0				0	-	-	-	-	0
Stage 2	705	0	0				0	-	-	-	-	0
Platoon blocked, %								-	-		-	
Mov Cap-1 Maneuver	460	0	-				-	-	-	1176	-	-
Mov Cap-2 Maneuver	460	0	-				-	-	-	-	-	-
Stage 1	810	0	-				-	-	-	-	-	-
Stage 2	688	0	-				-	-	-	-	-	-
Approach	EB						NB			SB		
HCM Control Delay, s/	v13.33						0			1.13		
HCM LOS	В											
Minor Lane/Major Mvm	nt	NBT	NBR I	EBLn1 E	EBLn2	SBL	SBT					
Capacity (veh/h)		-	-	460	_	1176	-					
HCM Lane V/C Ratio		-	_	0.06	-	0.024	-					
HCM Control Delay (s/	veh)	-	_	13.3	0	8.1	_					
HCM Lane LOS	- /	-	-	В	A	A	-					
HCM 95th %tile Q(veh)	_	-	0.2	-	0.1	-					
22.7.2.2.2.(1011	,											

Int Delay, s/veh 8.3	Intersection												
Movement EBL EBT EBR WBL WBR WBR NBL NBT NBR SBL SBR SBR Lane Configurations		3.3											
Lane Configurations	•												
Traffic Vol, veh/h		BL E	EBT	EBR		WBT				NBR	SBL		
Future Vol, veh/h Conflicting Peds, #/hr O O O O O O O O O O O O O O O O O O O													
Conflicting Peds, #/hr						0							
Sign Control Stop RT Channelized Stop None Stop None Stop Stop Stop Stop Stop Stop Stop Stop	•												
RT Channelized - None - Stop - None - Yield Storage Length - 150 800 None - Yield Storage Length - 150 800 420 Veh in Median Storage, # 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0						0	0	0	0	0	0		0
Storage Length		ор S	Stop		Stop	Stop	Stop	Free	Free		Free	Free	
Veh in Median Storage, # - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 97 <		-	-	None	-	-		-	-	None	-	-	
Grade, % - 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	Storage Length	-	-	-	0	-	150	800	-	-	-	-	420
Peak Hour Factor 97	Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Heavy Vehicles, % 2 2 2 7 7 7 7 2 2 2 2 2 2 2 2 2 2 2 2	Grade, %	-				0			0	-			
Mymt Flow 0 0 113 0 10 273 88 0 0 72 10 Major/Minor Minor1 Major1 Major2 Conflicting Flow All 706 - 88 72 0 - - 0 Stage 1 634 -	Peak Hour Factor 9	97		97	97	97	97	97					
Major/Minor Minor1 Major1 Major2 Conflicting Flow All 706 - 88 72 0 0 0 Stage 1 634	Heavy Vehicles, %	2	2	2	7	7	7	2	2	2	2		
Conflicting Flow All	Mvmt Flow	0	0	0	113	0	10	273	88	0	0	72	10
Conflicting Flow All													
Conflicting Flow All	Major/Minor			N	Minor1			Major1		N	/aior2		
Stage 1 634 -				ľ					0	T N			^
Stage 2							ŏŏ	12	U	-	-	-	
Critical Hdwy 6.47 - 6.27 4.12							-	-	-	-	-	-	
Critical Hdwy Stg 1 5.47 - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6.07</td> <td>4.40</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>							6.07	4.40	-	-	-	-	-
Critical Hdwy Stg 2 5.47 - <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>0.27</td> <td></td> <td>-</td> <td>-</td> <td>_</td> <td>-</td> <td>-</td>						-	0.27		-	-	_	-	-
Follow-up Hdwy 3.563 - 3.363 2.218 Stage 1 Stage 1 Stage 2 938 0 0 0 0						-	-	-	-	-	-	-	-
Pot Cap-1 Maneuver 395						-	2.200	0.040	-	-	_	-	-
Stage 1 519 0 - - 0 0 - - Stage 2 938 0 - - 0 0 - - - 0 0 - - - 0 0 -									-			-	
Stage 2 938 0 - - 0 0 - - Platoon blocked, % - </td <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>95/</td> <td>1528</td> <td>-</td> <td></td> <td></td> <td>-</td> <td></td>	•						95/	1528	-			-	
Platoon blocked, %							-	-	-			-	
Mov Cap-1 Maneuver 324 0 957 1528 - <td></td> <td></td> <td></td> <td></td> <td>938</td> <td>0</td> <td>-</td> <td>-</td> <td>-</td> <td>0</td> <td>0</td> <td>-</td> <td></td>					938	0	-	-	-	0	0	-	
Mov Cap-2 Maneuver 324 0 -					001		0	4=00	-			-	-
Stage 1 426 0 -	•						957	1528	-	-	_	-	-
Stage 2 938 0 -							-	-	-	-	-	-	-
Approach WB NB SB HCM Control Delay, s/v 20.87 5.96 0 HCM LOS C Minor Lane/Major Mvmt NBL NBTWBLn1WBLn2 SBT SBR Capacity (veh/h) 1528 - 324 957 - HCM Lane V/C Ratio 0.179 - 0.35 0.011 - HCM Control Delay (s/veh) 7.9 - 22 8.8 - HCM Lane LOS A - C A -	•						-	-	-	-	-	-	-
HCM Control Delay, s/v 20.87 5.96 0	Stage 2				938	0	-	-	-	-	-	-	-
HCM Control Delay, s/v 20.87 5.96 0													
HCM Control Delay, s/v 20.87 5.96 0	Approach				WB			NB			SB		
Minor Lane/Major Mvmt NBL NBTWBLn1WBLn2 SBT SBR Capacity (veh/h) 1528 - 324 957 HCM Lane V/C Ratio 0.179 - 0.35 0.011 HCM Control Delay (s/veh) 7.9 - 22 8.8 HCM Lane LOS A - C A													
Minor Lane/Major Mvmt NBL NBTWBLn1WBLn2 SBT SBR Capacity (veh/h) 1528 - 324 957 HCM Lane V/C Ratio 0.179 - 0.35 0.011 HCM Control Delay (s/veh) 7.9 - 22 8.8 HCM Lane LOS A - C A								0.00					
Capacity (veh/h) 1528 - 324 957 HCM Lane V/C Ratio 0.179 - 0.35 0.011 HCM Control Delay (s/veh) 7.9 - 22 8.8 HCM Lane LOS A - C A	110.111 200												
Capacity (veh/h) 1528 - 324 957 HCM Lane V/C Ratio 0.179 - 0.35 0.011 HCM Control Delay (s/veh) 7.9 - 22 8.8 HCM Lane LOS A - C A	N.C		NID!	NET	VDI 41	VDL C	ODT	000					
HCM Lane V/C Ratio 0.179 - 0.35 0.011 HCM Control Delay (s/veh) 7.9 - 22 8.8 HCM Lane LOS A - C A -				NRIA			SBI	SRK					
HCM Control Delay (s/veh) 7.9 - 22 8.8 HCM Lane LOS A - C A							-	-					
HCM Lane LOS A - C A				-			-	-					
				-			-	-					
HCM 95th %tile Q(veh) 0.7 - 1.5 0				-			-	-					
	HCM 95th %tile Q(veh)		0.7	-	1.5	0	-	-					

Appendix C: Future-Year (Year 2049) Traffic Operations Analysis Worksheets

	4	1	1	4	ļ	لر	•	×	4	4	K	t
Movement	NBL	NBT	NBR	SBL	SBT	SBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations	*	1.		7	1		7	1	7	7	•	
Traffic Volume (veh/h)	25	330	110	75	215	60	120	295	15	140	320	0
Future Volume (veh/h)	25	330	110	75	215	60	120	295	15	140	320	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	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 Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1723	1723	1723	1723	1723	1723	1709	1709	1709	1709	1709	0
Adj Flow Rate, veh/h	28	375	125	85	244	68	136	335	0	159	364	0
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
Percent Heavy Veh, %	2	2	2	2	2	2	3	3	3	3	3	0
Cap, veh/h	376	501	167	234	526	146	356	474		369	448	0
Arrive On Green	0.41	0.41	0.41	0.41	0.41	0.41	0.11	0.28	0.00	0.10	0.26	0.00
Sat Flow, veh/h	983	1236	412	827	1296	361	1628	1709	1448	1628	1709	0
Grp Volume(v), veh/h	28	0	500	85	0	312	136	335	0	159	364	0
Grp Sat Flow(s),veh/h/ln	983	0	1649	827	0	1658	1628	1709	1448	1628	1709	0
Q Serve(g_s), s	1.4	0.0	16.6	6.3	0.0	8.8	3.6	11.3	0.0	4.4	12.8	0.0
Cycle Q Clear(g_c), s	10.2	0.0	16.6	22.8	0.0	8.8	3.6	11.3	0.0	4.4	12.8	0.0
Prop In Lane	1.00		0.25	1.00		0.22	1.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	376	0	668	234	0	672	356	474		369	448	0
V/C Ratio(X)	0.07	0.00	0.75	0.36	0.00	0.46	0.38	0.71		0.43	0.81	0.00
Avail Cap(c_a), veh/h	591	0	1030	286	0	777	552	801		591	801	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	17.7	0.0	16.2	26.0	0.0	13.9	15.1	20.8	0.0	15.5	22.1	0.0
Incr Delay (d2), s/veh	0.1	0.0	1.7	0.9	0.0	0.5	0.7	1.9	0.0	8.0	3.6	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.6	0.0	10.0	2.2	0.0	5.6	2.4	8.0	0.0	2.9	9.1	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	17.8	0.0	17.9	26.9	0.0	14.4	15.8	22.7	0.0	16.3	25.8	0.0
LnGrp LOS	В		В	С		В	В	С		В	С	
Approach Vol, veh/h		528			397			471			523	
Approach Delay, s/veh		17.9			17.1			20.7			22.9	
Approach LOS		В			В			С			С	
Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		30.9	11.3	21.8		30.9	10.3	22.8				
Change Period (Y+Rc), s		5.0	4.0	5.0		5.0	4.0	5.0				
Max Green Setting (Gmax), s		30.0	15.0	30.0		40.0	15.0	30.0				
Max Q Clear Time (g_c+I1), s		24.8	5.6	14.8		18.6	6.4	13.3				
Green Ext Time (p_c), s		1.1	0.2	2.0		3.7	0.3	1.9				
Intersection Summary												
HCM 7th Control Delay, s/veh			19.8									_
HCM 7th LOS			В									
Notes												

Intersection												
Int Delay, s/veh	2.3											
•				NA/DI	MOT	14/00	NDI	NET	NDD	001	0.D.T.	222
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			1-		7	•			1-	
Traffic Vol, veh/h	30	0	55	0	10	30	15	435	0	0	295	25
Future Vol, veh/h	30	0	55	0	10	30	15	435	0	0	295	25
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
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	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	17	17	17	2	2	2	2	2	2
Mvmt Flow	33	0	61	0	11	33	17	483	0	0	328	28
Major/Minor	Minor2			Minor1			Major1		N	//ajor2		
Conflicting Flow All	864	858	342	-	872	483	356	0		- -		0
Stage 1	342	342	342		517	403	-	-	<u>-</u>	-	-	-
Stage 2	522	517	_	-	356		_	_	_	_	_	_
Critical Hdwy	7.12	6.52	6.22		6.67	6.37	4.12	<u>-</u>	<u>-</u>	<u>-</u>	-	
Critical Hdwy Stg 1	6.12	5.52	0.22	_	5.67	0.57	4.12	_	_	_	-	_
Critical Hdwy Stg 2	6.12	5.52	-		5.67	-	<u>-</u>	-	<u>-</u>	-	-	
Follow-up Hdwy	3.518	4.018	3.318		4.153	3.453	2.218	_	-	_	-	_
Pot Cap-1 Maneuver	274	294	701	0	273	554	1203	-	0	0		-
•	673	638			510	554	1203	-			-	
Stage 1	538	534	-	0	604	-	-	-	0	0	-	-
Stage 2	338	554	-	U	004	-	-	-	U	U	-	-
Platoon blocked, %	044	200	704		260	EE 1	1000	-			-	-
Mov Cap-1 Maneuver	244	290	701	-	269	554	1203	-	-	-	-	-
Mov Cap-2 Maneuver	244	290	-	-	269	-	-	-	-	-	-	-
Stage 1	673	638	-	-	503	-	-	-	-	-	-	-
Stage 2	487	526	-	-	604	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s/	v15.97			14.14			0.27			0		
HCM LOS	С			В								
Minor Lane/Major Mvn	nt	NBL	NRT	EBLn1V	VRI n1	SBT	SBR					
	ı	1203	NDI	422		ODI	ODIX					
Capacity (veh/h)			-		438	-	-					
HCM Cantral Dalay (a	/la\	0.014	-	0.224		-	-					
HCM Lang LOS	ven)	8	-	16	14.1	-	-					
HCM Lane LOS	١ -	A	-	С	В	-	-					
HCM 95th %tile Q(veh)	0	-	8.0	0.3	-	-					

Intersection												
Int Delay, s/veh	1.8											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations					4	7		^	7		4	
Traffic Vol, veh/h	0	0	0	40	20	25	0	435	45	15	420	15
Future Vol, veh/h	0	0	0	40	20	25	0	435	45	15	420	15
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	Yield	-	-	None
Storage Length	-	-	-	-	-	0	-	-	80	-	-	-
Veh in Median Storage,	# -	0	_	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	2	2	2	12	12	12	3	3	3	3	3	3
Mvmt Flow	0	0	0	45	22	28	0	489	51	17	472	17
Major/Minor				Minor1		<u> </u>	Major1			Major2		
Conflicting Flow All				994	1011	489	-	0	0	489	0	0
Stage 1				489	489	-	-	-	-	-	-	-
Stage 2				506	522	-	-	-	-	-	-	-
Critical Hdwy				6.52	6.62	6.32	-	-	-	4.13	-	-
Critical Hdwy Stg 1				5.52	5.62	-	-	-	-	-	-	-
Critical Hdwy Stg 2				5.52	5.62	-	-	-	-	-	-	-
Follow-up Hdwy				3.608	4.108	3.408	-	-	-	2.227	-	-
Pot Cap-1 Maneuver				260	230	559	0	-	-	1069	-	-
Stage 1				596	533	-	0	-	-	-	-	-
Stage 2				586	515	-	0	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver				255	0	559	-	-	-	1069	-	-
Mov Cap-2 Maneuver				255	0	-	-	-	-	-	-	-
Stage 1				596	0	-	-	-	-	-	-	-
Stage 2				573	0	-	-	-	-	-	-	-
Approach				WB			NB			SB		
HCM Control Delay, s/v				20.51			0			0.28		
HCM LOS				C			•			V. L V		
Minor Lane/Major Mvmt		NBT	NBRV	VBLn1\	VBLn2	SBL	SBT	SBR				
Capacity (veh/h)		-	-		559	60	-	-				
HCM Lane V/C Ratio		_	_	0.265		0.016	_	_				
HCM Control Delay (s/ve	eh)	-	_			8.4	0	-				
HCM Lane LOS	7	-	-	С	В	A	A	-				
HCM 95th %tile Q(veh)		-	_	1	0.2	0	-	-				

	٠	-	•	•	•	•	1	1	~	-	ļ	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	•	7	*	17		*	•	7	*	•	7
Traffic Volume (veh/h)	190	280	140	115	315	30	150	255	105	25	300	200
Future Volume (veh/h)	190	280	140	115	315	30	150	255	105	25	300	200
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	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 Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1762	1762	1723	1748	1748	1856	1748	1748	1709	1748	1748	1709
Adj Flow Rate, veh/h	218	322	100	132	362	34	172	293	75	29	345	143
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Percent Heavy Veh, %	2	2	2	3	3	3	3	3	3	3	3	3
Cap, veh/h	422	431	357	330	623	58	353	522	432	374	460	381
Arrive On Green	0.14	0.24	0.24	0.09	0.20	0.20	0.11	0.30	0.30	0.07	0.26	0.26
Sat Flow, veh/h	1678	1762	1460	1665	3070	287	1665	1748	1448	1665	1748	1448
Grp Volume(v), veh/h	218	322	100	132	195	201	172	293	75	29	345	143
Grp Sat Flow(s), veh/h/ln	1678	1762	1460	1665	1661	1696	1665	1748	1448	1665	1748	1448
Q Serve(g_s), s	6.8	11.6	3.8	4.2	7.3	7.4	5.0	9.7	2.6	0.8	12.5	5.6
Cycle Q Clear(g_c), s	6.8	11.6	3.8	4.2	7.3	7.4	5.0	9.7	2.6	0.8	12.5	5.6
Prop In Lane	1.00	11.0	1.00	1.00	7.0	0.17	1.00	5.7	1.00	1.00	12.0	1.00
Lane Grp Cap(c), veh/h	422	431	357	330	337	344	353	522	432	374	460	381
V/C Ratio(X)	0.52	0.75	0.28	0.40	0.58	0.58	0.49	0.56	0.17	0.08	0.75	0.38
Avail Cap(c_a), veh/h	924	767	635	897	723	738	898	761	630	978	761	630
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	17.8	24.1	21.1	19.1	24.8	24.8	16.6	20.4	17.9	15.9	23.3	20.8
Incr Delay (d2), s/veh	1.0	4.4	0.7	0.8	1.6	1.6	1.0	1.0	0.2	0.1	4.2	1.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	4.5	8.7	2.3	2.8	5.1	5.3	3.3	6.8	1.5	0.5	9.0	3.3
Unsig. Movement Delay, s/veh		0.7	2.5	2.0	J. I	5.5	3.3	0.0	1.0	0.5	3.0	5.5
LnGrp Delay(d), s/veh	18.8	28.4	21.8	19.9	26.4	26.4	17.7	21.3	18.1	16.0	27.5	21.8
LnGrp LOS	В	20.4 C	21.0 C	19.9	20.4 C	20.4 C	В	Z1.3	В	В	27.5 C	Z1.0
	D		U	D	528		D	540	D	D	517	
Approach Vol, veh/h		640										
Approach Delay, s/veh		24.1			24.8			19.7			25.3	
Approach LOS		С			С			В			С	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	11.5	21.9	12.4	23.1	14.4	19.0	10.0	25.6				
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0				
Max Green Setting (Gmax), s	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0				
Max Q Clear Time (g_c+l1), s	6.2	13.6	7.0	14.5	8.8	9.4	2.8	11.7				
Green Ext Time (p_c), s	0.3	3.2	0.4	3.6	0.6	2.2	0.0	1.8				
Intersection Summary												
HCM 7th Control Delay, s/veh			23.5									
HCM 7th LOS			С									

Intersection							
Int Delay, s/veh	4.6						
Movement	EBL	EBR	NBL	NBT	SBT	SBR	j
Lane Configurations	TOL	T T	NDL	414	† ‡	ODIN	
Traffic Vol, veh/h	125	60	45	460	425	60	
Future Vol, veh/h	125	60	45	460	425	60	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	- Olop	None	-		-	None	
Storage Length	0	50	_	-	_	-	
Veh in Median Storage		-	_	0	0	_	
Grade, %	0	_	_	0	0	_	
Peak Hour Factor	87	87	87	87	87	87	
Heavy Vehicles, %	2	2	3	3	4	4	
Mymt Flow	144	69	52	529	489	69	
INIVITIL FIOW	144	09	IJΖ	329	409	09	
Major/Minor	Minor2	N	Major1	1	Major2		
Conflicting Flow All	891	279	557	0	-	0	
Stage 1	523	-	-	-	-	-	
Stage 2	368	-	-	-	-	-	
Critical Hdwy	6.84	6.94	4.16	-	-	-	
Critical Hdwy Stg 1	5.84	-	-	-	-	-	
Critical Hdwy Stg 2	5.84	-	-	-	-	-	
Follow-up Hdwy	3.52	3.32	2.23	-	-	-	
Pot Cap-1 Maneuver	282	718	1002	-	-	-	
Stage 1	559	-	-	-	-	-	
Stage 2	670	-	-	-	-	-	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuver	265	718	1002	-	_	-	
Mov Cap-2 Maneuver	265	-	-	-	_	-	
Stage 1	525	-	-	-	_	-	
Stage 2	670	_	_	_	_	_	
Olago 2	0.0						
Δ			ND		0.0		
Approach	EB		NB		SB		
HCM Control Delay, s/			1.19		0		
HCM LOS	D						
Minor Lane/Major Mvm	nt	NBL	NBT	EBLn1 E	EBLn2	SBT	
Capacity (veh/h)		321	_	265	718	-	
HCM Lane V/C Ratio		0.052	_	0.542		-	
HCM Control Delay (s/	veh)	8.8	0.4		10.5	-	
HCM Lane LOS	.011)	Α	Α	D	В	-	
HCM 95th %tile Q(veh)	0.2	-	3	0.3	_	
	1	0.2		J	0.0		

Intersection							
Int Delay, s/veh	2.9						
		EDD	NDI	NDT	ODT	ODD	
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	7	7	^^	41	1	^-	
Traffic Vol, veh/h	45	95	90	490	390	35	
Future Vol, veh/h	45	95	90	490	390	35	
Conflicting Peds, #/hr	0	0	0	_ 0	_ 0	_ 0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	-	None	-	None	-	None	
Storage Length	0	75	-	-	-	-	
Veh in Median Storage		-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	88	88	88	88	88	88	
Heavy Vehicles, %	2	2	3	3	4	4	
Mvmt Flow	51	108	102	557	443	40	
Major/Minor	Minor	,	Acier1	N	Major?		
	Minor2		Major1		Major2	^	
Conflicting Flow All	946	241	483	0	-	0	
Stage 1	463	-	-	-	-	-	
Stage 2	483	-	-	-	-	-	
Critical Hdwy	6.84	6.94	4.16	-	-	-	
Critical Hdwy Stg 1	5.84	-	-	-	-	-	
Critical Hdwy Stg 2	5.84	-	-	-	-	-	
Follow-up Hdwy	3.52	3.32	2.23	-	-	-	
Pot Cap-1 Maneuver	260	759	1069	-	-	-	
Stage 1	600	-	-	-	-	-	
Stage 2	586	-	-	-	-	-	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuver	230	759	1069	-	-		
Mov Cap-2 Maneuver	230	-	-	-	-	-	
Stage 1	532	-	_	-	-		
Stage 2	586	-	_	-	_	-	
			, in		65		
Approach	EB		NB		SB		
HCM Control Delay, s/			1.96		0		
HCM LOS	С						
Minor Lane/Major Mvn	nt	NBL	NRT	EBLn1 E	FRI n2	SBT	
		559	-		759	051	
Capacity (veh/h) HCM Lane V/C Ratio							
	/v.a.b.\	0.096		0.222		-	
HCM Control Delay (s	ven)	8.7	0.7	25	10.5	-	
HCM Lane LOS	.\	A	Α	D	В	-	
HCM 95th %tile Q(veh	1)	0.3	-	8.0	0.5	-	

Intersection							
Int Delay, s/veh	3.4						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	j
Lane Configurations	YVDL	VVDIX	↑ \$	NOIX	ODL	41	
Traffic Vol, veh/h	120	15	455	115	10	4 T 325	
Future Vol, veh/h	120	15	455	115	10	325	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	- Olop	Stop	-	None	-	None	
Storage Length	0	400	_	-	<u>-</u>	-	
Veh in Median Storage		-	0	_	_	0	
Grade, %	0	_	0	<u>-</u>	<u>-</u>	0	
Peak Hour Factor	87	87	87	87	87	87	
Heavy Vehicles, %	13	13	2	2	6	6	
Mvmt Flow	138	17	523	132	11	374	
WWITH TOW	130	17	323	102	- 11	314	
	Minor1		//ajor1		Major2		
Conflicting Flow All	799	328	0	0	655	0	
Stage 1	589	-	-	-	-	-	
Stage 2	210	-	-	-	-	-	
Critical Hdwy	7.06	7.16	-	-	4.22	-	
Critical Hdwy Stg 1	6.06	-	-	-	-	-	
Critical Hdwy Stg 2	6.06	-	-	-	-	-	
Follow-up Hdwy	3.63	3.43	-	-	2.26	-	
Pot Cap-1 Maneuver	301	637	-	_	901	-	
Stage 1	488	-	-	-	-	-	
Stage 2	773	-	-	_	-	-	
Platoon blocked, %			-	-		-	
Mov Cap-1 Maneuver	297	637	-	-	901	-	
Mov Cap-2 Maneuver	297	-	-	-	-	-	
Stage 1	488	-	-	-	-	-	
Stage 2	762	-	-	_	_	_	
3 % 0							
Annragah	WB		NB		SB		
Approach							
HCM Control Delay, s/			0		0.39		
HCM LOS	D						
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1V	VBLn2	SBL	
Capacity (veh/h)		_	_	297	637	107	
HCM Lane V/C Ratio		-	_	0.464			
HCM Control Delay (s/	veh)	_	_	27.2	10.8	9	
HCM Lane LOS		-	-	D	В	A	
HCM 95th %tile Q(veh)	-	-	2.3	0.1	0	
	1			,		-	

Intersection														
Int Delay, s/veh	612.9													
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR		
Lane Configurations	7	•	T.	*	^	T.		414			44	7		
Traffic Vol, veh/h	275	335	95	5	385	190	90	370	5	155	230	270		
Future Vol, veh/h	275	335	95	5	385	190	90	370	5	155	230	270		
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0		
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free		
RT Channelized	-	-	None	<u> </u>	_	None	-	-	None	-	_	None		
Storage Length	200	-	280	100	_	200	-	-	-	_	-	150		
Veh in Median Storage		0	_	_	0	_	-	0	-	_	0	-		
Grade, %	-	0	_	_	0	_	_	0	_	_	0	_		
Peak Hour Factor	89	92	89	92	92	92	89	89	92	92	89	89		
Heavy Vehicles, %	11	2	11	2	2	2	5	5	2	2	5	5		
Mvmt Flow	309	364	107	5	418	207	101	416	5	168	258	303		
WWW.CT IOW	000	004	107	U	710	201	101	710	U	100	200	000		
Major/Minor	Minor2		ı	Minor1			Major1		ı	Major2				
Conflicting Flow All	1215	1219	129	1269	1519	211	562	0	0	421	0	0		
Stage 1	595	595	-	621	621	-	-	-	-	-	-	-		
Stage 2	619	623	_	648	899	_	_	_	_	_	_	_		
Critical Hdwy	7.72	6.54	7.12	7.54	6.54	6.94	4.2	_	_	4.14	_	_		
Critical Hdwy Stg 1	6.72	5.54	1.12	6.54	5.54	0.54	7.2	_	_	7.17	_	_		
Critical Hdwy Stg 2	6.72	5.54	_	6.54	5.54	_		_	-	_	_	_		
Follow-up Hdwy	3.61	4.02	3.41	3.52	4.02	3.32	2.25	_	_	2.22	_	_		
Pot Cap-1 Maneuver		~ 179	869		~ 118	795	985	_	_	1134	_	_		
Stage 1	436	490	- 009	442	478	133	303	_	_	1104	-	_		
	421	476	-		~ 356	-	_	-	_	-	-			
Stage 2	421	4/0	_	425	~ 330	_	_	_	_	-				
Platoon blocked, %	co	120	000	00	0.5	705	005	-	-	1121	-	-		
Mov Cap-1 Maneuver		~ 130	869	80	~ 85	795	985	-	-	1134	-	-		
Mov Cap-2 Maneuver		~ 130	-	80	~ 85	-	-	-	-	-	-	-		
Stage 1	358	402	-	390	422	-	-	-	-	-	-	-		
Stage 2	~ 2	421	-	29	~ 292	-	-	-	-	-	-	-		
Approach	EB			WB			NB			SB				
HCM Control Delay\$s/			\$ 12	235.57			2.32			2.25				
HCM LOS	F			F										
Minor Lane/Major Mvm	nt	NBL	NBT	NBR I	EBLn1	EBLn2	EBLn3V	VBLn1V	VBLn2V	VBLn3	SBL	SBT	SBR	
Capacity (veh/h)		685	-	-	68	130	869	80	85	795	1053	-	-	
HCM Lane V/C Ratio		0.103	-	-	4.516	2.805	0.123	0.068	4.903	0.26	0.149	-	-	
HCM Control Delay (s/	veh)	9.1	0.7		1704.8\$		9.7		1855.2	11.1	8.7	0.7	-	
HCM Lane LOS		Α	Α	_	F	F	Α	F	F	В	Α	Α	-	
HCM 95th %tile Q(veh)	0.3	-	-	33.5	33.4	0.4	0.2	45.1	1	0.5	-	-	
Notes														
~: Volume exceeds ca	nacity	\$· Do	elay exc	pade 3	nns	+. Com	nutatio	n Not De	efined	*· ΔII	maiory	nlume i	in platoon	
. Volume exceeds ca	pacity	ψ. DE	lay ext	ecus 3	005	·. Com	pulation	ו ואטנ טו	emieu	. All	major v	/Jiuilie i	ii piatoon	

Intersection												
Int Delay, s/veh	0.4											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*		7					1	7	*	^	
Traffic Vol, veh/h	10	0	455	0	0	0	0	605	230	30	340	0
Future Vol, veh/h	10	0	455	0	0	0	0	605	230	30	340	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	· -	-	Free	-	-	None	-	-	Yield	-	-	None
Storage Length	0	-	220	-	-	-	-	-	0	800	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	86	86	86	92	92	92	86	86	86	86	86	86
Heavy Vehicles, %	3	3	3	2	2	2	3	3	3	15	15	15
Mvmt Flow	12	0	529	0	0	0	0	703	267	35	395	0
Major/Minor	Minor2					N	/lajor1		N	/lajor2		
Conflicting Flow All	1169	-	-				-	0	0	703	0	0
Stage 1	465	-	-				_	-	-	-	-	-
Stage 2	703	-	-				-	-	-	-	-	-
Critical Hdwy	6.43	-	-				-	-	-	4.25	-	-
Critical Hdwy Stg 1	5.43	-	-				-	-	-	-	-	-
Critical Hdwy Stg 2	5.43	-	-				-	-	-	-	-	-
Follow-up Hdwy	3.527	-	-				-	-	-	2.335	-	-
Pot Cap-1 Maneuver	213	0	0				0	-	-	837	-	0
Stage 1	630	0	0				0	-	-	-	-	0
Stage 2	489	0	0				0	-	-	-	-	0
Platoon blocked, %								-	-		-	
Mov Cap-1 Maneuver	204	0	-				-	-	-	837	-	-
Mov Cap-2 Maneuver	204	0	-				-	-	-	-	-	-
Stage 1	630	0	-				-	-	-	-	-	-
Stage 2	468	0	-				-	-	-	-	-	-
Approach	EB						NB			SB		
HCM Control Delay, s/	v23.74						0			0.77		
HCM LOS	С											
Minor Lane/Major Mvm	nt	NBT	NBR I	EBLn1 E	EBLn2	SBL	SBT					
Capacity (veh/h)		-	-	204	-	837	-					
HCM Lane V/C Ratio		-	_	0.057	_	0.042	-					
HCM Control Delay (s/	veh)	-	-	23.7	0	9.5	-					
HCM Lane LOS	. 3,	-	_	C	A	A	-					
HCM 95th %tile Q(veh)	-	-	0.2	-	0.1	-					
7000 00 00	1			J		J . 1						

Intersection													
Int Delay, s/veh	577.5												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations				*		7	*	^		<u> </u>	^	7	
Traffic Vol, veh/h	0	0	0	285	0	10	580	30	0	0	85	45	
Future Vol, veh/h	0	0	0	285	0	10	580	30	0	0	85	45	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None	-	-	Stop	-	_	None	_	_	Yield	
Storage Length	_	-	-	0	_	150	800	-	-	-	-	420	
Veh in Median Storage	.# -	0	_	_	0	-	-	0	-	_	0	-	
Grade, %	-	0	-	-	0	-	_	0	_	-	0	_	
Peak Hour Factor	84	84	84	84	84	84	84	84	84	84	84	84	
Heavy Vehicles, %	2	2	2	21	21	21	2	2	2	3	3	3	
Mvmt Flow	0	0	0	339	0	12	690	36	0	0	101	54	
N.A'/N.A'				P			M - 1			40			
Major/Minor				Minor1			Major1			//ajor2			
Conflicting Flow All				1518	-	36	101	0	-	-	-	0	
Stage 1				1417	-	-	-	-	-	-	-	-	
Stage 2				101	-	- 0.44	- 4.40	-	-	-	-	-	
Critical Hdwy				6.61	-	6.41	4.12	-	-	-	-	-	
Critical Hdwy Stg 1				5.61	-	-	-	-	-	-	-	-	
Critical Hdwy Stg 2				5.61	-	- 400	-	-	-	-	-	-	
Follow-up Hdwy				3.689	-	3.489	2.218	-	-	-	-	-	
Pot Cap-1 Maneuver				~ 119	0	985	1491	-	0	0	-	-	
Stage 1				~ 203	0	-	-	-	0	0	-	-	
Stage 2				877	0	-	-	-	0	0	-	-	
Platoon blocked, %				C.A	٥	005	1401	-			-	-	
Mov Cap-1 Maneuver				~ 64 ~ 64	0	985	1491	-	-	-	-	-	
Mov Cap-2 Maneuver Stage 1				~ 109		-	-	-	-	-	-	-	
				877	0	_	-	_	_	-	-	-	
Stage 2				011	U	-	-	-	-	-	-	-	
Approach				WB			NB			SB			
HCM Control Delay, s/v	/		\$ 20	07.53			9.01			0			
HCM LOS				F									
Minor Lane/Major Mvm	t	NBL	NRTV	VBLn1V	VRI n2	SBT	SBR						
Capacity (veh/h)		1491	-	64	985	-	-						
HCM Lane V/C Ratio		0.463			0.012	-	-						
HCM Control Delay (s/\	veh)	9.5		2077.7	8.7	-	-						
HCM Lane LOS	v e n)	9.5 A	Ψ2 -	<i>5011.1</i> F	ο. <i>τ</i>	-	<u>-</u>						
HCM 95th %tile Q(veh)		2.5	<u>-</u>		0	_	-						
` '		2.5	_	37.0	U								
Notes													
~: Volume exceeds cap	oacity	\$: De	lay exc	eeds 30	00s	+: Com	putation	Not D	efined	*: All	major v	olume ii	n platoon

Intersection												
Intersection Delay, s/veh	22.9											
Intersection LOS	С											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	↑	7	*	↑	7	*	^	7	*	^	7
Traffic Vol, veh/h	5	135	5	30	155	285	5	290	20	255	235	5
Future Vol, veh/h	5	135	5	30	155	285	5	290	20	255	235	5
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	147	5	33	168	310	5	315	22	277	255	5
Number of Lanes	1	1	1	1	1	1	1	1	1	1	1	1
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	3			3			3			3		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	3			3			3			3		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	3			3			3			3		
HCM Control Delay, s/veh	16.7			19.9			29.6			23.4		
HCM LOS	С			С			D			С		
Lana		NDI n1	NDI 52	NIDI 52	EDI n1	EDI 52	EDI n2	WDI n1	WDI 52	WDI 52	CDI n1	CDI 52

Lane	NBLn1	NBLn2	NBLn3	EBLn1	EBLn2	EBLn3	WBLn1	WBLn2	WBLn3	SBLn1	SBLn2
Vol Left, %	100%	0%	0%	100%	0%	0%	100%	0%	0%	100%	0%
Vol Thru, %	0%	100%	0%	0%	100%	0%	0%	100%	0%	0%	100%
Vol Right, %	0%	0%	100%	0%	0%	100%	0%	0%	100%	0%	0%
Sign Control	Stop										
Traffic Vol by Lane	5	290	20	5	135	5	30	155	285	255	235
LT Vol	5	0	0	5	0	0	30	0	0	255	0
Through Vol	0	290	0	0	135	0	0	155	0	0	235
RT Vol	0	0	20	0	0	5	0	0	285	0	0
Lane Flow Rate	5	315	22	5	147	5	33	168	310	277	255
Geometry Grp	6	6	6	6	6	6	6	6	6	6	6
Degree of Util (X)	0.013	0.734	0.046	0.015	0.372	0.013	0.078	0.382	0.642	0.653	0.566
Departure Headway (Hd)	8.884	8.384	7.684	9.631	9.131	8.431	8.664	8.164	7.464	8.48	7.98
Convergence, Y/N	Yes										
Сар	401	429	463	374	396	427	412	438	480	424	450
Service Time	6.679	6.179	5.479	7.331	6.831	6.131	6.452	5.952	5.252	6.27	5.77
HCM Lane V/C Ratio	0.012	0.734	0.048	0.013	0.371	0.012	0.08	0.384	0.646	0.653	0.567
HCM Control Delay, s/veh	11.8	31.2	10.9	12.5	17.1	11.2	12.2	16	22.8	26	20.8
HCM Lane LOS	В	D	В	В	С	В	В	С	С	D	С
HCM 95th-tile Q	0	5.9	0.1	0	1.7	0	0.3	1.8	4.5	4.5	3.4

	4	1	1	4	ţ	لير	•	×	4	4	K	V
Movement	NBL	NBT	NBR	SBL	SBT	SBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations	*	1		*	1		*	•	7	*	•	
Traffic Volume (veh/h)	45	320	180	75	450	115	85	395	45	165	215	0
Future Volume (veh/h)	45	320	180	75	450	115	85	395	45	165	215	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	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 Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1723	1723	1723	1723	1723	1723	1723	1723	1723	1723	1723	0
Adj Flow Rate, veh/h	48	340	191	80	479	122	90	420	0	176	229	0
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
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	0
Cap, veh/h	182	453	255	223	580	148	435	485		303	508	0
Arrive On Green	0.44	0.44	0.44	0.44	0.44	0.44	0.09	0.28	0.00	0.10	0.29	0.00
Sat Flow, veh/h	753	1036	582	804	1325	337	1641	1723	1460	1641	1723	0
Grp Volume(v), veh/h	48	0	531	80	0	601	90	420	0	176	229	0
Grp Sat Flow(s),veh/h/ln	753	0	1618	804	0	1662	1641	1723	1460	1641	1723	0
Q Serve(g_s), s	4.7	0.0	21.4	7.2	0.0	24.8	2.9	18.1	0.0	5.8	8.4	0.0
Cycle Q Clear(g_c), s	29.5	0.0	21.4	28.6	0.0	24.8	2.9	18.1	0.0	5.8	8.4	0.0
Prop In Lane	1.00		0.36	1.00		0.20	1.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	182	0	708	223	0	728	435	485		303	508	0
V/C Ratio(X)	0.26	0.00	0.75	0.36	0.00	0.83	0.21	0.87		0.58	0.45	0.00
Avail Cap(c_a), veh/h	239	0	830	223	0	728	606	663		453	663	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	32.3	0.0	18.3	30.3	0.0	19.3	16.8	26.6	0.0	19.2	22.4	0.0
Incr Delay (d2), s/veh	0.8	0.0	3.2	1.0	0.0	7.8	0.2	8.8	0.0	1.8	0.6	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	1.6	0.0	12.8	2.6	0.0	15.9	1.9	13.1	0.0	4.1	6.1	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	33.1	0.0	21.6	31.3	0.0	27.1	17.0	35.4	0.0	21.0	23.0	0.0
LnGrp LOS	С		С	С		С	В	D		С	С	
Approach Vol, veh/h		579			681			510			405	
Approach Delay, s/veh		22.5			27.6			32.2			22.1	
Approach LOS		C			С			С			С	
Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		39.1	10.9	28.0		39.1	11.9	27.0				
Change Period (Y+Rc), s		5.0	4.0	5.0		5.0	4.0	5.0				
Max Green Setting (Gmax), s		30.0	15.0	30.0		40.0	15.0	30.0				
Max Q Clear Time (g c+l1), s		30.6	4.9	10.4		31.5	7.8	20.1				
Green Ext Time (p_c), s		0.0	0.1	1.3		2.6	0.3	1.9				
u = 7:		0.0	0.1	1.0		2.0	0.5	1.3				
Intersection Summary			00.0									
HCM 7th Control Delay, s/veh			26.3									
HCM 7th LOS			С									
Notes												

Intersection												
Int Delay, s/veh	6.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			1.		*	^			1	
Traffic Vol, veh/h	55	0	55	0	35	70	30	375	0	0	585	60
Future Vol, veh/h	55	0	55	0	35	70	30	375	0	0	585	60
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
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, %	3	3	3	4	4	4	2	2	2	2	2	2
Mvmt Flow	60	0	60	0	38	76	33	408	0	0	636	65
Major/Minor	Minor2		I	Minor1			Major1		N	Major2		
Conflicting Flow All	1160	1141	668	-	1174	408	701	0	-	-	-	0
Stage 1	668	668	-	-	473	-	-	-	-	-	-	-
Stage 2	492	473	-	-	701	-	-	-	-	-	-	-
Critical Hdwy	7.13	6.53	6.23	-	6.54	6.24	4.12	-	-	-	-	-
Critical Hdwy Stg 1	6.13	5.53	-	-	5.54	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.13	5.53	-	-	5.54	_	-	-	-	-	-	-
Follow-up Hdwy	3.527	4.027	3.327	-	4.036	3.336	2.218	-	-	-	-	-
Pot Cap-1 Maneuver	172	200	456	0	190	639	896	-	0	0	-	-
Stage 1	446	455	-	0	555	-	-	-	0	0	-	-
Stage 2	557	557	-	0	438	-	-	-	0	0	-	-
Platoon blocked, %								-			-	-
Mov Cap-1 Maneuver	116	192	456	-	183	639	896	-	-	-	-	-
Mov Cap-2 Maneuver	116	192	-	-	183	-	-	-	-	-	-	-
Stage 1	446	455	-	-	535	-	-	-	-	-	-	-
Stage 2	439	537	-	-	438	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s/	v54.17			20.22			0.68			0		
HCM LOS	F			С								
Minor Lane/Major Mvm	nt	NBL	NBT	EBLn1V	VBLn1	SBT	SBR					
Capacity (veh/h)		896	_	185	349	_	-					
HCM Lane V/C Ratio		0.036	_	0.645		-	_					
HCM Control Delay (s/	veh)	9.2	_	54.2	20.2	-	-					
HCM Lane LOS	,	A	-	F	C	-	_					
HCM 95th %tile Q(veh)	0.1	_	3.7	1.4	-	-					
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	,											

Intersection												
Int Delay, s/veh	1.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations					4	7		•	7		4	
Traffic Vol, veh/h	0	0	0	15	15	55	0	575	75	45	360	85
Future Vol, veh/h	0	0	0	15	15	55	0	575	75	45	360	85
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	Yield	-	-	None
Storage Length	-	-	-	-	-	0	-	-	80	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	98	98	98	98	98	98	98	98	98
Heavy Vehicles, %	2	2	2	4	4	4	2	2	2	2	2	2
Mvmt Flow	0	0	0	15	15	56	0	587	77	46	367	87
Major/Minor				Minor1		ľ	Major1		1	Major2		
Conflicting Flow All				1046	1133	587		0	0	587	0	0
Stage 1				587	587	-	-	-	-	-	-	-
Stage 2				459	546	-	-	-	-	-	-	-
Critical Hdwy				6.44	6.54	6.24	-	-	-	4.12	-	-
Critical Hdwy Stg 1				5.44	5.54	-	-	-	-	-	-	-
Critical Hdwy Stg 2				5.44	5.54	-	-	-	-	-	-	-
Follow-up Hdwy				3.536	4.036	3.336	-	-	-	2.218	-	-
Pot Cap-1 Maneuver				251	201	506	0	-	-	988	-	-
Stage 1				552	493	-	0	-	-	-	-	-
Stage 2				632	515	-	0	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver				235	0	506	-	-	-	988	-	-
Mov Cap-2 Maneuver				235	0	-	-	-	-	-	-	-
Stage 1				552	0	-	-	-	-	-	-	-
Stage 2				592	0	-	-	-	-	-	-	-
Approach				WB			NB			SB		
HCM Control Delay, s/v				16.39			0			0.81		
HCM LOS				С								
Minor Lane/Major Mvmt		NBT	NBRV	VBLn1V	VBLn2	SBL	SBT	SBR				
Capacity (veh/h)		-	_	235	506	159	-	-				
HCM Lane V/C Ratio		-	-		0.111		-	_				
HCM Control Delay (s/v	eh)	-	_	22.6	13	8.8	0	-				
HCM Lane LOS	,	-	-	С	В	Α	A	_				
HCM 95th %tile Q(veh)		-	-	0.4	0.4	0.1	-	-				

	٠	→	•	•	•	•	1	†	~	1	ļ	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	•	7	*	17		*	•	7	*	•	7
Traffic Volume (veh/h)	300	555	240	155	425	55	255	335	220	25	240	370
Future Volume (veh/h)	300	555	240	155	425	55	255	335	220	25	240	370
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	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 Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1762	1762	1723	1762	1762	1870	1762	1762	1723	1762	1762	1723
Adj Flow Rate, veh/h	316	584	157	163	447	58	268	353	144	26	253	241
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
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	458	576	478	238	783	101	394	537	445	281	374	310
Arrive On Green	0.16	0.33	0.33	0.10	0.26	0.26	0.15	0.30	0.30	0.05	0.21	0.21
Sat Flow, veh/h	1678	1762	1460	1678	2982	385	1678	1762	1460	1678	1762	1460
Grp Volume(v), veh/h	316	584	157	163	250	255	268	353	144	26	253	241
Grp Sat Flow(s), veh/h/ln	1678	1762	1460	1678	1674	1693	1678	1762	1460	1678	1762	1460
Q Serve(g_s), s	11.8	30.0	7.4	6.3	11.9	12.0	10.8	16.0	7.0	1.1	12.1	14.3
Cycle Q Clear(g_c), s	11.8	30.0	7.4	6.3	11.9	12.0	10.8	16.0	7.0	1.1	12.1	14.3
Prop In Lane	1.00	30.0	1.00	1.00	11.5	0.23	1.00	10.0	1.00	1.00	12.1	1.00
Lane Grp Cap(c), veh/h	458	576	478	238	440	445	394	537	445	281	374	310
V/C Ratio(X)	0.69	1.01	0.33	0.68	0.57	0.57	0.68	0.66	0.32	0.09	0.68	0.78
Avail Cap(c_a), veh/h	739	576	478	628	548	554	696	576	478	738	576	478
HCM Platoon Ratio	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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	19.2		23.3		29.3			27.7		25.3	33.2	
Uniform Delay (d), s/veh		30.9		24.1		29.4	22.5		24.6			34.1
Incr Delay (d2), s/veh	1.9	40.8	0.7	3.4	1.2	1.2	2.1	2.5	0.4	0.1	3.6	7.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	8.0	25.9	4.6	4.7	8.3	8.5	7.6	11.1	4.3	0.8	9.2	9.3
Unsig. Movement Delay, s/veh		74.7	00.0	07.5	00.5	00.5	04.0	00.0	05.0	05.5	00.0	44.0
LnGrp Delay(d), s/veh	21.0	71.7	23.9	27.5	30.5	30.5	24.6	30.2	25.0	25.5	36.8	41.2
LnGrp LOS	С	F	С	С	С	С	С	С	С	С	D	D
Approach Vol, veh/h		1057			668			765			520	
Approach Delay, s/veh		49.4			29.8			27.2			38.3	
Approach LOS		D			С			С			D	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	13.7	35.0	18.5	24.5	19.7	29.1	10.0	33.0				
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0				
Max Green Setting (Gmax), s	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0				
Max Q Clear Time (g_c+l1), s	8.3	32.0	12.8	16.3	13.8	14.0	3.1	18.0				
Green Ext Time (p_c), s	0.4	0.0	0.7	3.2	0.8	2.6	0.0	2.0				
Intersection Summary												
HCM 7th Control Delay, s/veh			37.5									
HCM 7th LOS			D									

Intersection						
Int Delay, s/veh	5.5					
		EDD	ND	NET	ODT	ODD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	7	7		44	1	4.10
Traffic Vol, veh/h	95	65	95	520	630	110
Future Vol, veh/h	95	65	95	520	630	110
Conflicting Peds, #/hr		0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	50	-	-	-	-
Veh in Median Storage	e,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	100	68	100	547	663	116
	Minor2		//ajor1		Major2	
Conflicting Flow All	1195	389	779	0	-	0
Stage 1	721	-	-	-	-	-
Stage 2	474	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	179	609	834	-	-	
Stage 1	442	-	-	-	-	-
Stage 2	593	-	-	-	-	-
Platoon blocked, %				_	-	-
Mov Cap-1 Maneuver	154	609	834	-	-	-
Mov Cap-2 Maneuver		-	-	_	_	_
Stage 1	380	_	_	_	_	_
Stage 2	593	_	_	_	_	_
Olugo Z	000					
Approach	EB		NB		SB	
HCM Control Delay, s	/v42.69		2.4		0	
HCM LOS	Е					
Minor Lane/Major Mvr	nt	NBL	NPT	EBLn1 i	ERI n2	SBT
	III					اقد
Capacity (veh/h)		556	-		609	-
HCM Lane V/C Ratio	/ 1>	0.12	-		0.112	-
HCM Control Delay (s	/veh)	9.9	1	63.9	11.7	-
HCM Lane LOS		A	Α	F	В	-
HCM 95th %tile Q(veh	1)	0.4	-	3.6	0.4	-

Intersection							J
Int Delay, s/veh	3.4						
		EDD	NDI	NDT	CDT	CDD	
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	10	*	405	414	†	40	
Traffic Vol, veh/h	40	115	135	480	625	40	
Future Vol, veh/h	40	115	135	480	625	40	
Conflicting Peds, #/hr	0	0	_ 0	_ 0	_ 0	_ 0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	-	None	-	None	-	None	
Storage Length	0	75	-	-	-	-	
Veh in Median Storage		-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	95	95	95	95	95	95	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	42	121	142	505	658	42	
Major/Minor	Minor		laiar1	, n	/loior?		
	Minor2		Major1		Major2		
Conflicting Flow All	1216	350	700	0	-	0	
Stage 1	679	-	-	-	-	-	
Stage 2	537	-	-	-	-	-	
Critical Hdwy	6.84	6.94	4.14	-	-	-	
Critical Hdwy Stg 1	5.84	-	-	-	-	-	
Critical Hdwy Stg 2	5.84	-	-	-	-	-	
Follow-up Hdwy	3.52	3.32	2.22	-	-	-	
Pot Cap-1 Maneuver	174	646	893	-	-	-	
Stage 1	465	-	-	-	-	-	
Stage 2	550	-	-	-	-	-	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuver	141	646	893	-	-	-	
Mov Cap-2 Maneuver	141	-	-	-	-	-	
Stage 1	379	-	-	-	-	-	
Stage 2	550	-	-	_	_	-	
					0.5		
Approach	EB		NB		SB		
HCM Control Delay, s/			3.06		0		
HCM LOS	С						
Minor Lane/Major Mvm	nt	NBL	NRT	EBLn1 E	FBI n2	SBT	
Capacity (veh/h)		767	11011	141	646	ופט	
HCM Lane V/C Ratio		0.159	-	0.298		-	
	\(\ab\)					-	
HCM Lang LOS	ven)	9.8	1.2	40.9	11.9	-	
HCM Lane LOS	١	A	Α	E	В	-	
HCM 95th %tile Q(veh)	0.6	-	1.2	0.7	-	

Intersection						
Int Delay, s/veh	4.4					
	WBL	WBR	NBT	NBR	SBL	SBT
Movement				NDK	ODL	
Lane Configurations	170	10	1	165	10	411
Traffic Vol, veh/h	170	10	370	165		480
Future Vol, veh/h	170	10	370	165	10	480
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Stop	-		-	None
Storage Length	0	400	-	-	-	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	4	4	2	2	2	2
Mvmt Flow	185	11	402	179	11	522
Major/Minor	Minor1	N	/lajor1	N	Major2	
Conflicting Flow All	774	291	0	0	582	0
	492		U	U		
Stage 1		-		-	-	-
Stage 2	283	- 6 00	-	-	- 111	-
Critical Hdwy	6.88	6.98	-	-	4.14	-
Critical Hdwy Stg 1	5.88	-	-	-	-	-
Critical Hdwy Stg 2	5.88	-	-	-	-	-
Follow-up Hdwy	3.54	3.34	-	-	2.22	-
Pot Cap-1 Maneuver	331	700	-	-	989	-
Stage 1	574	-	-	-	-	-
Stage 2	734	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	326	700	-	-	989	-
Mov Cap-2 Maneuver	326	-	-	-	-	-
Stage 1	574	-	-	-	-	-
Stage 2	725	-	-	-	-	-
Approach	WB		NB		SB	
					0.28	
HCM Control Delay, s/			0		U.Zŏ	
HCM LOS	D					
Minor Lane/Major Mvn	nt	NBT	NBRV	VBLn1V	VBLn2	SBL
Capacity (veh/h)		_	-		700	73
HCM Lane V/C Ratio		_		0.566		
HCM Control Delay (s/	/veh)	_	_		10.2	8.7
HCM Lane LOS		_	_	D	В	A
HCM 95th %tile Q(veh)	_	_	3.3	0	0
HOW JOHN JOHNE W(VEH	1	_		0.0	U	U

Intersection														
Int Delay, s/veh	708.3													
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR		
Lane Configurations	*	1	7	*	^	7		414			44	7		
Traffic Vol, veh/h	350	335	80	5	305	155	65	305	5	205	415	305		
Future Vol, veh/h	350	335	80	5	305	155	65	305	5	205	415	305		
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0		
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free		
RT Channelized	<u> </u>	-	None	-	-	None	-	_	None	_	_	None		
Storage Length	200	-	280	100	-	200	-	-	-	-	-	150		
Veh in Median Storage	e.# -	0	_	_	0	_	_	0	-	_	0	-		
Grade, %	_	0	_	-	0	_	_	0	_	_	0	_		
Peak Hour Factor	96	92	96	92	92	92	96	96	92	92	96	96		
Heavy Vehicles, %	3	2	3	2	2	2	3	3	2	2	4	4		
Mvmt Flow	365	364	83	5	332	168	68	318	5	223	432	318		
WWW.	000	004	- 00		002	100	- 00	010		220	702	010		
Major/Minor I	Minor2		N	Minor1			Major1			Major2				
Conflicting Flow All	1338	1337	216	1300	1651	162	750	0	0	323	0	0		
Stage 1	878	878	210	456	456	102	750	-	-	323	-	-		
Stage 2	460	459	_	844	1196	_		_	_	_	-	_		
Critical Hdwy	7.56	6.54	6.96	7.54	6.54	6.94	4.16	_	_	4.14	-			
	6.56	5.54		6.54	5.54	0.94			_	4.14				
Critical Hdwy Stg 1			-			_	-	-	-	-	-	-		
Critical Hdwy Stg 2	6.56	5.54	-	6.54	5.54	-	-	-	-	- 0.00	-	-		
Follow-up Hdwy	3.53	4.02	3.33	3.52	4.02	3.32	2.23	-	-	2.22	-	-		
Pot Cap-1 Maneuver		~ 152	785	119	~ 98	855	848	-	-	1233	-	-		
Stage 1		~ 364	-	554	567	-	-	-	-	-	-	-		
Stage 2	548	565	-	324	~ 258	-	-	-	-	-	-	-		
Platoon blocked, %								-	-		-	-		
Mov Cap-1 Maneuver		~ 106	785	74	~ 68	855	848	-	-	1233	-	-		
Mov Cap-2 Maneuver		~ 106	-	74	~ 68	-	-	-	-	-	-	-		
Stage 1	~ 235		-	505	517	-	-	-	-	-	-	-		
Stage 2	~ 144	515	-	-	~ 198	-	-	-	-	-	-	-		
Approach	EB			WB			NB			SB				
HCM Control Delay\$ s/	5 74.48		\$ 12	21.57			2.15			2.4				
HCM LOS	F			F										
Minor Lane/Major Mvm	nt	NBL	NBT	NBR I	EBLn1	EBLn2	EBLn3\	VBLn1V	VBLn2V	VBLn3	SBL	SBT	SBR	
Capacity (veh/h)		609	-		62	106	785	74	68	855	1085			
HCM Lane V/C Ratio		0.08	_	_		3.423					0.181	_	<u>-</u>	
HCM Control Delay (s/	(vah)	9.6	0.6			1175.2	10.1		1856.2	10.2	8.6	1	<u>-</u>	
HCM Lane LOS	v e n)			Ψ 2						10.2 B				
	١	A	Α	-	F	F 26	B	F	F		A	Α	-	
HCM 95th %tile Q(veh))	0.3	-	-	41.2	36	0.4	0.2	36.3	0.7	0.7	-	-	
Notes														
~: Volume exceeds cap		Φ D	1	eeds 3	00-		nutation	n Not D	- £:l	*. A II	:	ا محسنام،	in platoo	

Intersection												
Int Delay, s/veh	1.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7		7	1100	***	WDIX	IIDL	↑	*	7	↑	ODIT
Traffic Vol, veh/h	40	0	640	0	0	0	0	620	235	40	295	0
Future Vol, veh/h	40	0	640	0	0	0	0	620	235	40	295	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	_	-	Free	-	-	None	-	-	Yield	-	-	None
Storage Length	0	-	220	-	-	-	-	-	520	800	-	-
Veh in Median Storage	e, # -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	92	92	92	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2	3	3	3	6	6	6
Mvmt Flow	44	0	711	0	0	0	0	689	261	44	328	0
Major/Minor	Minor2					N	/lajor1		ľ	Major2		
Conflicting Flow All	1106	-	-				-	0	0	689	0	0
Stage 1	417	-	-				_	-	-	-	-	-
Stage 2	689	-	-				-	-	-	-	-	-
Critical Hdwy	6.42	-	-				-	-	-	4.16	-	-
Critical Hdwy Stg 1	5.42	-	-				-	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-				-	-	-	-	-	-
Follow-up Hdwy	3.518	-	-				-	-	-	2.254	-	-
Pot Cap-1 Maneuver	233	0	0				0	-	-	887	-	0
Stage 1	665	0	0				0	-	-	-	-	0
Stage 2	498	0	0				0	-	-	-	-	0
Platoon blocked, %								-	-		-	
Mov Cap-1 Maneuver	221	0	-				-	-	-	887	-	-
Mov Cap-2 Maneuver	221	0	-				-	-	-	-	-	-
Stage 1	665	0	-				-	-	-	-	-	-
Stage 2	473	0	-				-	-	-	-	-	-
Approach	EB						NB			SB		
HCM Control Delay, s/							0			1.11		
HCM LOS	D											
Minor Lane/Major Mvm	nt	NBT	NBR I	EBLn1 l	EBLn2	SBL	SBT					
Capacity (veh/h)		-	-	221	-	887	-					
HCM Lane V/C Ratio		-	-	0.201	-	0.05	-					
HCM Control Delay (s/	veh)	-	-	25.3	0	9.3	-					
HCM Lane LOS		-	-	D	Α	Α	-					
HCM 95th %tile Q(veh))	-	-	0.7	-	0.2	-					

Intersection													
Int Delay, s/veh	163.8												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations				*		7	*	^			^	7	
Traffic Vol, veh/h	0	0	0	225	0	15	550	130	0	0	105	15	
Future Vol, veh/h	0	0	0	225	0	15	550	130	0	0	105	15	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None	-	-	Stop	-	-	None	-	-	Yield	
Storage Length	-	-	-	0	-	150	800	-	-	-	-	420	
Veh in Median Storage,	,# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	_	-	0	_	_	0	_	_	0	_	
Peak Hour Factor	97	97	97	97	97	97	97	97	97	97	97	97	
Heavy Vehicles, %	2	2	2	7	7	7	2	2	2	2	2	2	
Mvmt Flow	0	0	0	232	0	15	567	134	0	0	108	15	
	-	-	•						•	-	, , ,		
Major/Minor				Minor1			Major1		N	//ajor2			
Conflicting Flow All				1376	-	134	108	0	-	-	-	0	
Stage 1				1268	-	-	-	-	-	-	-	-	
Stage 2				108	-	-	-	-	-	-	-	-	
Critical Hdwy				6.47	-	6.27	4.12	-	-	-	-	-	
Critical Hdwy Stg 1				5.47	-	-	-	-	-	-	-	-	
Critical Hdwy Stg 2				5.47	-	-	-	-	-	-	-	-	
Follow-up Hdwy				3.563	-	3.363		-	-	-	-	-	
Pot Cap-1 Maneuver				~ 156	0	902	1482	-	0	0	-	-	
Stage 1				258	0	-	-	-	0	0	-	-	
Stage 2				904	0	-	-	-	0	0	-	-	
Platoon blocked, %								-			-	-	
Mov Cap-1 Maneuver				~ 96	0	902	1482	-	-	-	-	-	
Mov Cap-2 Maneuver				~ 96	0	-	-	-	-	-	-	-	
Stage 1				~ 159	0	-	-	-	-	-	-	-	
Stage 2				904	0	-	-	-	-	-	-	-	
Approach				WB			NB			SB			
HCM Control Delay, s/v	,		\$ 6	689.52			7.22			0			
HCM LOS			Ψ	F			1.22			J			
110111 200				•									
Minor Lane/Major Mvm	t	NBL	NBTV	VBLn1V	VBI n2	SBT	SBR						
Capacity (veh/h)		1482		96	902								
HCM Lane V/C Ratio		0.383	_	2.409	0.017	<u> </u>	_						
HCM Control Delay (s/v	ιeh)	8.9		734.9	9.1	_	_						
HCM Lane LOS	(CII)	6.9 A	-φ -	734.9 F	9.1 A		-						
HCM 95th %tile Q(veh)		1.8	-	21.1	0.1	-							
		1.0		Z 1.1	0.1	-	_						
Notes													
~: Volume exceeds cap	acity	\$: De	lay exc	eeds 3	00s	+: Com	putatior	Not D	efined	*: All	major v	olume i	n platoon

Intersection												
Intersection Delay, s/veh	21.4											
Intersection LOS	С											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	•	T.	7	•	7	*	*	T.	*	•	T.
Traffic Vol, veh/h	5	165	5	40	170	215	5	245	30	255	285	5
Future Vol, veh/h	5	165	5	40	170	215	5	245	30	255	285	5
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	179	5	43	185	234	5	266	33	277	310	5
Number of Lanes	1	1	1	1	1	1	1	1	1	1	1	1
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	3			3			3			3		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	3			3			3			3		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	3			3			3			3		
HCM Control Delay, s/veh	18.2			16.8			23			25.3		
HCM LOS	С			С			С			D		
Lane		NBLn1	NBLn2	NBLn3	EBLn1	EBLn2	EBLn3	WBLn1	WBLn2	WBLn3	SBLn1	SBLn2
Vol Left, %		100%	0%	0%	100%	0%	0%	100%	0%	0%	100%	0%
Vol Thru, %		0%	100%	0%	0%	100%	0%	0%	100%	0%	0%	100%
Vol Right. %		0%	0%	100%	0%	0%	100%	0%	0%	100%	0%	0%

Lane	NBLn1	NBLn2	NBLn3	EBLn1	EBLn2	EBLn3	WBLn1	WBLn2	WBLn3	SBLn1	SBLn2
Vol Left, %	100%	0%	0%	100%	0%	0%	100%	0%	0%	100%	0%
Vol Thru, %	0%	100%	0%	0%	100%	0%	0%	100%	0%	0%	100%
Vol Right, %	0%	0%	100%	0%	0%	100%	0%	0%	100%	0%	0%
Sign Control	Stop										
Traffic Vol by Lane	5	245	30	5	165	5	40	170	215	255	285
LT Vol	5	0	0	5	0	0	40	0	0	255	0
Through Vol	0	245	0	0	165	0	0	170	0	0	285
RT Vol	0	0	30	0	0	5	0	0	215	0	0
Lane Flow Rate	5	266	33	5	179	5	43	185	234	277	310
Geometry Grp	6	6	6	6	6	6	6	6	6	6	6
Degree of Util (X)	0.014	0.628	0.071	0.014	0.443	0.012	0.106	0.424	0.49	0.644	0.676
Departure Headway (Hd)	8.992	8.492	7.792	9.392	8.892	8.192	8.751	8.251	7.551	8.36	7.86
Convergence, Y/N	Yes										
Cap	397	423	458	379	404	434	408	434	474	430	458
Service Time	6.78	6.28	5.58	7.19	6.69	5.99	6.533	6.033	5.333	6.14	5.64
HCM Lane V/C Ratio	0.013	0.629	0.072	0.013	0.443	0.012	0.105	0.426	0.494	0.644	0.677
HCM Control Delay, s/veh	11.9	24.7	11.2	12.3	18.6	11.1	12.6	17	17.4	25.2	25.7
HCM Lane LOS	В	С	В	В	С	В	В	С	С	D	D
HCM 95th-tile Q	0	4.2	0.2	0	2.2	0	0.4	2.1	2.6	4.4	4.9