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Sensitivity of Rodel Roundabout Delay Estimates to Input Parameters

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SENSITIVITY OF RODEL ROUNDABOUT DELAY ESTIMATES TO INPUT PARAMETERS

By

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Ryerson University

2006

A Thesis

Presented to Ryerson University

In partial fulfillment of the
Requirements for the degree of
Master of Applied Science
in the Program of Civil Engineering

Toronto, Ontario, Canada, 2009

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ABSTRACT

SENSITIVITY OF RODEL ROUNDABOUT DELAY ESTIMATES TO INPUT PARAMETERS

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Master of Applied Science in Civil Engineering (2009)

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Modern roundabouts are developed to increase the traffic capacity and decrease the traffic delay. They are popular around the world and are becoming common in Canada and the United States. A great design of a roundabout is to achieve the minimum delay. According to the research papers regarding the delay at roundabouts, it is expected the vehicle delay, the stop ratio at various traffic volumes, and the level of saturation of roundabouts are smaller than the amount of similar parameters on un-signalized intersections. The purpose of this thesis is clarification and measurement of the geometric parameters through the RODEL software to depict their influence on the sensitivity of roundabout delay. This study has been done through creation and analysis of numerous tables and graphs for various traffic volumes and peak periods. Furthermore, the required accuracy of each parameter in estimating delay of a planned roundabout is determined.

The outcome of this analysis indicates the effects of the geometric parameters on the roundabout delay. While the Half Width, Entry Width, and Flare Length have the greatest influence on the delay, the Entry Radius, Entry Angle (PHI), and Inscribed Circle Diameter have the least influence.

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CHAPTER ONE: INTRODUCTION

1.1 Research Background

Transportation plays a significant role in everybody's life. People travel to different destinations for various purposes. The main reasons for travelling are categorized into the personal, social, business, or economical basis. People use different transportation facilities depending on their time and other constraints, as well as the related costs. The main form of daily transportation is by motor vehicles because these provide quick access to destinations, convenient use of private or public vehicles, and are affordable to most people. However, there are some disadvantages involved in use of motor vehicles including traffic congestion and delay, air pollution, noise nuisance, and land consumption, especially in large and crowd cities. Working on reduction of the delay time has been one of the greatest attempts to resolve the disadvantages of travelling by motor vehicles in Canada and the United States during the past decade.

Since the time automobile was invented, the struggle to control and manage the traffic has been in place. In the early 1900's, the traffic crisis was most prevalent in the United States and Europe. In that era, traffic circles were considered as a useful treatment to resolve the traffic problem. However, in 1950's, the traffic circles with the size and other characteristics of that time did not represent a permanent solution to the traffic congestion because of increasing the traffic volume and the delay time at rotator junctions (Flannery and Datta, 1996). The old techniques of designing the traffic circle intersections improved in 1990's and converted to a vital solution to control traffic and minimize the delay time.

Delay minimization is an essential goal of transportation planning to improve the performance of planning models. Delay ignorance may cause an inaccurate value predictions and incorrect estimation of the travel time. Since the delay time may have direct influence on the level of service or loss of productivity, it could significantly impact on economic implications as well. The requirements to run a planning model and improve the accuracy of travel time estimation are geometry information of the assigned roundabout and its traffic volume (Ding, 2007).

1.2 Scope and Objectives

Generally, roundabouts are one of the best remedies to resolve the traffic flow problems. These problems include how to deal with conflicting manoeuvres and speed reduction in sensitive areas. Slow or congested traffic would be the result of poor performance of an improper roundabout. Therefore, understanding the behaviour of roundabouts in different demand patterns is essential in order to prevent using them in inappropriate conditions. An example of inappropriate conditions is high traffic volume on one approach that may affect the traffic of the entry vehicles of the other approaches. In this case, the roundabout responds to the total traffic volume fairly reasonable but excessive delays would appear on some approaches due to the unbalanced traffic volume (Krogscheepers and Roebuck, 1997).

As it was mentioned earlier, roundabouts have become a subject of interest in American and Canadian transportation societies over the past decade. There are various situations for implementation of roundabouts throughout the United States and Canada. In many states, roundabouts are considered as a practical alternative to two-way stop controlled intersections (TWSC), all-way stop controlled intersections (AWSC), and in some cases for signalized and

complex freeway interchanges. Since roundabouts are becoming more popular than the above noted intersections in the United States, existence of a complete guideline regarding the design, construction, operation and maintenance, and safety of the roundabouts is necessary. There are a few guidelines such as the Federal Highway Administration (FHWA) and the Highway Capacity Manual (HCM) available in the United States (Flannery, et. al., 2000). The Ministry of Transportation of Ontario (MTO) is willing to create a complete and applicable guideline regarding the modern roundabouts. This guideline is expected to highlight the importance and sensitivity of the delay time in details and how to manage this parameter through the best design and operation of the roundabouts.

The objective of this study is to evaluate the sensitivity of the geometric parameters of roundabouts in respect with the minimal delay time at various traffic volumes and different time-frames. Also, this thesis aims to reveal the required accuracy for each parameter.

The analyzed traffic volume includes the Average Annual Daily Traffic (AADT) of three existing roundabouts within the Region of Waterloo, as well as the AADT of 2000, 3000, and 4000 vehicles. The time-frames of morning, noon, and after noon were taken into account to identify the impact of traffic peak hours in the study.

1.3 Thesis Structure

This thesis includes nine chapters. Chapter 1 offers an introduction, importance of a roundabout, and the scope and objective of this study. Chapter 2 is devoted to the birth of modern roundabout, its characteristics, advantages and disadvantages compared to traditional

intersections, and the traffic flow problems. Chapter 3 is dedicated to the research papers regarding the delays associated with intersections and roundabouts. Chapter 4 is expressly focused on roundabouts' capacity and delays which is the main theme of this study. Chapter 5 is about the roundabout operation and related analysis tools/models. Chapter 6 introduces the RODEL characteristics as a software program for design and operation of a roundabout with minimal delay. Chapter 7 presents the analysis methodology of this thesis and outlines the data related to three existing roundabouts that have been used in this study. Chapter 8 is solely dedicated to the analysis and the achieved results with respect to the sensitivity of each geometric parameter and the related delay time in different traffic volumes and time-frames. Chapter 9 is the thesis closure, which includes the conclusions and recommendations for further improvements in design and operation of modern roundabouts.

CHAPTER TWO: MODERN ROUNDABOUTS

2.1 Birth of Modern Roundabouts

Old traffic circles called roundabouts have existed as long as cars. The history of roundabouts goes back to the 19th century and their actual design is originated from large traffic circles in France. Eugène Hénard brought up the attitude of an intersection in Paris where all the road users, mainly horses and coaches, had to make a circulatory movement around an obstacle in the center in 1903. Afterward, more roundabouts were built in Europe, especially in Great Britain. Roundabouts became common in Europe during the 1980's and 1990's (Daniels and Wets, 2005). Figures 2.1 and 2.2 show plan and picture, respectively, of the Triumph Arc roundabout in Paris, France. There are 12 approaching streets that flow the traffic into the circle.

Figure 2.1 Triumph Arc Roundabout Plan, Paris, France (GoogleMaps, 2009)

Figure 2.2 Triumph Arc Roundabout Picture, Paris, France (GoogleImages, 2009)

The first one-way rotary system (roundabout) for motor vehicle traffic in the United States was put into operation at Columbus Circle in New York City in 1905 (Persaud, et. al., 2000). Subsequently, other roundabouts were added to the United States transportation system. Previously, the roundabouts design criteria gave the priority to the high speed merging and weaving vehicles. Thus, congestion and high crash experiences occurred in the traffic circles and caused loss of confidence and finally led to roundabout failure in the United States after the mid 1950's. For example, traffic circles in New Jersey were removed after receiving complains about their poor performance and high level of crashes that occurred because of long delay (Sisiopiku and Oh, 2001). The experience of utilizing traffic circles in the transportation system of many countries, in addition to the United States, failed due to increasing traffic volume and high crashes. Consequently, many of those traffic circles were replaced by traffic signals (Robinson, et al., 2000).

Modern roundabouts were borne, as a remedy to the problems associated with the old traffic circles, in the United Kingdom (U.K.) in 1966. There was a mandatory rule called "Give-

Way” applied at all circular intersections in U.K. This rule makes entering traffic to give priority or yield to the circulating traffic. The main application of the “Give-Way” rule was to prevent locking up the circular intersection by not letting vehicles enter the intersection until they find enough gaps to enter (MDOT, 2009). Reducing traffic congestion, and enhancing roundabout capacity and safety are the result of applying this rule at modern roundabouts (Taekratok, 1998).

The performance of modern roundabouts in other countries were motivating enough to generate a recent version of roundabout in the United States and Canada (Sisiopiku and Oh, 2001). Modern roundabouts have become significantly popular in these countries over the past decade. It is one of the best remedies to overcome the intersection problems (Gates and Maki, 2002). Figure 2.3 reflects the development process of modern roundabouts between the years 1900 to 2000.

Figure 2.3 Development Process of Modern Roundabout between 1900-2000 (Taekratok, 1998)

The next section consists of description of modern roundabout characteristics and its advantages against signalized and un-signalized intersections.

2.2 Modern Roundabout Characteristics

As it was mentioned, the modern roundabouts were originally developed in the United Kingdom in 1960's and nowadays they are widely used all around the world. One of the main differences of the modern roundabouts and old traffic circles is the design speed. According to the guidelines of 1940s or even older, the design speed for old traffic circles was 25 mph or more. This speed for the modern roundabouts is considered about 15 mph to provide a higher level of safety. In this respect, the motorists entering a roundabout have to adjust their speed with a deflection curve to slow down the travel speed and keep weaving to a minimum (Persaud, et. al., 2000).

The reason for installation of signal or stop signs at old traffic circles was to reduce the number of crashes due to the high travel speed. The size characteristic of the modern roundabouts causes a lower travel speed for entry or circulating vehicles and removes the need to utilize signal or stop signs. Drivers approaching a roundabout must reduce their speed, look for a safe gap within the circulating traffic flow, and always be ready to stop for crossing pedestrians and bicycles. Movement of vehicles in modern roundabouts especially in the United States and Canada is counter-clockwise around the central island. Modern roundabout can be defined as a circular intersection with characteristics that promote safe and efficient traffic flow (IIHS, 2009). Figure 2.4 shows a large old traffic circle that has been transformed to a modern roundabout.

Figure 2.4 Old traffic circle transformation to modern roundabout (Ourston, 2009)

Yield-at-entry, deflection, and flare are three other features that distinguish roundabouts from traffic circles. These features are defined below and the designer should be aware of them as three major characteristics of the modern roundabouts (Hicks, 1996).

1. Yield-at-entry allows circulating flow vehicles to continue moving through a roundabout towards their appointed exits and eliminates congestion that may occur while right-of-way is given to the entering (Hicks, 1996). Yield-at-entry can increase the capacity and decrease the delay of roundabouts by 10% and 40% respectively (Sisiopiku and Oh, 2001).

Figure 2.5 The Yield sign at Roundabout (GoogleImage, 2009)

2. Deflection is defined by the curve around the central island that causes drivers to slow down through the roundabout. This factor increases the safety by reducing the circulating speed (Hicks, 1996).

Figure 2.6 Deflection in roundabout (GoogleImage, 2009)

3. Flare represents widening of the approach in order to increase the capacity (Hicks, 1996).

Figure 2.7 Flare in roundabout (GoogleImage, 2009)

2.3 Modern Roundabout Advantages and Disadvantages

The following table depicts the summary of modern roundabout's advantages and disadvantages.

Table 2.1 Modern Roundabouts Advantages and Disadvantages (Taekratok, 1998)

<i>CATEGORY</i>	<i>ADVANTAGE</i>	<i>DISADVANTAGE</i>
<i>SAFETY</i>	<ul style="list-style-type: none"> -There are a reduced number of conflict points compared to uncontrolled intersection; - Lower operational speeds yield less severe and fewer accidents; -Slower speeds because of intersection geometry reduce accidents. 	<ul style="list-style-type: none"> - Since roundabouts are unfamiliar to the average driver in the U.S. there is likely to be an initial period where accidents increase; - Signalized intersections can pre-empt control for emergency vehicle.
<i>CAPACITY</i>	<ul style="list-style-type: none"> -Traffic yields rather than stops, often resulting in the acceptance of smaller gaps; -For isolated intersections, roundabouts should give higher capacity than signalized intersections due to the omission of lost time at signalized intersection. 	<ul style="list-style-type: none"> -Where the coordinated signal network can be used, a signalized intersection will increase the overall capacity of the network; -Signals may be preferred at intersections that periodically operate at higher than designed capacities.
<i>DELAY</i>	<ul style="list-style-type: none"> -Overall delay will probably less than for an equivalent volume signalized intersection; -During off-peak, signalized intersections with no retiming produce unnecessary delays to stopped traffic when gaps on the other flow are available. 	<ul style="list-style-type: none"> - Drivers may not like the geometric delays which force them to divert their cars from straight paths; -when queuing develops, entering drivers tend to force into the circulating streams with shorter gaps. This may increase delays on other legs and the number of accidents.
<i>COST</i>	<ul style="list-style-type: none"> -In general, less right of way is required; -Maintenance costs of signalized intersections include electricity, maintenance of loops, signal heads, controller, timing plans (roundabout maintenance includes only landscape maintenance, illumination, and occasional sign replacement); -Accident costs are low due to the low number of accidents and severity. 	<ul style="list-style-type: none"> -construction costs may be higher; -In some locations, roundabouts may require more illumination, increasing cost.
<i>PEDESTRIAN BICYCLISTS</i>	<ul style="list-style-type: none"> -A splitter island provides a refuge for pedestrians that will increase safety; -At low speed and low traffic volume, roundabouts should improve safety for bicyclists. 	<ul style="list-style-type: none"> -A splitter island may cause difficulty to people using wheelchair; -Tight dimensions of roundabouts create an uncomfortable feeling to bicyclists; -Longer paths increase travel distances for both pedestrians and bicyclists; -Roundabouts may increase delay for pedestrians seeking acceptable gaps to cross.

The main advantages of replacing the traditional intersections and nonconforming traffic circles with modern roundabouts are enhancing the safety and capacity. Speed reduction while approaching, entering, and moving in a roundabout because of the deflected entry is a good example of higher safety exertion through roundabouts. Furthermore, yielding at the roundabout entry provides a higher capacity than the traditional intersections. This higher capacity in turn, causes less delay to occur (IIHS, 2009). Therefore, Modern roundabout can be a great alternative to resolve the intersection problems. The best performance of a roundabout can be achieved in the following circumstances (Niederhauser, et. al., 1997):

- *Location* which is the area with some/all of the following descriptions:
 - ❖ High accident history or heavy left turn movements;
 - ❖ Capacity or noticeable delay problem at intersection;
 - ❖ Intersections in which traffic signals were requested but not warranted;
 - ❖ Intersection that meets warrant for traffic signal; and
 - ❖ Four way stop intersection.
- *Traffic volume* with:
 - ❖ Significant delay on minor road;
 - ❖ Heavy left turn movements that cause traffic signals less efficient.
- *Right of way consideration*:
 - ❖ Generally desired more for single-lane roundabout than an un-signalized intersection;

- ❖ Roundabout usually needs less entry lanes in comparison with signal controlled intersection.
- *Site conditions:*
 - ❖ An intersection with more than four approaches or unusual geometry;
 - ❖ Major roads intersect at “Y” or “T” junctions;
 - ❖ Intersection with anticipation of high growth of future traffic;
 - ❖ Intersection in which the U-turn is desirable;

2.4 Modern Roundabout as a Solution for the Traffic Flow Problems

The major traffic flow problems are high delay, long queue length, and high left-turn volume. These problems can be resolved through replacement of the problematic intersections with roundabouts.

2.4.1 High Delay Intersections

Roundabout is known as a good alternative to signalized or un-signalized intersections. The reason is that in signalized intersections, a certain stream of vehicles is legally allowed to proceed through at a time. In un-signalized intersections, the vehicles have to stop at stop signs as well. These could cause a high delay and capacity loss when the intersection is clear between signal phases and stops respectively. Utilizing roundabouts eliminates this problem because the entry vehicles can use the available gaps within the circulating flow and reduce the delay time. Therefore, the modern roundabouts are more efficient than controlled intersections (KYTC, 2005).

2.4.2 Long Queue Lengths

Widened roads are usually required to provide the necessary storage area for vehicles waiting at traffic signals. Roundabouts allow the use of fewer lanes between intersections because continuous flows produce less delay. This improvement reduces the queue lengths and minimizes the operational problems at downstream intersections or where queuing space is limited (KYTC, 2005).

2.4.3 High Left-Turn Volume Intersections

In signalized intersections, separate turning phases may be required to accommodate left-turning vehicles. When a high volume of left-turning vehicles is anticipated, those phases must be increased. In this case, a longer cycle length to complete the signal phases is required. Therefore, more delay to the movement on other lanes occurs. A roundabout may accommodate left-turning vehicles more efficiently due to its characteristic in terms of lower delay (KYTC, 2005).

CHAPTER THREE: RONDABOUT DELAY PROCESSING

The consequence of increasing the traffic congestion in large urban areas is deterioration of the traffic management. However, in many cases the transportation planning models, which estimate the appropriate traffic volume on transportation networks, are incapable of considering the realistic travel time delays at intersections. Considering the effect of delays at intersections and roundabouts are important to present the model output more accurate and the travel time more predictable (Ding, 2007).

There are many techniques for delay estimation at intersection approaches. However, limited researches have been done to assess the consistency of various models estimations. Incapability of delay estimation models is based on their type of data requirements and algorithms. The problem with the delay estimation techniques is that they have their own limitations and come up with different accuracies. For instance when the ratio of volume over capacity (V/C) approaches to 1.0, steady-state models tend to estimate large delays while over-saturation models yield delays close to zero. Therefore, making a balance between simplicity and accuracy is essential in choosing the right modeling technique (Ding, 2007).

Control delay and queue delay are two main components of determining the intersection delays. Control delay occurs due to the vehicles acceleration or deceleration at intersection because of the traffic control. Queue delay or stop delay is difficult to estimate because it is affected by random arrival of vehicles from different approaches (Ding, 2007).

Queue and traffic delays are principals for the performance measures in order to determine the Level of Service (LOS) of an intersection. These performance measures are based on assumptions about the description of the traffic arrival and service processes. Therefore, the

delay models at intersections are defined according to deterministic and stochastic components to illustrate the traffic flow properties (Rouphail, et. al., 1996).

3.1 Deterministic and Stochastic Components of Delay

The deterministic (often called uniform) component of traffic delay is defined by fluid theory when demand and service are treated as continuous variables. These variables are expressed by traffic flow rates which differ with the time and locality. The deterministic queuing models are traditional applications to foresee delays at signalized intersections (Rouphail, et. al., 1996).

The stochastic (random or overflow) components of delay are defined on steady-state queuing theory. This theory describes the traffic arrival time and service time distribution. Then, proper queuing model would be applied to this distribution in order to analyze the performance measures. The stochastic approach is mainly used for un-signalized intersections. However, the models which include both deterministic and stochastic components of traffic performance are more desirable in traffic signals because they are very applicable in a wide range of traffic intensities. The pioneer work in this respect started by Webster in 1958 and since then, it has been incorporated in control and analysis of many intersections around the world (Rouphail, et. al., 1996).

Generally, there are two methods of delay estimation at intersections based on the steady-state and time-dependent theories. Webster and HCM 2000 methods are the examples of the delay estimation with steady-state theory, whereas, Akcelik and Kimber and Hollis methods employ time-dependent theory (Sermpis, 2007). The following sections describe some of the researches regarding delay estimation.

3.1.1 Webster Model

Webster operated a series of experiments on pre-time isolated intersection in 1958. This model is based on the number of arrivals in a certain time interval and follows a known distribution, which does not change over the time. This model employs two traffic signal timing strategies: signal phase splits and minimum delay cycle length equation (Cheng, et. al., 2003).

Webster could illustrate signal phase both theoretically and experimentally. According to his study, signals should have their critical phases timed for equal degree of saturation for a given cycle length in order to minimize the delay. Equation 3.1 shows the minimum delay cycle length (Cheng, et. al., 2003):

$$C_0 = \frac{1.5 L + 5}{1 - Y} \quad \text{Equation 3.1}$$

Where,

C_0 is the optimal minimum delay cycle length;

L is the total lost time within the cycle;

Y is the sum of the critical phase flow ratios.

In developing the minimum delay cycle length, the effective green times of the phases are assumed in the flow ratio for given γ values as shown in Equation 3.2 (Cheng, et. al., 2003):

$$d = \frac{C(1-\lambda^2)}{2(1-\lambda x)} + \frac{x^2}{2q(1-x)} - 0.65 \left(\frac{C}{q^2} \right)^{\frac{1}{3}} x^{(2+5\lambda)} \quad \text{Equation 3.2}$$

Where,

d is the average delay per vehicle (sec/veh);

C is the cycle length;

q is the flow (veh/sec);

λ is the proportion of the effectiveness green with respect to cycle length (sec);

x is the degree of saturation ($x=g/\lambda s$, where s is the saturation flow (veh/sec) and g is the effective green).

This formula contains three parts. The first part estimates the average delay in a uniform queuing model. The second term considers the additional delay for randomness of vehicle arrivals. And the third term is an empirical correction factor to provide a closer fit for all flow values (Cheng, et. al., 2003). This formula is a clear example of a model that corresponds to the both deterministic and stochastic components of the traffic performance. “The Webster’s formula is one of the most fundamental and frequently referenced equations of its kind” (Ding, 2007).

3.1.2 Tanner Model

Tanner studied the delay on minor stream based on the gap acceptance model in 1962 (Sisiopiku and Oh, 2001). He considered the following assumptions in his study (Tanner, 1962):

- β_1 : vehicles on major road of an intersection arrive randomly and pass through within not less than β_1 time;
- β_2 : vehicles on minor road of an intersection arrive randomly and pass through within not less than β_2 time;
- α : duration of time (gap) that a vehicle cannot enter the junction after the previous vehicle on the major road has entered.

According to Tanner's study, the traffic on the major road of an intersection consists of a random and single stream of arriving vehicles which cannot pass through the junction at intervals shorter than the time β_1 . Thus, the vehicles on the major road form a queuing process. In this situation, the average delay is calculated using the Equation 3.3 which is known as the Tanner formula (Tanner, 1962).

$$w_1 = \frac{1}{2} (\beta_1^2 q_1) / (1 - \beta_1 q_1) \quad \text{Equation 3.3}$$

Where,

w_1 is the average delay per vehicle;

q_1 is an average rate per time unit for major road;

q_2 is an average rate per time unit for minor road.

Vehicles on the minor road of an intersection behave similarly. Their arrival traffic is randomly and at an average rate of q_2 per time unit. This traffic cannot pass through the junction at intervals shorter than β_2 . A vehicle on minor road can pass through the major road traffic in the gap time between $(\alpha$ and $\alpha + \beta_2)$. However, in major road traffic, two vehicles can pass through a gap time of $(\alpha + \beta_2)$ and $(\alpha + 2\beta_2)$ and so on (Tanner, 1962).

3.1.3 Kimber and Hollis Model

Kimber and Hollis method, which was based on the time-dependent delay model, developed in 1979 to improve intersection delay. An appropriate transformation technique was implemented to attain an approximate empirical solution to the problem of oversaturated conditions (Pretorius and Troutbeck, 2004).

When traffic flow approaches or exceeds the capacity rate for a limited time, the steady-state model assumptions violate one another because a state of stochastic equilibrium cannot be acquired. Therefore, the time-dependent approach can be used to improve the traffic performance estimation in both under-saturated and over-saturated situations. Kimber and Hollis introduced a procedure to calculate the expected queue length for a system with random arrivals. The initial queue could be defined by its distribution. This method has been adopted by many countries including U.S., Canada, Australia, and Europe and used in their capacity guidelines (Rouphail, et. al., 1996).

“Kimber and Hollis gave detailed derivations of queue length and delay formulas, and the resulting formula can be applied to treat not only signalized intersections, but also roundabout. The random and oversaturation delay can be estimated from Equation 3.4” (Han, 1996).

$$D_r = \frac{1}{2}(\sqrt{A^2 + B} - A) \quad \text{Equation 3.4}$$

$$\text{Where, } A = \frac{(QT)^2 + (4C - QT)(qT + 2\lambda r_0)}{2(QT - 2C)},$$

$$B = \frac{2C(qT + 2\lambda r_0)}{QT - 2C}$$

D_r is the rate of delay for random and oversaturation delay;

Q is the traffic capacity on the stream;

T is the length of a time period over which q and Q are assumed to be constant;

C is the cycle time (sec);

q is the average arrival rate for a stream (pcu/s);

λ is the proportion of the cycle that is effectively green for a stage;

r_0 denotes the random and oversaturation component.

The Kimber and Hollis model did not address the accuracy issues of their formulas completely. Their concern was only probabilities of fixed queue lengths and they did not consider the mean of both queue lengths and waiting times. They used brief formulas to calculate the probabilities which may lead to significant errors in the mean of queue lengths (Taylor, 2002). Since the Kimber and Hollis model was based on simplified variables, they suggested using it as an equation to determine the delay of minor traffic (Sisiopiku and Oh, 2001).

3.1.4 Crown Model (RODEL)

Barry Crown developed a program called RODEL (Roundabout Delay) in 1988. This software was created with specific attention to the features that affect on optimization of the roundabout design. The RODEL characteristics can be summarized in the following points (Johnson, 2007):

- Achieving solutions for even difficult design situations;
- Quickly test “what-if” scenarios by changing the input parameters;
- Optimizing the design in a short period of time rather than accepting the first design with meeting the minimum criteria;
- Capability to run in different confidence levels to improve the safety factor of traffic predictions;
- Derive the optimum layout within the conflicting constraints of delay and safety;
- Reduce land and service cost.

3.1.5 Akcelik Model (SIDRA)

Akcelik's study was regarding Signalized and Un-signalized Intersections Design and Research Aid (SIDRA). The purpose of using this Australian software was analyzing roundabout capacity and performance. SIDRA was "an extension of traditional gap acceptance and queuing theory" (Sisiopiku and Oh, 2001).

According to Akcelik (1997), there are two situations for roundabout capacity, which are related to the gap-acceptance theory. The blocked period's situation happens when the approaching vehicles cannot find an acceptable gap in the circulating flow. The unblocked periods take place when queued or un-queued vehicles can get into the circulation road as soon as gap becomes available in the circulating flow. Blocked and unblocked periods work similar to the red and green signal timing. The total of the blocked and unblocked times called gap acceptance cycle time. Therefore, the gap acceptance capacity in roundabout can be stated similar to traffic signal capacity (Solomon, 2007).

According to Akcelik in 1998, the most important factor that affects on roundabout capacity and performance was an unequal lane operation. In this respect, lane by lane analysis was a model to analyze the roundabout capacity. Application of this model was for travel forecasting and determining lane operation through balancing the delay on the approach lanes. This model provides the opportunity for each vehicle to choose the approach lanes which allow entering the roundabout with the least delay (Solomon, 2007).

3.1.6 Highway Capacity Model (HCM)

Roundabout capacity analysis is based on the gap acceptance theory in the HCM 2000. "Gap-acceptance models can adequately predict roundabout capacity within certain ranges of

traffic flows. However, outside these ranges gap-acceptance models can over-predict capacity at low traffic flows and under-predict capacity at high traffic flows. At low flows, vehicles often react to enter a major traffic stream more slowly” (Ourston, 2009). The inadequacy of this model is that there are no calculations for control delay; also the analysis is limited to the roundabouts with only one-lane (Stanek and Milam, 2004).

The single-lane roundabouts are similar to the TWSC intersections and have the priority and non-priority traffic streams. A driver on a minor approach must check the major traffic stream to find an acceptable gap before entering the priority traffic stream. Gap acceptance theory has three features regarding traffic streams (Flannery, et. al., 2000):

- Headway distribution, which is the availability of gap in conflicting or circulating stream;
- Gap requirements for entering drivers;
- Follow-up time, which is duration of time in which the drivers follow each other into larger gaps.

The gap acceptance model has been adopted by many countries such as the United States, Canada, and Australia (Flannery, et. al., 2000).

CHAPTER FOUR: ROUNDABOUT CAPACITY AND DELAY

In recent decades, roundabouts have been proved as a viable intersection treatment on both urban and rural roadways. Design of roundabouts is a precise procedure with consideration of capacity, safety, and cost aspects. These principles provide engineers the flexibility to modify a design and meet the related requirements (Furtado, 2004).

According to National Cooperative Highway Research Program (NCHRP) 3-65, when roundabouts operate at their capacity, there are usually lower vehicle delays than as it occurs at the other types of intersections. Capacity analysis is based on gap acceptance theory and/or empirical relationships among the geometric parameters of a roundabout (Rodegerdts, 2004).

4.1 Roundabout Capacity

The capacity of every entry to a roundabout is defined as the maximum number of vehicles that can enter into the roundabout in a certain period of time and under the existing traffic and roundabout's geometric conditions. An operational analysis establishes a specific set of geometric parameters and traffic flow rate for the design hour volume (DHV) of each entry. Also, peak hour analysis is a critical appraisal to assess the performance level of the roundabout and its individual components. The yield point of a roundabout is directly related to the capacity analysis because the approach capacity is determined at the yield point (WisDOT, 2008).

The capacity of a roundabout as a whole depends on different features. These features include the capacity of each approach or entry (computed as a traffic function on the other approaches), the interaction of the traffic streams, and geometry of the intersection (WisDOT, 2008).

The maximum flow rate at a roundabout entry depends on two conditions: the circulating flow and the geometric elements. Lower circulating flow allows driver to enter the roundabout without causing any significant delay. Larger gaps in the circulating flow let more than one vehicle to enter the roundabout. By increasing the circulating flow, the size of the gaps in the circulating flow decreases. Consequently, the number of vehicles entering the roundabout would decrease, as well (WisDOT, 2008).

Regarding the geometric elements, the ones with highest effect on determination of the capacity are the entry width, number of lanes at each approach, the flare length, and the width of the circulatory roadway. The other elements, the inscribed circle diameter and the entry angle (ϕ), have minor effect on capacity (WisDOT, 2008).

4.2 Capacity Analysis

There are three factors to determine the capacity performance of a roundabout: degree of saturation, delay, and queue length (Robinson and Rodegerdts, 2001).

4.2.1 Degree of Saturation

The ratio of the demand at the roundabout entry over the entry capacity is described as the degree of saturation. Although there is not any source to specify an exact amount for the degree of saturation for an entry lane, there are several sources recommending it less than 0.85 in order to have a satisfactory operation. Any amount of degree of saturation over 0.85 could cause the roundabout operation get worse in a short period of time because queue may form and delay begins to increase (Robinson and Rodegerdts, 2001).

4.2.2 Delay

Delay is a standard parameter to find out the performance of an intersection. According to the Highway Capacity Manual, delay is known as the principal measure of efficiency for all types of intersections through determining the level of service (Robinson and Rodegerdts, 2001).

4.2.3 Queue Length

Queue length is an indicator that reflects the proper design of the geometric parameters for a roundabout approaches. Equation 4.1 represents the procedure of calculating an approximate 95th-percentile queue. The equation is valid when the volume to capacity ratio right before and after the study period is not greater than 0.85 (Robinson and Rodegerdts, 2001).

$$Q_{95} = 900T * \left[\frac{vx}{cm,x} - 1 + \sqrt{\left[1 - \frac{vx}{cm,x}\right]^2 + \frac{\left[\frac{3600}{cm,x}\right]\left[\frac{vx}{cm,x}\right]}{150T}} \right] * \left[\frac{cm,x}{3600}\right] \quad \text{Equation 4.1}$$

Where,

Q_{95} is for the 95th-percentile queue (veh);

vx is the flow rate for the movement, x (veh/hr);

cm,x is the capacity of the movement, x (veh/hr);

T is for the analysis time period (hr, $T=0.25$ for 15-minute period).

4.3 Roundabout Delay

4.3.1 Control Delay

Control delay is a period of time a driver spends in queuing situation and waits for an acceptable gap in the circulating flow while at the front of the queue. The formula to calculate control delay calculation is illustrated in the Equation 4.2 (Robinson and Rodegerdts, 2001):

$$d = \frac{3600}{c_{m,x}} + 900T * \left[\frac{vx}{c_{m,x}} - 1 + \sqrt{\left[\frac{vx}{c_{m,x}} - 1 \right]^2 + \frac{\left[\frac{3600}{c_{m,x}} \right] \left[\frac{vx}{c_{m,x}} \right]}{450T}} \right] \quad \text{Equation 4.2}$$

Where,

D is the average control delay (sec/veh);

vx is the flow rate for movement, x (veh/hr);

$c_{m,x}$ is the capacity of movement, x (veh/hr);

T is for the analysis time period, (hr., $T=0.25$ for a 15-minute period).

Control delay increases exponentially based on the volumes while approaching capacity. Therefore, any small change in the volume causes a significant impact on delay. In order to achieve an accurate delay analysis under conditions close or greater than saturation, the following critical factors should be taken into account (Robinson and Rodegerdts, 2001):

- *The effect of residual queues:* when roundabout entries are operated near or over capacity situation, significant residual queues can be created. These residual queues must be considered between consecutive time periods.

- *The metering effect of upstream oversaturated entries:* when an entry located at upstream of the concerned entry is being operated over capacity, the circulating volume at the downstream entry will not flow properly and as per demand. Consequently, the capacity of the downstream entry should be considered more than what it is found through the actual demand analysis.

Average control delay in a particular lane is related to the capacity of that lane and its degree of saturation. As it is reflected in Equation 4.2, the control delay is estimated based on the assumption of the demand less than capacity for the period of analysis. The length of the analysis period has a significant effect on the average control delay when the degree of saturation is greater than about 0.9. In most cases, the recommended analysis period is 15 minutes. If demand gets over capacity during a 15-min period, the calculated control delay may not be accurate. Furthermore, the over-capacity flow conflicts with the downstream entry movements in over-saturated situations (Robinson, et. al., 2005).

4.3.2 Delay Components

Delay components in roundabouts are known in two categories: queuing delay and geometric delay (Hicks, 1996).

4.3.2.1 Queuing delay

Queuing delay is defined as the drivers' waiting time to find an acceptable gap and enter into circulating traffic. In order to calculate the queuing delay, it is important to know the minimum delay when the entering traffic flow is very low. Equations 4.3 and 4.4 show the minimum delay and queuing delay respectively (Hicks, 1996).

$$w_h = \frac{e^{\lambda(t_a - \tau)} - t_a - \frac{1}{\lambda} + \frac{\lambda\tau^2 - 2\tau\Theta}{2(\lambda\tau + 1 - \Theta)}}{(1 - \Theta)q_c} \quad \text{Equation 4.3}$$

Where,

t_a , τ , Θ , and λ are the gap acceptance parameters;

q_c is the circulating flow (veh/sec);

w_h is the minimum delay when entering traffic is very low (sec/veh).

$$w_m = w_h + 900 T \left[Z + \sqrt{Z^2 + \frac{mX}{CT}} \right] \quad \text{Equation 4.4}$$

Where,

w_m is the average delay (sec/veh);

T is the duration of flow period (hr);

$Z = X - 1$;

X is the degree of saturation for entry lane ($X = Q_m / C$);

Q_m is the entry lane flow (average arrival demand (hr));

C is the entry lane capacity (veh/hr);

m is the delay parameter ($m = w_h C / 450$).

The Equation 4.4 is a time-dependent formula which is derived from the steady-state conditions. The second term of this equation reflects presence of a queue in the entry lane. It is a suitable formula to use at near-capacity and over-saturated conditions (Flannery, et. al., 2000).

4.3.2.2 Geometric delay

Geometric delay could be described in two ways (Hicks, 1996):

1) Geometric delay is the delay that requires drivers to reduce their speed, enter into the roundabout, and then accelerate to match up the normal speed.

2) Geometric delay is the delay that makes drivers to slow down and stop at the end of the queue, accept a gap, start moving again and enter the roundabout, and then accelerate to reach normal operating speed.

The average geometric delay can be computed through the Equation 4.5 (Hicks, 1996):

$$d_g = p_s d_s + (1 - p_s) d_u \quad \text{Equation 4.5}$$

Where,

p_s is the proportion of the entering vehicles that must stop;

d_s is the geometric delay for the vehicles that must stop;

$(1-p_s)$ is the proportion of vehicles that do not need to stop;

d_u is the geometric delay for the vehicles that do not need to stop.

“Geometric delay is different for each traffic movement; left-turn, right-turn, and straight on at each approach and each should be calculated separately” (Hicks, 1996).

Total average delay is the sum of the queuing delay and the geometric delay. The total average delay per vehicle from an approach must be estimated based on the related delay for proportion of vehicles making each movement (right-turn, straight-on, left-turn) (Hicks, 1996).

4.4 Roundabout Capacity Analysis

In order to verify the capacity, knowing the delay and queuing models is necessary. The HCM method, as a gap acceptance model, is limited to analysis of only single-lane roundabouts and does not present any guidance on delay, queuing, or level of service. The FHWA method, which covers both single-lane and double-lane roundabouts, is derived from the UK empirical model. The UK empirical model, which assumes values for the six geometric input parameters, appears to be a reasonable design tool (Rodegerdts, 2004).

UK model calculates the delay during operation at or near capacity in addition to measurement of the capacity itself. Other theories, mentioned in the Chapter Three, provide satisfactory results when operation is either well below capacity or well above it. Research works has shown that when traffic loads increase through capacity, practical/real estimation of the capacity could be achieved. This estimation is based on the actual build up of queues and delays by developing a transformation that gradually moves delay from the stage of the steady state theory (i.e. good at low demand levels) to the stage of the deterministic theory (i.e. accurate when demand is well above capacity) (KSDOT, 2001).

The ratio of volume to capacity (V/C) and the level of service (LOS) are the evaluation factors for roundabouts. The V/C ratio defines comparison of the entering traffic volume from an approach to its capacity. Therefore, by increasing the circulating roadway traffic, the capacity of an approach would decrease. Traffic engineers consider a reserve capacity for an approach to correspond this case. The V/C ratio over 0.85 reflects a potential need for additional capacity on an approach. Consideration of too much reserved capacity may result designing an unsafe roundabout. Thus, keeping a balance between the reserved capacity and geometry of a roundabout is important to have a safe and precise operational capacity (Ritchie, 2006).

CHAPTER FIVE: ROUNDABOUT OPERATION

A roundabout is perfectly designed when its operational efficiency is at highest level possible. Average delay in a roundabout is an index to verify the operational efficiency. A minor change in geometry/design of a roundabout may result in noticeable changes in its operation (Mehmood and Easa, 2006).

Since utilizing roundabouts is becoming more popular in the United States and Canada, investigation of how to determine their level of operational performance is important.

5.1 Traffic Operation

A roundabout minimizes conflicting traffic streams because it allows the streams to safely enter and pass through the roundabout, and exit to the desired directions. The bases of traffic operation in a roundabout are the driver behaviour and the traffic capacity. The geometric elements of a roundabout could influence the driver behaviour and lead them while approaching, entering, and traveling through the roundabout (Robinson, et. al., 2000).

The width of the approach roadway, the entry radius, and the approaching traffic volume govern the driver's speed. As drivers approach the yield line, they must check for conflicting vehicles already on the circulating roadway and recognize when it is the safest time to enter the circulating stream. The inscribed circle diameter affects the radius of the driver's path. This geometry element determines the speed of drivers traveling on the roundabout. The width of the circulatory roadway reflects the number of vehicles that may travel side by side on the roundabout (Robinson, et. al., 2000).

The capacity of a properly designed roundabout is provided at the yield line. This is determined by a number of geometric parameters. The entry width, half width, and flare length

have the most effect on the capacity analysis. Reduction of these elements would decrease the capacity. On multi-lane roundabouts it is important to balance the traffic volume. In imbalance situation, some lanes may be overloaded while others are under-used (Robinson, et. al., 2000).

Downsizing the geometry of a roundabout causes lowering the speed of the entry and circulating traffic, which in turn provides a higher level of safety. On the other hand, the capacity of roundabout is negatively affected when the traffic speed is lowered. Hence, a great design of a roundabout is a matter of optimal balancing of safety provisions and operational performance (Robinson, et. al., 2000).

5.2 Existing Roundabout Operation (Field Observation)

As discussed in the previous section, operational efficiency and safety of a roundabout could be optimized through designing it with proper geometric elements. However, evaluation of the existing roundabouts regarding their safety and performance efficiency is another necessity to ensure that an appropriate geometry is in place.

The analyst should investigate and determine whether changes to an existing roundabout design are needed. Vehicle delay and queuing can be measured through standard traffic engineering techniques. Furthermore, the analyst is required to perform a qualitative assessment of the roundabout performance. In this respect, the following questionnaire reflects the conditions that may lead to implement corrective design measures. If the answers are negative, no corrective actions are required (Robinson, et. al., 2000).

- Do drivers stop unnecessarily at the yield point?
- Do drivers stop unnecessarily within the circulating roadway?
- Do any vehicles pass on the wrong direction around the central island?
- Do queues from an external blockage back up into the roundabout from an exit road?

- Do smaller vehicles encroach on the truck apron?
- Is there evidence of damage to any of the signs in the roundabout?
- Is there any pedestrian activity on the central island?
- Do pedestrians and cyclists fail to use the roundabout as intended?
- Are there tire marks on any of the curb surfaces to indicate vehicle contact?
- Is there any evidence of minor accidents, such as broken glass, pieces of rim, etc., on the approaches or the circulating roadway?
- Is there any gravel or other debris collected in non-traveled areas that could be a hazard to bicycles or motorcyclists?
- Are the vehicle speeds appropriate?

5.3 Roundabout Operational Analysis Tools

There are two major methods to examine the operational performance of roundabouts: empirical regression technique and gap acceptance method. The empirical regression technique deals with the geometric features which impact driver behaviour. The gap acceptance method is based on the idea that when an individual driver, at a controlled intersection, intends to enter or cross an uncontrolled traffic stream, should wait for an acceptable gap. In case of a roundabout, the entering driver must yield to circulating traffic. Once a driver approaches the yield bar, he/she begins to scan the traffic to his/her left and enters into the circulating traffic when finds an acceptable gap (Flannery and Datta, 1996).

There is particular software programs used to design and analyze roundabout capabilities based on various theoretical methods and input parameters. The main purpose of using any

related software is to determine the sensitivity of roundabout operational parameters (Kinzel and Trueblood, 2004).

The basis of these software programs are analytical or empirical models. The Highway Capacity (HCS), Synchro and SIDRA are analytical software, which are designed based on the gap acceptance theory. RODEL and ARCADY are the empirical software, which are based on the field data and develop relationship between geometric features and performance measures including delay and capacity (Kinzel and Trueblood, 2004) (Fleming, 2008).

5.3.1 Analytical Models

5.3.1.1 HCS/Synchro

“The methodology of Highway Capacity Manual, implemented in the HCS and Synchro programs, can be considered the “official” analysis method of the United States practitioners. It uses the following two parameters to compute roundabout operations in addition to the circulating conflicting volume” (Kinzel and Trueblood, 2004):

- Critical Gap (t_c): the minimum time interval in the circulating traffic stream that allows one vehicle to enter the roundabout. A driver would enter the roundabout when faced with any gap equal or greater than the critical gap. Therefore, increasing the critical gap would decrease approach capacity;
- Follow-Up Time (t_f): the time between the entries of two vehicles into the roundabout using the same gap in circulating traffic under a condition of continuous

queuing on the approach. Therefore, increasing the follow-up time would decrease the approach capacity.

The approach capacity is calculated as a mathematical function of critical gap and follow up time, as well as conflicting circulating traffic volumes. The limitations of this method are its insensitivity to the roundabout geometric parameters and its applicability to only single-lane roundabouts (Kinzel and Trueblood, 2004).

5.3.1.2 SIDRA

SIDRA as Australian software works with the following four critical parameters to model the roundabout operations (Kinzel and Trueblood, 2004).

- Critical Gap (t_c): the minimum time interval in the circulating traffic stream that allows one vehicle to enter the roundabout. A driver would enter the roundabout when faced with any gap equal or greater than the critical gap. Therefore, increasing the critical gap would decrease approach capacity;

- Follow-Up Headway (t_f): the time between the entries of two vehicles into the roundabout using the same gap in circulating traffic under a condition of continuous queuing on the approach. Therefore, increasing the follow-up time would decrease the approach capacity;

- Intra-Bunch Headway: “Average headway between vehicles in a moving queue (minimum headway in a traffic stream). This is used in order to define moving queues (bunches) of vehicles for the purpose of modeling headway distribution of vehicles” (Akcelik, 2004) ;

➤ O-D Factor: A factor to improve the prediction of capacities under medium to heavy circulating traffic flow (Akcelik, 2005).

5.3.2 Empirical Models

5.3.2.1 *ARCADY*

ARCADY (Assessment of Roundabout Capacity and Delay), Australian software, is developed for predicting capacities, queue lengths, delays, and accident risk at roundabouts. ARCADY is a user friendly tool to aid the traffic engineer in designing new roundabouts, as well as assessing the outcome of modification of the existing designs. ARCADY calculations can be applied to roundabouts with up to seven arms. Consequently, it can easily model the busiest and most complex junctions. The program can even estimate the shape of the peak according to the amount of available data (TRL, 2009).

5.3.2.2 *RODEL*

RODEL is a software program to develop relationships between the geometric parameters and performance of a roundabout. RODEL stands for Roundabout Delay (NYSDOT, 2000).

This software was developed based on the delay and queuing information of 86 roundabouts in the United Kingdom in 1970s. The research on 35 roundabouts was reviewed in U.K. in 1997 and the results confirmed that the original equations worked perfectly and no changes on those equations were required (Ourston, 2009).

The methodology of RODEL is based on the empirical model, which is noticeably different from the gap-acceptance models. It links the roundabout approach capacity to the

following six geometric parameters, in addition to the circulating conflicting flow (Kinzel and Trueblood, 2004).

- Entry Width;
- Half Width;
- Effective Flare Length;
- Entry Radius;
- Entry Angle;
- Inscribed Circle Diameter.

These parameters are shown in figure 6.1.

After gathering and reviewing the data of the site, intersecting roadways, and the traffic volumes, RODEL performs a geometric analysis of the proposed roundabout. The outcome of this analysis is the required geometry for accurate function of that roundabout within the desired capacity. It also determines if the geometry of an existing roundabout works appropriately in terms of capacity and delay (Ritchie, 2006).

RODEL has been utilized for the study implemented through this thesis regarding the Sensitivity of the geometric parameters in terms of delay. More information about the methodology and details of the RODEL are presented in Chapter 6.

CHAPTER SIX: DESIGN PRINCIPLES

6.1 RODEL Software

RODEL (ROundabout DELay) is software for design of roundabouts, developed by Barry Crown of the Staffordshire County Council in England (Ourston, 2009). Improving the quality of design, reducing the design time, reducing land and service costs, and deriving the best layout within the major constraints including cost, delay, and safety are the main purposes of this program. The great characteristic of this software is that it generates geometry of a roundabout before preparation of any drawing. Consequently, it saves a lot of time required for design of a roundabout because checking the amount and relationship of the parameters are through the software instead of repeated drawings (Crown, 2002).

RODEL operates in two modes called Mode 1 and Mode 2. Sets of entry geometry including value of queue, delay, RFC (Ratio of Flow to Capacity) are generated in Mode 1 to define the best fit for each approach. Mode 2 generates the concurrent display of input and output in order to repeatedly modify and redefine the selected geometry. “Displaying queues and delays in every 1 or 2 seconds, enables the designer to develop a “feel” for the design to converge an optimum layout within the constraints” (Crown, 2002).

RODEL, as a geometric analysis tool to design a roundabout, is utilized after obtaining and reviewing the information regarding roadways (approaches), site conditions, and traffic volumes. The application of RODEL to design a roundabout, with various alternatives to achieve the best design, is based on the initial lane geometry and the required capacity to handle the measured traffic volume. The calculations are implemented by using empirical equations which are observed and checked with the field data (Ritchie, 2007).

6.2 Roundabout Geometric Parameters

There are six key geometric parameters with most influence on the capacity, delay, traffic speed, and safety at a roundabout. These parameters are: Half Width, Entry Width, Effective Flare Length, Entry Radius, Inscribed Circle Diameter, and Entry Angle. Figure 6.1 illustrates the RODEL parameters.

Figure 6.1 Key Parameters of a Roundabout (WisDOT, 2008)

The definition and impact of each geometric parameter on design of a roundabout are discussed in Chapter 8.

6.3 Confidence Level

Confidence Level (CL) describes the level of certainty on accuracy of the delays and queues. These parameters are calculated based on flow/volume (V) and capacity (C). There may be error on measurement of the flow and capacity, which would affect on the accuracy of the delays and queues. The error on both capacity and flow is taken into account and is called Confidence Level in RODEL (Lenters , 2003).

The standard confidence level used in the industry is 50%. However, the 85th percentile confidence level is used by the designers to check the robustness of a design in terms of capacity and come up with a practical design (WisDOT, 2008).

Confidence level 85 is defined by the point representing 85% of Ratio of Flow to Capacity (RFC) which is laid on the steep part of the following curve (Figure 6.2). As it is shown, this part of the curve is the most sensitive section to any small changes in capacity or flow (Crown, 2002). Roundabout Design with confidence level of 85 causes avoiding a gross underestimation of delay (NYSDOT, 2000).

Figure 6.2 Confidence Level illustration (Crown, 2002)

The 50th percentile confidence level is the usual confidence level used in all the programs that analyze traffic volumes in terms of operations and level of service. This confidence level (50%) is a default value in RODEL as well. The confidence level used in RODEL can be adjustable to check whether the proposed design will be adequate under recommended geometric parameters. In RODEL, to get the certainty of having adequate roundabout capacity during the peak hours, there is an option called “design check” which adjusts the confidence level from 50th to 85th or even 95th percentile (Ritchie, 2007).

6.4 Level of Service

Level of Service (LOS) is a term to describe the operating conditions of an intersection or a roundabout. Verification of LOS in RODEL is derived from the average delay, in seconds, for each approach of a roundabout. Level of Service varies from LOS “A” to LOS “F”. LOS “A” represents complete and flexible operation (within 10 seconds delay) for a driver, whereas, LOS “F” reflects very long delay in operation of a roundabout. It is considered as failed performance (Ritchie, 2007). Table 6.1 shows the level of service criteria for roundabouts.

Table 6.1 Level of Service Criteria at Roundabouts (Whitlock, 2007)

ROUNDBOUT LEVEL OF SERVICE	AVERAGE CONTROL DELAY (SEC/VEH)
A	DELAY OF 0-10 SECONDS
B	DELAY OF 10-15 SECONDS
C	DELAY OF 15-25 SECONDS
D	DELAY OF 25-35 SECONDS
E	DELAY OF 35-50 SECONDS
F	DELAY OF MORE THAN 50 SECONDS

An acceptable LOS depends on the context of the roundabout. In busy downtown areas LOS “E” could be acceptable, while it may be unacceptable at rural intersections with low traffic volume. According to many articles, LOS “D” with the average delay of 25 to 35 seconds is considered as an acceptable LOS (WisDOT, 2008), (Ritchie, 2007), (Whitlock, 2007), (Lakkundi, et. al., 2004), and (Stanek and Milam, 2004). In this study, LOS “C” with the average delay of 15 to 25 seconds is the limit for proper operation of the studied roundabouts.

CHAPTER SEVEN: PARAMETER PROCESSING STRATEGIES

The methodology of this study contains two parts. The first part was inputting the data of three existing roundabouts into the RODEL, monitoring the obtained delays and LOS in excel sheets, and creating six tables of results for each roundabout (18 tables in total) which are depicted in the Appendix A. Then, different sets of graphs were produced to analyze the results of this study and find the sensitivity of each parameter.

The second part was inputting the records of the created tables into the MiniTab program. MiniTab is a statistical program that improves the clarity of the products by analyzing the data. This program has been used to verify the data analysis. It also confirms the attained sensitivities of the graphs and calculates the mean value of each parameter in order to determine the accuracy of each precision. The mean value of the average delay related to each parameter represents the best performance of that parameter.

Appendix “B” includes tables showing the mean value of the average delay times for each roundabout with different AADTs, time-frames, and confidence levels. These values correspond to a range of each geometric parameter amount which is a percentage of its original data (with 5% intervals). This is the check range that designer should consider to verify the optimum amount of each parameter. The precision of each parameter is determined through the closeness of the amount of that parameter, based on the mean average delay, to the original data. It has been calculated as: $100 - \text{check range}$ in Appendix B. The level of accuracy for each parameter is discussed in chapter eight.

7.1 Database

The delay investigation took place on three existing roundabouts in the Region of Waterloo. The required data for this purpose consists of the traffic volume of each roundabout in three time-frames including 8.30-9.30 AM, 12.30-1.30 PM, and 4.30-5.30 PM (peak hours). In addition, their geometric information including entry width, flare length, half width, entry radius, entry angle (ϕ), and inscribed circle diameter are required. These geometric features vary based on the number of roundabouts' approaches and the number of lanes on each approach.

7.1.1 Erb/Erbsville/Ira-Needle Roundabout

This roundabout is located at the intersection of Erb Street, Erbsville Road, and Ira-Needle Boulevard in the Region of Waterloo. Figure 7.1 represents the configuration of this roundabout.

Figure 7.1 The Proposed Scheme of the Erb/Erbsville/Ira-Needle Roundabout
(GoogleMaps, 2009)

The Erb/Erbsville/Ira-Needle roundabout is a two-lane roundabout on each entry (flares from one-lane to two-lane). It has four approaches. Figure 7.2 illustrates this roundabout after

construction. According to the Regional Municipality of Waterloo Roundabout Count, the Annual Average Daily Traffic (AADT) at this intersection in the morning, noon, and afternoon peak hours are 1688, 1029, and 1865 vehicles, respectively (Waterloo, 2006).

Figure 7.2 Erb/Erbsville/Ira-Needle Roundabout after construction(Ourston, 2009)

7.1.2 Ira-Needle/Trussler/Highview Roundabout

This roundabout is located at the intersection of Ira-Needle Boulevard, Trussler Road, and Highview Drive. Figure 7.3 represents the proposed configuration of this roundabout.

Figure 7.3 The proposed scheme of Ira-Needle/Trussler/Highview Roundabout
(GoogleMaps, 2009)

Ira-Needle/Trussler/Highview roundabout has two-lane entry on north-south direction and one-lane entry on east-west direction. It has four approaches. Figure 7.4 illustrates this roundabout after construction. According to the Regional Municipality of Waterloo Turning Movement Count, the AADT at this intersection in the morning, noon, and afternoon peak hours are 1205, 575, and 1461 vehicles, respectively (Waterloo, 2007).

Figure 7.4 Ira-Needle/Trussler/Highview Roundabout (Ourston, 2009)

7.1.3 Congestoga/Can-Amera Roundabout

This roundabout is located at the intersection of Can-Amera Parkway and Congestoga Boulevard. Figure 7.5 represents the layout of this roundabout.

Figure 7.5 The proposed layout of Congestoga/Can-Amera Roundabout
(GoogleMaps, 2009)

The Congestoga/Can-Amera is a two-lane roundabout with three approaches. Figure 7.6 illustrates this roundabout after construction. According to the Regional Municipality of Waterloo Turning Movement Count, the AADT at this intersection in the morning, noon, and afternoon peak hours are 841, 1096, and 1631 vehicles, respectively (Waterloo, 2007).

Figure 7.6 Congestoga/Can-Amera Roundabout (Ourston, 2009)

7.2 Analysis

One of the significant advantages of using roundabout rather than traditional intersections is delay reduction. This reduction is the outcome of having yield control signs instead of stop signs or traffic signals. Furthermore, the flare of a roundabout causes increasing the traffic capacity and decreasing the delay.

As explained in the previous chapters, there are six geometric parameters involved in designing a roundabout by RODEL. In order to have a precise design and minimize the delay, knowing the sensitivity and accuracy of each geometric parameter is vital.

The sensitivity and precision of the roundabout geometric parameters are analyzed through the following stages:

1. The available geometric data of the above noted three roundabouts in the Region of Waterloo have been taken into account as the original data. A deviation of up to $\pm 50\%$, with 5% intervals, has been considered to determine the sensitivity and precision of each parameter through the RODEL. However, the range of variation was limited to the practical range of each parameter. Then, the results are graphed using Excel. The graphs reflect the affiliation between the delay and each parameter. The practical range is illustrated in Table 7.1.

Table 7.1 The practical range for geometric parameters of roundabout (Robinson, et al., 1993)

PARAMETER	PRACTICAL RANGE
ENTRY WIDTH	4-15 meters
HALF WIDTH	2-7.3 meters
FLARE LENGTH	1-100 meters
ENTRY RADIUS	6-100 meters
ENTRY ANGLE	10-60 degrees
INSCRIBED CIRCL DIAMETER	15-100 meters

2. The available Annual Average Daily Traffic (AADT) of each roundabout has been taken into account as the original traffic data for the peak hours of each time frame. It is obvious that more traffic volume causes more delay if the capacity of an intersection or a roundabout is insufficient. This stage of analysis is to find out the impacts of different traffic volumes on the delay. In this respect, four sets of traffic volumes have been considered to monitor the related delays. The first set of the traffic volume was the original traffic data of the roundabouts at the Region of Waterloo. The second, third, and fourth sets have been set at AADT of 2000, 3000, and 4000 vehicles respectively. This stage reflects the association between the different traffic volumes and each geometric parameter to find the amount of delay through RODEL.

The above noted stages have been completed with two confidence levels of 50 and 85 to cover both the industry standard and the most sensitive confidence level, as it is mentioned in Chapter 6.

CHAPTER EIGHT: TEST RESULTS AND ANALYSIS

There is a reverse relationship between traffic capacity and delay at any intersection (the more capacity provided, the less traffic delay occurs). Delay ignorance may cause wrong/impossible predicting of the travel time and lead to an inaccurate model output. Therefore, delay minimization is one of the most essential goals of transportation planning applications to improve the performance of planning models (Ding, 2007).

8.1 Parameters Analysis

The following sections reflect the analysis outcomes of the parameters which are prioritized based on their sensitivities. The roundabout design parameters, prioritized based on their sensitivities, are: *Half Width*, *Entry Width*, *Flare Length*, *Entry Radius*, *Entry Angle (Phi)*, and *Inscribed Circle Diameter*.

For the analysis purpose, two sets of graphs have been created for each roundabout. Each graph includes different curves that represent the sensitivity of each parameter within the morning, noon, and afternoon peak hours. The conclusions of this study have come from the comparison of those curves shown in the final graphs of this chapter.

8.1.1 Half Width

Half Width, which is defined as the width of approach roadway is one of the most sensitive parameters and has the most impact on the capacity and delay on a roundabout. Figures 8.1 and 8.2 illustrate the sensitivity of this parameter in different traffic volumes and time-frames. Every graph includes different curves and each curve reflects the relationship between the traffic volume and the average delay. These graphs consist of more than 109 and 82 data

points for the studied roundabouts with four and three approaches, respectively. Each data point is the Half Width parameter of every approach of the roundabouts on different deviations from the original data within the practical range.

Figure 8.1 Half Width for all three roundabouts with confidence level 50

Figure 8.2 Half Width for all three roundabouts with confidence level 85

As it is shown on the graphs the Half Width parameter does not have any adverse impact on the roundabouts operation with the original traffic volume and the AADT of 2000 vehicles. The LOS is “A” which means having less than 10 seconds of delay.

The sensitivity of this parameter changes significantly by increasing the traffic volume from 2000 to 3000 vehicles and more, especially with the confidence level of 85. An example of this situation is on Erb/Erbsville/Ira-Needle roundabout that at AADT of 3000 vehicles and confidence level of 50, the occurred LOS is “C”, “B”, and “A” for the morning and noon peak hours; and “B” and “A” for the afternoon peak hours. Therefore, the LOS “C” causes the curve changes to become noticeable in the graph for the morning and noon hours. The LOS at the AADT of 3000 vehicles and confidence level of 85 varies between “F” to “A” for different time-frames. The occurred LOS at the same roundabout with the AADT of 4000 vehicles and confidence level of 85 are “F” for all the cases. The LOS changes, which represent the sensitivity of this parameter, are shown in Tables 8.1, 8.2 and 8.3 for the studied roundabouts.

Table 8.1 The LOS Changes for the Erb/Erbsville/Ira-Needle Roundabout
ERB/ERBSVILLE/IRA-NEEDLE ROUNDABOUT

HLAF WIDTH	ERB/ERBSVILLE/IRA-NEEDLE ROUNDABOUT				
	CL	AADT	LEVEL OF SERVICE		
			8.30-9.30 AM	12.30-1.30 PM	4.30-5.30 PM
	50	ORIGINAL	A	A	A
		2000	A	A	A
		3000	C,B,A	C,B,A	B,A
		4000	F	F,E	F
	85	ORIGINAL	A	A	A
		2000	A	A	A
		3000	F,E,D,C,B	F,E,D,C,B,A	F,E,D,C,B,A
		4000	F	F	F

Table 8.2 The LOS Changes for the Ira-Needle/Trussler/Highview Roundabout

HLAF WIDTH	IRA-NEEDLE/TRUSSLER/HIGHVIEW ROUNDABOUT				
	CL	AADT	LEVEL OF SERVICE		
			8.30-9.30 AM	12.30-1.30 PM	4.30-5.30 PM
	50	ORIGINAL	A	A	A
		2000	A	A	A
		3000	B,A	A	A
		4000	F	F,E,D	F,E,D
	85	ORIGINAL	A	A	A
		2000	A	A	A
		3000	F,E,D,C	C,B,A	C,B,A
4000		F	F	F	

Table 8.3 The LOS Changes for the Congestoga/Can-Amera Roundabout

HLAF WIDTH	CONGESTOGA/CAN-AMERA ROUNDABOUT				
	CL	AADT	LEVEL OF SERVICE		
			8.30-9.30 AM	12.30-1.30 PM	4.30-5.30 PM
	50	ORIGINAL	A	A	A
		2000	A	A	A
		3000	F	F	F
	85	ORIGINAL	A	A	A
		2000	D,C,B,A	C,B,A	E,C,D,B,A
		3000	F	F	F

By reviewing the mean value $\bar{x}$ of the average delays in the above graphs, the required check range and the accuracy for each roundabout are as follows:

Erb/Erbsville/Ira-Needle Roundabout

- Check range: 22.5%-30%
- Confidence: 70%-77.5%

Ira-Needle/Trussler/Highview Roundabout

- Check range: 15%-25%
- Confidence: 75%-85%

Congestoga/Can-Amera Roundabout

- Check range: 22.5%-30%
- Confidence: 70%-77.5%

8.1.2 Entry Width

Entry Width is defined as the width of entering roadway at the point that intersects with the outside curb of the circulating roadway. Entry Width is another vital parameter in terms of sensitivity and has a significant impact on the capacity and delay on a roundabout. Figures 8.3 and 8.4 illustrate the sensitivity of this parameter in different traffic volumes and time-frames. Every graph includes different curves and each curve reflects the relationship between the traffic volume and the average delay. These graphs consist of more than 81, 145, and 116 data points for the roundabouts with four and three approaches, respectively. Each data point is the Entry Width parameter of every approach of the studied roundabouts on different deviations from the original data within the practical range.

Figure 8.3 Entry Width for all three roundabouts with confidence level 50

Figure 8.4 Entry Width for all three roundabouts with confidence level 85

As it is shown on the graphs the Entry Width parameter does not have any adverse impact on the roundabouts operation with the original traffic volume and the AADT of 2000 vehicles.

The LOS is “A” which means having less than 10 seconds of delay. However, the LOS varies from “A” to “B”, “C”, “D”, “E” and even “F” with increasing the AADT to 3000 and 4000 vehicles and with confidence levels of 50 and 85. As an example, the occurred LOS on Ira-Needle/Trussler/Highview roundabout at AADT of 3000 vehicles and confidence level of 85, are “E”, “C”, “B”, and “A” for the morning and noon peak hours, and is “A” for the afternoon peak hours. Therefore, the LOS “E” and “C” make the curves changes become noticeable in the graph for the morning and noon time-frames. The LOS at the same roundabout with the AADT of 4000 vehicles and confidence level 85 is “F” for the morning and noon peak hours and varies from “F” to “B” for the afternoon time-frame. The LOS changes for the studied roundabouts are shown in the Tables 8.4, 8.5, and 8.6.

Table 8.4 The LOS Changes for the Erb/Erbsville/Ira-Needle Roundabout

ENTRY WIDTH	ERB/ERBSVILLE/IRA-NEEDLE ROUNDABOUT				
	CL	AADT	LEVEL OF SERVICE		
			8.30-9.30 AM	12.30-1.30 PM	4.30-5.30 PM
	50	ORIGINAL	A	A	A
		2000	A	A	A
		3000	A	A	A
		4000	F,E,D,C	D,C,B	F,E,D,C,B
	85	ORIGINAL	A	A	A
		2000	A	A	A
		3000	A	A	A
4000		F	F	F	

Table 8.5 The LOS Changes for the Ira-Needle/Trussler/Highview Roundabout

ENTRY WIDTH	IRA-NEEDLE/TRUSSLER/HIGHVIEW ROUNDABOUT				
	CL	AADT	LEVEL OF SERVICE		
			8.30-9.30 AM	12.30-1.30 PM	4.30-5.30 PM
	50	ORIGINAL	A	A	A
		2000	A	A	A
		3000	A	A	A
		4000	F,E,D,C,B	F,E,D,C,B	F,E,D,C,B,A
85	85	ORIGINAL	A	A	A
		2000	A	A	A
		3000	E,C,B,A	E,C,B,A	A
		4000	F	F	F,E,D,C,B

Table 8.6 The LOS Changes for the Congestoga/Can-Amera Roundabout

ENTRY WIDTH	CONGESTOGA/CAN-AMERA ROUNDABOUT				
	CL	AADT	LEVEL OF SERVICE		
			8.30-9.30 AM	12.30-1.30 PM	4.30-5.30 PM
	50	ORIGINAL	A	A	A
		2000	A	A	A
		3000	F	F,E,D	F,E,D,C
85	85	ORIGINAL	A	A	A
		2000	C,B,A	A	A
		3000	F	F	F

By reviewing the mean value $\bar{x}$ of the average delays in the above graphs, the required check range and the accuracy for each roundabout are as follows:

Erb/Erbsville/Ira-Needle Roundabout

- Check range: 5%-20%
- Confidence: 80%-95%

Ira-Needle/Trussler/Highview Roundabout

- Check range: 7.5%-15%
- Confidence: 85%-92.5%

Congestoga/Can-Amera Roundabout

- Check range: 5%-10%
- Confidence: 90%-95%

8.1.3 Flare Length

Flare Length is defined as the transition distance between the point of half a width and the yield line. It is the third sensitive parameter in determining the average delay. Flare length and Entry Width parameters are related. The longer the Flare length is, the shorter delay occurs. The shorter delay cause increasing the capacity of the roundabout and higher speed of the entry vehicles. This higher speed would decrease the deflection of the roundabout. Figures 8.5 and 8.6 illustrate the sensitivity of this parameter in different traffic volumes and time-frames. Every graph includes different curves and each curve reflects the relationship between the traffic volume and the average delay. These graphs consist of more than 251 and 172 data points for the roundabouts with four and three approaches, respectively. Each data point is the Flare Length

parameter of every approach of the studied roundabouts on different deviations from the original data within the practical range.

Figure 8.5 Flare Length for all three roundabouts with confidence level 50

Figure 8.6 Flare Length for all three roundabouts with confidence level 85

As it is shown on the graphs, the Flare Length parameter does not have any adverse impact on the operation of the roundabouts with the original traffic volume. The LOS is “A”

which means having less than 10 seconds of delay. However, the LOS varies from “A” to “B”, “C”, “D”, “E” and even “F” with increasing the AADT on confidence levels of 50 and 85. An example of this situation is on Congestoga/Can-Amera roundabout that at AADT of 2000 vehicles and confidence level of 85, the occurred LOS is “C”, “B”, and “A” for the morning peak hours, “A” for the noon peak hours, and “B” and “A” for the afternoon peak hours. Therefore, the LOS “C” of the morning time-frame causes the curve changes become noticeable in the graph. The occurred LOS at the same roundabout with the AADT of 3000 vehicles and confidence levels of 50 and 85 are “F” for all the cases. The LOS changes for the studied roundabouts are shown in the Tables 8.7, 8.8, and 8.9.

Table 8.7 The LOS Changes for the Erb/Erbsville/Ira-Needle Roundabout

FLARE LENGTH	ERB/ERBSVILLE/IRA-NEEDLE ROUNDABOUT				
	CL	AADT	LEVEL OF SERVICE		
			8.30-9.30 AM	12.30-1.30 PM	4.30-5.30 PM
	50	ORIGINAL	A	A	A
		2000	A	A	A
		3000	A	A	A
		4000	F,E,D	F,E,D,C	F,E,D
	85	ORIGINAL	A	A	A
		2000	A	A	A
		3000	B,A	A	B,A
		4000	F	F	F

Table 8.8 The LOS Changes for the Ira-Needle/Trussler/Highview Roundabout

FLARE LENGTH	IRA-NEEDLE/TRUSSLER/HIGHVIEW ROUNDABOUT				
	CL	AADT	LEVEL OF SERVICE		
			8.30-9.30 AM	12.30-1.30 PM	4.30-5.30 PM
	50	ORIGINAL	A	A	A
		2000	A	A	A
		3000	A	A	A
		4000	F	D	D
85	85	ORIGINAL	A	A	A
		2000	A	A	A
		3000	D,C	A	A
		4000	F	F	F

Table 8.9 The LOS Changes for the Congestoga/Can-Amera Roundabout

FLARE LENGTH	CONGESTOGA/CAN-AMERA ROUNDABOUT				
	CL	AADT	LEVEL OF SERVICE		
			8.30-9.30 AM	12.30-1.30 PM	4.30-5.30 PM
	50	ORIGINAL	A	A	A
		2000	A	A	A
		3000	F	F	F
85	85	ORIGINAL	A	A	A
		2000	C,B,A	A	B,A
		3000	F	F	F

By reviewing the mean value $\bar{x}$ of the average delays in the above graphs, the required check range and the accuracy for each roundabout are as follows:

Erb/Erbsville/Ira-Needle Roundabout

- Check range: 5%-17.5%
- Confidence: 82.5%-95%

Ira-Needle/Trussler/Highview Roundabout

- Check range: 5%-10%
- Confidence: 90%-95%

Congestoga/Can-Amera Roundabout

- Check range: 5%-20%
- Confidence: 80%-95%

8.1.4 Entry Radius

Entry Radius is the radius of outside curb of the entering roadway at the point it intersects the outside curb of the circulating roadway. The analysis of the studied roundabouts shows that it is not a very sensitive parameter to determine the average delay. However, the Entry Radius is a parameter involved in designing the entry speed and the entry deflection of a roundabout. Figures 8.7 and 8.8 illustrate the sensitivity of this parameter in different traffic volumes and time-frames. Every graph includes different curves and each curve reflects the relationship between the traffic volume and the average delay. These graphs consist of more than 251 and 172 data points for the roundabouts with four and three approaches, respectively. Each data point is the Entry Radius parameter of every approach of the studied roundabouts on different deviations from the original data within the practical range.

Figure 8.7 Entry Radius for all three roundabouts with confidence level 50

Figure 8.8 Entry Radius for all three roundabout with confidence level 85

As it is shown on the graphs, the Entry Radius parameter does not have any adverse impact on the roundabouts operation with the original traffic volume and the AADT of 2000 vehicles. The LOS is "A" which means having less than 10 seconds of delay. However, the LOS varies from "A" to "B", "C", "D", "E" and even "F" with increasing the AADT to 3000 and

4000 vehicles and with confidence levels of 50 and 85. An example of this situation is on Ira-Needle/Trussler/Highview roundabout that at AADT of 3000 vehicles and confidence level of 85, the occurred LOS is “D” and “C” for the morning peak hours and it is “A” for the other time-frames. Therefore, the curve changes are noticeable only for the morning hours. The LOS results at the same roundabout with the AADT of 4000 vehicles and confidence level of 50 are “F” for the morning peak hours, “D” and “C” for the noon hours and “E” and “D” for the afternoon peak hours. The occurred LOS at the AADT of 4000 vehicles and confidence level of 85 is “F” for all the cases of this roundabout. The LOS changes for the studied roundabouts are shown in the Tables 8.10, 8.11, and 8.12.

Table 8.10 The LOS Changes for the Erb/Erbsville/Ira-Needle Roundabout

ENTRY RADIUS	ERB/ERBSVILLE/IRA-NEEDLE ROUNDABOUT				
	CL	AADT	LEVEL OF SERVICE		
			8.30-9.30 AM	12.30-1.30 PM	4.30-5.30 PM
	50	ORIGINAL	A	A	A
		2000	A	A	A
		3000	A	A	A
		4000	F	E,D	F
	85	ORIGINAL	A	A	A
		2000	A	A	A
		3000	B,A	A	B,A
		4000	F	F	F

Table 8.11 The LOS Changes for the Ira-Needle/Trussler/Highview Roundabout

ENTRY RADIUS	IRA-NEEDLE/TRUSSLER/HIGHVIEW ROUNDABOUT				
	CL	AADT	LEVEL OF SERVICE		
			8.30-9.30 AM	12.30-1.30 PM	4.30-5.30 PM
	50	ORIGINAL	A	A	A
		2000	A	A	A
		3000	A	A	A
		4000	F	D,C	E,D
85	ORIGINAL	A	A	A	
	2000	A	A	A	
	3000	D,C	A	A	
	4000	F	F	F	

Table 8.12 The LOS Changes for the Congestoga/Can-Amera Roundabout

ENTRY RADIUS	CONGESTOGA/CAN-AMERA ROUNDABOUT				
	CL	AADT	LEVEL OF SERVICE		
			8.30-9.30 AM	12.30-1.30 PM	4.30-5.30 PM
	50	ORIGINAL	A	A	A
		2000	A	A	A
		3000	F	F	F
	85	ORIGINAL	A	A	A
		2000	B,A	A	A
3000		F	F	F	

By reviewing the mean value $\bar{x}$ of the average delays in the above graphs, the required check range and the accuracy for each roundabout are as follows:

Erb/Erbsville/Ira-Needle Roundabout

- Check range: 7.5%-15%
- Confidence: 75%-92.5%

Ira-Needle/Trussler/Highview Roundabout

- Check range: 5%-15%
- Confidence: 75%-95%

Congestoga/Can-Amera Roundabout

- Check range: 5%-15%
- Confidence: 75%-95%

8.1.5 Entry Angle (Phi)

Entry Angle (Phi Angle) is defined as the angle between tangents of the direction of entry into the roundabout and the direction of the nearest exit. Its sensitivity is similar to the Entry Radius's (not very sensitive). In general, the Phi Angle has a linear relationship with the delay and the larger the Phi Angle is, the more delay occurs. Figures 8.9 and 8.10 illustrate the sensitivity of this parameter in different traffic volumes and time-frames. Every graph includes different curves and each curve reflects the relationship between the traffic volume and the average delay. These graphs consist of more than 163, 145, and 172 data points for the roundabouts with four and three approaches, respectively. Each data point is the Phi Angle parameter of every approach of the studied roundabouts on different deviations from the original data within the practical range.

Figure 8.9 Phi Angle for all three roundabouts with confidence level 50

Figure 8.10 Phi angle for all three roundabouts with confidence level 85

As it is shown on the graphs, the Phi Angle parameter does not have any adverse impact on the roundabouts operation with the original traffic volume and the AADT of 2000 vehicles. The LOS is “A” which means having less than 10 seconds of delay. However, the LOS varies from “A” to “B”, “C”, “D”, “E” and even “F” with increasing the AADT to 3000 and 4000

vehicles on confidence levels of 50 and 85. An example of this situation is on Ira-Needle/Trussler/Highview roundabout that at AADT of 3000 vehicles and confidence level of 85, the occurred LOS is “C” and “D” for the morning peak hours and it is “A” for the other time-frames. Therefore, the curve changes are noticeable only for the morning hours. The LOS at the same roundabout with the AADT of 4000 vehicles and confidence level of 50 are “F” for the morning peak hours, “D” for the noon peak hours, and “D” and “E” for the afternoon peak hours. The occurred LOS at the AADT of 4000 vehicles and confidence level of 85 is “F” for all the cases of this roundabout. The LOS changes for the studied roundabouts are shown in the Tables 8.13, 8.14, and 8.15.

Table 8.13 The LOS Changes in Erb/Erbsville/Ira-Needle Roundabout

PHI ANGLE	ERB/ERBSVILLE/IRA-NEEDLE ROUNDABOUT				
	CL	AADT	LEVEL OF SERVICE		
			8.30-9.30 AM	12.30-1.30 PM	4.30-5.30 PM
	50	ORIGINAL	A	A	A
		2000	A	A	A
		3000	A	A	A
		4000	E,F	D,E	F
	85	ORIGINAL	A	A	A
		2000	A	A	A
		3000	A	A	A,B
		4000	F	F,E	F

Table 8.14 The LOS Changes for the Ira-Needle/Trussler/Highview Roundabout

PHI ANGLE	IRA-NEEDLE/TRUSSLER/HIGHVIEW ROUNDABOUT				
	CL	AADT	LEVEL OF SERVICE		
			8.30-9.30 AM	12.30-1.30 PM	4.30-5.30 PM
	50	ORIGINAL	A	A	A
		2000	A	A	A
		3000	A	A	A
		4000	F	D	D,E
85	85	ORIGINAL	A	A	A
		2000	A	A	A
		3000	C,D	A	A
		4000	F	F	F

Table 8.15 The LOS Changes for the Congestoga/Can-Amera Roundabout

PHI ANGLE	CONGESTOGA/CAN-AMERA ROUNDABOUT				
	CL	AADT	LEVEL OF SERVICE		
			8.30-9.30 AM	12.30-1.30 PM	4.30-5.30 PM
	50	ORIGINAL	A	A	A
		2000	A	A	A
		3000	F	F	F
85	85	ORIGINAL	A	A	A
		2000	A,B	A	A
		3000	F	F	F

By reviewing the mean value $\bar{x}$ of the average delays in the above graphs, the required check range and the accuracy for each roundabout are as follows:

Erb/Erbsville/Ira-Needle Roundabout

- Check range: 7.5%-20%
- Confidence: 80%-92.5%

Ira-Needle/Trussler/Highview Roundabout

- Check range: 5%-20%
- Confidence: 80%-95%

Congestoga/Can-Amera Roundabout

- Check range: 2.5%-7.5%
- Confidence: 92.5%-97.5%

8.1.6 Inscribed Circle Diameter

Inscribed Circle Diameter (ICD) is defined as the diameter of the outside curb of the circulating roadway. It is a low sensitive parameter in terms of delay because the changes in the ICD do not significantly change the delay time. However, the ICD is an important parameter and represents as a scale factor to determine the size of a roundabout. Figures 8.11 and 8.12 illustrate the sensitivity of this parameter in different traffic volumes and time-frames. Every graph includes different curves and each curve reflects the relationship between the traffic volume and the average delay. These graphs consist of more than 251 and 172 data points for the roundabouts with four and three approaches, respectively. Each data point is the ICD parameter of every approach of the studied roundabouts on different deviations from the original data within the practical range.

Figure 8.11 Incribed Circle Parameter for all three roundabouts with confidence level 50

Figure 8.12 Incribed Circle Diameter for all three roundabouts with confidence level 85

As it is shown on the graphs, the ICD parameter does not have any adverse impact on the roundabouts operation with the original traffic volume and the AADT of 2000 vehicles. The LOS is “A” which means having less than 10 seconds of delay. However, the LOS changes from

“A” to “B”, “C”, “D”, “E” and even “F” with increasing the AADT to 3000 and 4000 vehicles and with confidence levels of 50 and 85. An example of this situation is on Erb/Erbsville/Ira-Needle roundabout that at AADT of 3000 vehicles and confidence level of 85, the occurred LOS is “B” and mainly “A”. Therefore, the curve changes are not noticeable in the graph. The LOS at the same roundabout with the AADT of 4000 vehicles and confidence level of 50 are “F”, “E”, “D”, and “C” for the morning and afternoon peak hours; and “E”, “D”, “C”, and “B” for the noon peak hours. The occurred LOS at the AADT of 4000 vehicles and confidence level of 85 is “F” and “E”. The LOS changes for the studied roundabouts are shown in the Tables 8.16, 8.17, and 8.18.

Table 8.16 The LOS Changes in Erb/Erbsville/Ira-Needle Roundabout

DIAMETER	ERB/ERBSVILLE/IRA-NEEDLE ROUNDABOUT				
	CL	AADT	LEVEL OF SERVICE		
			8.30-9.30 AM	12.30-1.30 PM	4.30-5.30 PM
	50	ORIGINAL	A	A	A
		2000	A	A	A
		3000	A	A	A
		4000	F,E,D,C	E,D,C,B	F,E,D,C
	85	ORIGINAL	A	A	A
		2000	A	A	A
		3000	A	A	B,A
		4000	F	F,E	F

Table 8.17 The LOS Changes for the Ira-Needle/Trussler/Highview Roundabout

DIAMETER	IRA-NEEDLE/TRUSSLER/HIGHVIEW ROUNDABOUT				
	CL	AADT	LEVEL OF SERVICE		
			8.30-9.30 AM	12.30-1.30 PM	4.30-5.30 PM
	50	ORIGINAL	A	A	A
		2000	A	A	A
		3000	A	A	A
		4000	F,E	F,E,D,C,B	D
	85	ORIGINAL	A	A	A
		2000	A	A	A
		3000	D,C,B,A	B,A	A
		4000	F	F	F

Table 8.18 The LOS Changes for the Congestoga/Can-Amera Roundabout

DIAMETER	CONGESTOGA/CAN-AMERA ROUNDABOUT				
	CL	AADT	LEVEL OF SERVICE		
			8.30-9.30 AM	12.30-1.30 PM	4.30-5.30 PM
	50	ORIGINAL	A	A	A
		2000	A	A	A
		3000	F	F,E,D	F,E
	85	ORIGINAL	A	A	A
		2000	B,A	A	A
		3000	F	F	F

By reviewing the mean value $\bar{x}$ of the average delays in the above graphs, the required check range and the accuracy for each roundabout are as follows:

Erb/Erbsville/Ira-Needle Roundabout

- Check range: 2.5%-5%
- Confidence: 95%-97.5%

Ira-Needle/Trussler/Highview Roundabout

- Check range: 2.5%-5%
- Confidence: 95%-97.5%

Congestoga/Can-Amera Roundabout

- Check range: 2.5%-5%
- Confidence: 95%-97.5%

8.2 AADT Threshold

As it was mentioned earlier, the analysis for this study has been done in four sets of AADTs: the existing AADT, and the AADT of 2000, 3000, and 4000 vehicles. However, there are more analysis is required to verify the maximum AADT in order to have desirable LOS. Since an acceptable LOS for this thesis is considered LOS “C”, the maximum AADT for the studied roundabouts are as follows:

- The maximum AADT for the Erb/Erbsville/Ira-Needle Roundabout is 3400 vehicles. Therefore, the average delay becomes 20.3 seconds and the LOS for signalized and un-signalized intersection occur “C”.

- The maximum AADT for the Ira-Needle/Trussler/Highview Roundabout is 3150 vehicles. Therefore, the average delay becomes 24.4 seconds and the LOS for signalized and un-signalized intersection occur “C”.
- The maximum AADT for the Congestoga/Can-Amera Roundabout is 2200 vehicles. Therefore, the average delay becomes 24.8 seconds and the LOS for signalized and un-signalized intersection occur “C”.

CHAPTER NINE: CONCLUSIONS AND RECOMMENDATIONS

9.1 Conclusions

Transportation is an unavoidable application of humans' daily life. One of the main strategies of every country is development of their transportation system because it has a major impact on their economical and social growth. This system facilitates people travelling and merchandise dispatching through the airborne, marine, and overland networks. The main feature of overland transportation system is roads network, which includes the roadways within the urban and rural areas.

Intersections are imperative points of a roads network where different roadways meet. A desirable intersection is the one that allows traffic movement with the maximum safety and capacity, as well as the minimum delay. Signalized and un-signalized intersections have been utilized in many countries since twentieth century. Delay and traffic congestion have been the main problems associated with the use of intersections. In the past decade, modern roundabouts have been brought into attention of Canada and the United States as one of the best remedies to overcome the intersection problems and improve their operational performance. Since maximum traffic capacity and minimum delay represent the greatest operational performance of a roundabout, careful data gathering and smart design of the geometric parameters are the key points to have an efficient roundabout.

The aim of this thesis is to present the most sensitive geometric parameters of roundabouts in terms of delay. It has also been intended to determine the required precision for each parameter. In this study, numerous data sets of three existing roundabouts in the Region of Waterloo have been analyzed for each geometric parameter within the context of different traffic

volumes and time-frames in two confidence levels of 50 and 85. The delay distribution graphs confirmed the level of sensitivity of each parameter. Furthermore, the accuracy of each parameter was obtained through the mean value of delay graphs for every set of traffic volume, time-frame, and confidence level. This precision (mean value) represents the best domain for the amount of each geometric parameter in terms of having the best performance within a certain range of delay.

As a result of this study, there are different levels of sensitivity for the six geometric parameters, *half width*, *entry width*, *flare length*, *entry radius*, *entry angle*, and *inscribed circle diameter* in terms of delay. The more sensitive parameters are the ones involved with queuing and more delay at each approach. Those are the entry geometric features including half width, entry width, and flare length. Once vehicles enter into the circulating traffic, the sensitivity of geometric parameters is getting smaller because less delay may occur. Therefore, entry radius, entry angle, and inscribed circle diameter are the less sensitive parameters. The range of accuracy varies from 25% for the most sensitive parameter (half width) to 2.5% for the least sensitive parameter (inscribed circle diameter).

The roundabout parameters have different types of relationship with the delay. The wider entry angle (ϕ angle) causes increasing the delay on a linear basis. The other geometric parameters have a reverse non-linear relationship with the delay. The lower amounts of each parameter results in more delay time.

9.2 Recommendations

Roundabout operation is successful when it responds to the required level of capacity and safety. Therefore, evaluation of the existing roundabouts must be a crucial concern. It is strongly

recommended measuring their delay time and queue length during the peak hours of different days and comparing the results with the acceptable delay that has been expected through the design process. If the evaluation of the existing roundabouts reflect significant unexpected delays, reviewing/revising the design criteria for future roundabouts would be necessary. In case of old roundabouts, commonly called old traffic circles, modification of their geometric parameters and converting them to modern roundabouts through a reasonable budget and construction schedule is recommended.

Development of the roundabouts is a key accomplishment in increasing the traffic capacity and decreasing the delay at intersections. This can be achieved through a comprehensive program including design, construction, operation, maintenance, and evaluation of new roundabouts. It is a wise idea to consider a pilot project within the context of this program. It is recommended constructing a few roundabouts in every town, region, or sub-division for the purpose of checking their actual performance/efficiency and demonstration of their advantages to residents/drivers. Complete development of the roundabouts can be implemented upon successful operation of the above-noted pilot projects.

The driver behaviour while driving on the roundabout approaches and circulating traffic is an important part of an appropriate operational performance. It is recommended to educate drivers parallel with implementation of the roundabouts development program. This can be achieved through various means such as introducing the roundabouts and their advantages in the media, lecturing in the community centers and any other social gatherings, distribution of informative flyers and brochures, and asking more questions in the driving licence tests.

There is a logical relationship between traffic delay and air pollution. Less delay causes less vehicle emissions. Since control of the pollution sources is a worldwide concern, further studies regarding environmental aspects of the modern roundabouts is recommended.

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APPENDIX A

GEOMETRIC PARAMETERS ANALYSIS

Half Width for Erb/Erbsville/Ira-Needle Roundabout

Timeframe	AADT Assumptions	CL	HALF A WIDTH-ERBSVILLE	HALF A WIDTH - ERB ST. EAST	HALF A WIDTH - IRA NEEDLE	HALF A WIDTH-ERB ST. WEST	AADT	AVERAGE DELAY	LOS SIG	LOS UNSIG
8.30-9.30 AM	AADT * 1	50	2.01	2.66	2.07	3.85	1688	3.8	A	A
8.30-9.30 AM	AADT * 1	50	2.19	2.90	2.26	4.20	1688	3.6	A	A
8.30-9.30 AM	AADT * 1	50	2.37	3.15	2.44	4.55	1688	3.5	A	A
8.30-9.30 AM	AADT * 1	50	2.56	3.39	2.63	4.90	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	50	2.74	3.63	2.82	5.25	1688	3.2	A	A
8.30-9.30 AM	AADT * 1	50	2.92	3.87	3.01	5.60	1688	3	A	A
8.30-9.30 AM	AADT * 1	50	3.10	4.11	3.20	5.95	1688	2.9	A	A
8.30-9.30 AM	AADT * 1	50	3.29	4.36	3.38	6.30	1688	2.8	A	A
8.30-9.30 AM	AADT * 1	50	3.47	4.60	3.57	6.65	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	3.65	4.84	3.76	7.00	1688	2.6	A	A
8.30-9.30 AM	AADT * 1.185	50	2.01	2.66	2.07	3.85	2000	4.5	A	A
8.30-9.30 AM	AADT * 1.185	50	2.19	2.90	2.26	4.20	2000	4.3	A	A
8.30-9.30 AM	AADT * 1.185	50	2.37	3.15	2.44	4.55	2000	4	A	A
8.30-9.30 AM	AADT * 1.185	50	2.56	3.39	2.63	4.90	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.185	50	2.74	3.63	2.82	5.25	2000	3.6	A	A
8.30-9.30 AM	AADT * 1.185	50	2.92	3.87	3.01	5.60	2000	3.4	A	A
8.30-9.30 AM	AADT * 1.185	50	3.10	4.11	3.20	5.95	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.185	50	3.29	4.36	3.38	6.30	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.185	50	3.47	4.60	3.57	6.65	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	3.65	4.84	3.76	7.00	2000	3	A	A
8.30-9.30 AM	AADT * 1.777	50	2.01	2.66	2.07	3.85	3000	24.7	C	C
8.30-9.30 AM	AADT * 1.777	50	2.19	2.90	2.26	4.20	3000	17.3	B	C
8.30-9.30 AM	AADT * 1.777	50	2.37	3.15	2.44	4.55	3000	12.7	B	B
8.30-9.30 AM	AADT * 1.777	50	2.56	3.39	2.63	4.90	3000	10.3	B	B
8.30-9.30 AM	AADT * 1.777	50	2.74	3.63	2.82	5.25	3000	8.8	A	A
8.30-9.30 AM	AADT * 1.777	50	2.92	3.87	3.01	5.60	3000	7.8	A	A
8.30-9.30 AM	AADT * 1.777	50	3.10	4.11	3.20	5.95	3000	7	A	A
8.30-9.30 AM	AADT * 1.777	50	3.29	4.36	3.38	6.30	3000	6.4	A	A
8.30-9.30 AM	AADT * 1.777	50	3.47	4.60	3.57	6.65	3000	6	A	A
8.30-9.30 AM	AADT * 1.777	50	3.65	4.84	3.76	7.00	3000	5.6	A	A
8.30-9.30 AM	AADT * 2.37	50	2.01	2.66	2.07	3.85	4000	219.8	F	F
8.30-9.30 AM	AADT * 2.37	50	2.19	2.90	2.26	4.20	4000	192.6	F	F
8.30-9.30 AM	AADT * 2.37	50	2.37	3.15	2.44	4.55	4000	166.9	F	F
8.30-9.30 AM	AADT * 2.37	50	2.56	3.39	2.63	4.90	4000	144.2	F	F
8.30-9.30 AM	AADT * 2.37	50	2.74	3.63	2.82	5.25	4000	124.3	F	F
8.30-9.30 AM	AADT * 2.37	50	2.92	3.87	3.01	5.60	4000	106.8	F	F
8.30-9.30 AM	AADT * 2.37	50	3.10	4.11	3.20	5.95	4000	91.3	F	F
8.30-9.30 AM	AADT * 2.37	50	3.29	4.36	3.38	6.30	4000	76.8	E	F
8.30-9.30 AM	AADT * 2.37	50	3.47	4.60	3.57	6.65	4000	64.3	E	F
8.30-9.30 AM	AADT * 2.37	50	3.65	4.84	3.76	7.00	4000	53.2	D	F
12.30-1.30 PM	AADT * 1	50	2.01	2.66	2.07	3.85	1029	2.9	A	A
12.30-1.30 PM	AADT * 1	50	2.19	2.90	2.26	4.2	1029	2.7	A	A
12.30-1.30 PM	AADT * 1	50	2.37	3.15	2.44	4.55	1029	2.6	A	A
12.30-1.30 PM	AADT * 1	50	2.56	3.39	2.63	4.9	1029	2.5	A	A

12.30-1.30 PM	AADT * 1	50	2.7375	3.63	2.82	5.25	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	50	2.92	3.872	3.008	5.6	1029	2.3	A	A
12.30-1.30 PM	AADT * 1	50	3.1025	4.114	3.196	5.95	1029	2.3	A	A
12.30-1.30 PM	AADT * 1	50	3.285	4.356	3.384	6.3	1029	2.2	A	A
12.30-1.30 PM	AADT * 1	50	3.4675	4.598	3.572	6.65	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	3.65	4.84	3.76	7	1029	2.1	A	A
12.30-1.30 PM	AADT * 1.94	50	2.01	2.66	2.07	3.85	2000	4.6	A	A
12.30-1.30 PM	AADT * 1.94	50	2.19	2.90	2.26	4.2	2000	4.3	A	A
12.30-1.30 PM	AADT * 1.94	50	2.37	3.15	2.44	4.55	2000	4	A	A
12.30-1.30 PM	AADT * 1.94	50	2.56	3.39	2.63	4.9	2000	3.8	A	A
12.30-1.30 PM	AADT * 1.94	50	2.7375	3.63	2.82	5.25	2000	3.6	A	A
12.30-1.30 PM	AADT * 1.94	50	2.92	3.872	3.008	5.6	2000	3.4	A	A
12.30-1.30 PM	AADT * 1.94	50	3.1025	4.114	3.196	5.95	2000	3.3	A	A
12.30-1.30 PM	AADT * 1.94	50	3.285	4.356	3.384	6.3	2000	3.1	A	A
12.30-1.30 PM	AADT * 1.94	50	3.4675	4.598	3.572	6.65	2000	3	A	A
12.30-1.30 PM	AADT * 1.94	50	3.65	4.84	3.76	7	2000	2.9	A	A
12.30-1.30 PM	AADT * 2.915	50	2.01	2.66	2.07	3.85	3000	21	C	C
12.30-1.30 PM	AADT * 2.915	50	2.19	2.90	2.26	4.2	3000	14.5	B	B
12.30-1.30 PM	AADT * 2.915	50	2.37	3.15	2.44	4.55	3000	10.8	B	B
12.30-1.30 PM	AADT * 2.915	50	2.56	3.39	2.63	4.9	3000	8.8	A	A
12.30-1.30 PM	AADT * 2.915	50	2.7375	3.63	2.82	5.25	3000	7.5	A	A
12.30-1.30 PM	AADT * 2.915	50	2.92	3.872	3.008	5.6	3000	6.7	A	A
12.30-1.30 PM	AADT * 2.915	50	3.1025	4.114	3.196	5.95	3000	6.1	A	A
12.30-1.30 PM	AADT * 2.915	50	3.285	4.356	3.384	6.3	3000	5.6	A	A
12.30-1.30 PM	AADT * 2.915	50	3.4675	4.598	3.572	6.65	3000	5.2	A	A
12.30-1.30 PM	AADT * 2.915	50	3.65	4.84	3.76	7	3000	4.9	A	A
12.30-1.30 PM	AADT * 3.887	50	2.01	2.66	2.07	3.85	4000	183.9	F	F
12.30-1.30 PM	AADT * 3.887	50	2.19	2.90	2.26	4.2	4000	156.6	F	F
12.30-1.30 PM	AADT * 3.887	50	2.37	3.15	2.44	4.55	4000	132	F	F
12.30-1.30 PM	AADT * 3.887	50	2.56	3.39	2.63	4.9	4000	111.2	F	F
12.30-1.30 PM	AADT * 3.887	50	2.7375	3.63	2.82	5.25	4000	93.5	F	F
12.30-1.30 PM	AADT * 3.887	50	2.92	3.872	3.008	5.6	4000	78.2	E	F
12.30-1.30 PM	AADT * 3.887	50	3.1025	4.114	3.196	5.95	4000	64.5	E	F
12.30-1.30 PM	AADT * 3.887	50	3.285	4.356	3.384	6.3	4000	52.1	D	F
12.30-1.30 PM	AADT * 3.887	50	3.4675	4.598	3.572	6.65	4000	40.4	D	E
12.30-1.30 PM	AADT * 3.887	50	3.65	4.84	3.76	7	4000	30.7	C	D
4.30-5.30 PM	AADT * 1	50	2.01	2.66	2.07	3.85	1865	4.1	A	A
4.30-5.30 PM	AADT * 1	50	2.19	2.90	2.26	4.2	1865	3.9	A	A
4.30-5.30 PM	AADT * 1	50	2.37	3.15	2.44	4.55	1865	3.7	A	A
4.30-5.30 PM	AADT * 1	50	2.56	3.39	2.63	4.9	1865	3.5	A	A
4.30-5.30 PM	AADT * 1	50	2.7375	3.63	2.82	5.25	1865	3.3	A	A
4.30-5.30 PM	AADT * 1	50	2.92	3.872	3.008	5.6	1865	3.2	A	A
4.30-5.30 PM	AADT * 1	50	3.1025	4.114	3.196	5.95	1865	3.1	A	A
4.30-5.30 PM	AADT * 1	50	3.285	4.356	3.384	6.3	1865	2.9	A	A
4.30-5.30 PM	AADT * 1	50	3.4675	4.598	3.572	6.65	1865	2.9	A	A
4.30-5.30 PM	AADT * 1	50	3.65	4.84	3.76	7	1865	2.8	A	A
4.30-5.30 PM	AADT * 1.072	50	2.01	2.66	2.07	3.85	2000	4.4	A	A
4.30-5.30 PM	AADT * 1.072	50	2.19	2.90	2.26	4.2	2000	4.1	A	A

4.30-5.30 PM	AADT * 1.072	50	2.37	3.15	2.44	4.55	2000	3.9	A	A
4.30-5.30 PM	AADT * 1.072	50	2.56	3.39	2.63	4.9	2000	3.7	A	A
4.30-5.30 PM	AADT * 1.072	50	2.7375	3.63	2.82	5.25	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.072	50	2.92	3.872	3.008	5.6	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.072	50	3.1025	4.114	3.196	5.95	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.072	50	3.285	4.356	3.384	6.3	2000	3.1	A	A
4.30-5.30 PM	AADT * 1.072	50	3.4675	4.598	3.572	6.65	2000	3	A	A
4.30-5.30 PM	AADT * 1.072	50	3.65	4.84	3.76	7	2000	3	A	A
4.30-5.30 PM	AADT * 1.608	50	2.01	2.66	2.07	3.85	3000	12.2	B	B
4.30-5.30 PM	AADT * 1.608	50	2.19	2.90	2.26	4.2	3000	10.4	B	B
4.30-5.30 PM	AADT * 1.608	50	2.37	3.15	2.44	4.55	3000	9.1	A	A
4.30-5.30 PM	AADT * 1.608	50	2.56	3.39	2.63	4.9	3000	8	A	A
4.30-5.30 PM	AADT * 1.608	50	2.7375	3.63	2.82	5.25	3000	7.3	A	A
4.30-5.30 PM	AADT * 1.608	50	2.92	3.872	3.008	5.6	3000	6.7	A	A
4.30-5.30 PM	AADT * 1.608	50	3.1025	4.114	3.196	5.95	3000	6.2	A	A
4.30-5.30 PM	AADT * 1.608	50	3.285	4.356	3.384	6.3	3000	5.8	A	A
4.30-5.30 PM	AADT * 1.608	50	3.4675	4.598	3.572	6.65	3000	5.5	A	A
4.30-5.30 PM	AADT * 1.608	50	3.65	4.84	3.76	7	3000	5.2	A	A
4.30-5.30 PM	AADT * 2.144	50	2.01	2.66	2.07	3.85	4000	145.3	F	F
4.30-5.30 PM	AADT * 2.738	50	2.19	2.90	2.26	4.2	4000	127.2	F	F
4.30-5.30 PM	AADT * 2.738	50	2.37	3.15	2.44	4.55	4000	113.3	F	F
4.30-5.30 PM	AADT * 2.738	50	2.56	3.39	2.63	4.9	4000	101.7	F	F
4.30-5.30 PM	AADT * 2.738	50	2.7375	3.63	2.82	5.25	4000	92.4	F	F
4.30-5.30 PM	AADT * 2.738	50	2.92	3.872	3.008	5.6	4000	84	F	F
4.30-5.30 PM	AADT * 2.738	50	3.1025	4.114	3.196	5.95	4000	76.4	E	F
4.30-5.30 PM	AADT * 2.738	50	3.285	4.356	3.384	6.3	4000	69.3	E	F
4.30-5.30 PM	AADT * 2.738	50	3.4675	4.598	3.572	6.65	4000	62.8	E	F
4.30-5.30 PM	AADT * 2.738	50	3.65	4.84	3.76	7	4000	56.2	E	F
8.30-9.30 AM	AADT * 1	85	2.01	2.66	2.07	3.85	1688	5.3	A	A
8.30-9.30 AM	AADT * 1	85	2.19	2.90	2.26	4.2	1688	4.9	A	A
8.30-9.30 AM	AADT * 1	85	2.37	3.15	2.44	4.55	1688	4.6	A	A
8.30-9.30 AM	AADT * 1	85	2.56	3.39	2.63	4.9	1688	4.3	A	A
8.30-9.30 AM	AADT * 1	85	2.7375	3.63	2.82	5.25	1688	4.1	A	A
8.30-9.30 AM	AADT * 1	85	2.92	3.872	3.008	5.6	1688	3.9	A	A
8.30-9.30 AM	AADT * 1	85	3.1025	4.114	3.196	5.95	1688	3.7	A	A
8.30-9.30 AM	AADT * 1	85	3.285	4.356	3.384	6.3	1688	3.6	A	A
8.30-9.30 AM	AADT * 1	85	3.4675	4.598	3.572	6.65	1688	3.4	A	A
8.30-9.30 AM	AADT * 1	85	3.65	4.84	3.76	7	1688	3.3	A	A
8.30-9.30 AM	AADT * 1.185	85	2.01	2.66	2.07	3.85	2000	6.8	A	A
8.30-9.30 AM	AADT * 1.185	85	2.19	2.90	2.26	4.2	2000	6.2	A	A
8.30-9.30 AM	AADT * 1.185	85	2.37	3.15	2.44	4.55	2000	5.6	A	A
8.30-9.30 AM	AADT * 1.185	85	2.56	3.39	2.63	4.9	2000	5.2	A	A
8.30-9.30 AM	AADT * 1.185	85	2.7375	3.63	2.82	5.25	2000	4.9	A	A
8.30-9.30 AM	AADT * 1.185	85	2.92	3.872	3.008	5.6	2000	4.6	A	A
8.30-9.30 AM	AADT * 1.185	85	3.1025	4.114	3.196	5.95	2000	4.4	A	A
8.30-9.30 AM	AADT * 1.185	85	3.285	4.356	3.384	6.3	2000	4.2	A	A
8.30-9.30 AM	AADT * 1.185	85	3.4675	4.598	3.572	6.65	2000	4	A	A
8.30-9.30 AM	AADT * 1.185	85	3.65	4.84	3.76	7	2000	3.8	A	A

8.30-9.30 AM	AADT * 1.777	85	2.01	2.66	2.07	3.85	3000	99.1	F	F
8.30-9.30 AM	AADT * 1.777	85	2.19	2.90	2.26	4.2	3000	76.8	E	F
8.30-9.30 AM	AADT * 1.777	85	2.37	3.15	2.44	4.55	3000	56.5	E	F
8.30-9.30 AM	AADT * 1.777	85	2.56	3.39	2.63	4.9	3000	39.4	D	E
8.30-9.30 AM	AADT * 1.777	85	2.7375	3.63	2.82	5.25	3000	27.7	C	D
8.30-9.30 AM	AADT * 1.777	85	2.92	3.872	3.008	5.6	3000	20.2	C	C
8.30-9.30 AM	AADT * 1.777	85	3.1025	4.114	3.196	5.95	3000	15.3	B	C
8.30-9.30 AM	AADT * 1.777	85	3.285	4.356	3.384	6.3	3000	12.4	B	B
8.30-9.30 AM	AADT * 1.777	85	3.4675	4.598	3.572	6.65	3000	10.5	B	B
8.30-9.30 AM	AADT * 1.777	85	3.65	4.84	3.76	7	3000	9.3	A	A
8.30-9.30 AM	AADT * 2.37	85	2.01	2.66	2.07	3.85	4000	374	F	F
8.30-9.30 AM	AADT * 2.37	85	2.19	2.90	2.26	4.2	4000	335.1	F	F
8.30-9.30 AM	AADT * 2.37	85	2.37	3.15	2.44	4.55	4000	298.5	F	F
8.30-9.30 AM	AADT * 2.37	85	2.56	3.39	2.63	4.9	4000	266.6	F	F
8.30-9.30 AM	AADT * 2.37	85	2.7375	3.63	2.82	5.25	4000	238	F	F
8.30-9.30 AM	AADT * 2.37	85	2.92	3.872	3.008	5.6	4000	212	F	F
8.30-9.30 AM	AADT * 2.37	85	3.1025	4.114	3.196	5.95	4000	188.2	F	F
8.30-9.30 AM	AADT * 2.37	85	3.285	4.356	3.384	6.3	4000	166.7	F	F
8.30-9.30 AM	AADT * 2.37	85	3.4675	4.598	3.572	6.65	4000	146.7	F	F
8.30-9.30 AM	AADT * 2.37	85	3.65	4.84	3.76	7	4000	129.9	F	F
12.30-1.30 PM	AADT * 1	85	2.01	2.66	2.07	3.85	1029	3.6	A	A
12.30-1.30 PM	AADT * 1	85	2.19	2.90	2.26	4.2	1029	3.4	A	A
12.30-1.30 PM	AADT * 1	85	2.37	3.15	2.44	4.55	1029	3.2	A	A
12.30-1.30 PM	AADT * 1	85	2.56	3.39	2.63	4.9	1029	3	A	A
12.30-1.30 PM	AADT * 1	85	2.7375	3.63	2.82	5.25	1029	2.9	A	A
12.30-1.30 PM	AADT * 1	85	2.92	3.872	3.008	5.6	1029	2.8	A	A
12.30-1.30 PM	AADT * 1	85	3.1025	4.114	3.196	5.95	1029	2.7	A	A
12.30-1.30 PM	AADT * 1	85	3.285	4.356	3.384	6.3	1029	2.6	A	A
12.30-1.30 PM	AADT * 1	85	3.4675	4.598	3.572	6.65	1029	2.5	A	A
12.30-1.30 PM	AADT * 1	85	3.65	4.84	3.76	7	1029	2.5	A	A
12.30-1.30 PM	AADT * 1.94	85	2.01	2.66	2.07	3.85	2000	6.6	A	A
12.30-1.30 PM	AADT * 1.94	85	2.19	2.90	2.26	4.2	2000	5.9	A	A
12.30-1.30 PM	AADT * 1.94	85	2.37	3.15	2.44	4.55	2000	5.4	A	A
12.30-1.30 PM	AADT * 1.94	85	2.56	3.39	2.63	4.9	2000	4.9	A	A
12.30-1.30 PM	AADT * 1.94	85	2.7375	3.63	2.82	5.25	2000	4.6	A	A
12.30-1.30 PM	AADT * 1.94	85	2.92	3.872	3.008	5.6	2000	4.3	A	A
12.30-1.30 PM	AADT * 1.94	85	3.1025	4.114	3.196	5.95	2000	4.1	A	A
12.30-1.30 PM	AADT * 1.94	85	3.285	4.356	3.384	6.3	2000	3.9	A	A
12.30-1.30 PM	AADT * 1.94	85	3.4675	4.598	3.572	6.65	2000	3.7	A	A
12.30-1.30 PM	AADT * 1.94	85	3.65	4.84	3.76	7	2000	3.6	A	A
12.30-1.30 PM	AADT * 2.915	85	2.01	2.66	2.07	3.85	3000	85.5	F	F
12.30-1.30 PM	AADT * 2.915	85	2.19	2.90	2.26	4.2	3000	64	E	F
12.30-1.30 PM	AADT * 2.915	85	2.37	3.15	2.44	4.55	3000	44.4	D	E
12.30-1.30 PM	AADT * 2.915	85	2.56	3.39	2.63	4.9	3000	29.3	C	D
12.30-1.30 PM	AADT * 2.915	85	2.7375	3.63	2.82	5.25	3000	20.4	C	C
12.30-1.30 PM	AADT * 2.915	85	2.92	3.872	3.008	5.6	3000	14.7	B	B
12.30-1.30 PM	AADT * 2.915	85	3.1025	4.114	3.196	5.95	3000	11.4	B	B
12.30-1.30 PM	AADT * 2.915	85	3.285	4.356	3.384	6.3	3000	9.4	A	A

12.30-1.30 PM	AADT * 2.915	85	3.4675	4.598	3.572	6.65	3000	8.2	A	A
12.30-1.30 PM	AADT * 2.915	85	3.65	4.84	3.76	7	3000	7.4	A	A
12.30-1.30 PM	AADT * 3.887	85	2.01	2.66	2.07	3.85	4000	334.7	F	F
12.30-1.30 PM	AADT * 3.887	85	2.19	2.90	2.26	4.2	4000	289.7	F	F
12.30-1.30 PM	AADT * 3.887	85	2.37	3.15	2.44	4.55	4000	251.3	F	F
12.30-1.30 PM	AADT * 3.887	85	2.56	3.39	2.63	4.9	4000	219.8	F	F
12.30-1.30 PM	AADT * 3.887	85	2.7375	3.63	2.82	5.25	4000	192	F	F
12.30-1.30 PM	AADT * 3.887	85	2.92	3.872	3.008	5.6	4000	166.9	F	F
12.30-1.30 PM	AADT * 3.887	85	3.1025	4.114	3.196	5.95	4000	144.2	F	F
12.30-1.30 PM	AADT * 3.887	85	3.285	4.356	3.384	6.3	4000	124	F	F
12.30-1.30 PM	AADT * 3.887	85	3.4675	4.598	3.572	6.65	4000	105.9	F	F
12.30-1.30 PM	AADT * 3.887	85	3.65	4.84	3.76	7	4000	90.7	F	F
4.30-5.30 PM	AADT * 1	85	2.01	2.66	2.07	3.85	1865	5.4	A	A
4.30-5.30 PM	AADT * 1	85	2.19	2.90	2.26	4.2	1865	5	A	A
4.30-5.30 PM	AADT * 1	85	2.37	3.15	2.44	4.55	1865	4.7	A	A
4.30-5.30 PM	AADT * 1	85	2.56	3.39	2.63	4.9	1865	4.4	A	A
4.30-5.30 PM	AADT * 1	85	2.7375	3.63	2.82	5.25	1865	4.2	A	A
4.30-5.30 PM	AADT * 1	85	2.92	3.872	3.008	5.6	1865	4	A	A
4.30-5.30 PM	AADT * 1	85	3.1025	4.114	3.196	5.95	1865	3.8	A	A
4.30-5.30 PM	AADT * 1	85	3.285	4.356	3.384	6.3	1865	3.6	A	A
4.30-5.30 PM	AADT * 1	85	3.4675	4.598	3.572	6.65	1865	3.5	A	A
4.30-5.30 PM	AADT * 1	85	3.65	4.84	3.76	7	1865	3.4	A	A
4.30-5.30 PM	AADT * 1.072	85	2.01	2.66	2.07	3.85	2000	6	A	A
4.30-5.30 PM	AADT * 1.072	85	2.19	2.90	2.26	4.2	2000	5.5	A	A
4.30-5.30 PM	AADT * 1.072	85	2.37	3.15	2.44	4.55	2000	5.1	A	A
4.30-5.30 PM	AADT * 1.072	85	2.56	3.39	2.63	4.9	2000	4.8	A	A
4.30-5.30 PM	AADT * 1.072	85	2.7375	3.63	2.82	5.25	2000	4.5	A	A
4.30-5.30 PM	AADT * 1.072	85	2.92	3.872	3.008	5.6	2000	4.3	A	A
4.30-5.30 PM	AADT * 1.072	85	3.1025	4.114	3.196	5.95	2000	4.1	A	A
4.30-5.30 PM	AADT * 1.072	85	3.285	4.356	3.384	6.3	2000	3.9	A	A
4.30-5.30 PM	AADT * 1.072	85	3.4675	4.598	3.572	6.65	2000	3.7	A	A
4.30-5.30 PM	AADT * 1.072	85	3.65	4.84	3.76	7	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.608	85	2.01	2.66	2.07	3.85	3000	50.6	D	F
4.30-5.30 PM	AADT * 1.608	85	2.19	2.90	2.26	4.2	3000	39.9	D	E
4.30-5.30 PM	AADT * 1.608	85	2.37	3.15	2.44	4.55	3000	31.1	C	D
4.30-5.30 PM	AADT * 1.608	85	2.56	3.39	2.63	4.9	3000	24.9	C	C
4.30-5.30 PM	AADT * 1.608	85	2.7375	3.63	2.82	5.25	3000	20.2	C	C
4.30-5.30 PM	AADT * 1.608	85	2.92	3.872	3.008	5.6	3000	16.4	B	C
4.30-5.30 PM	AADT * 1.608	85	3.1025	4.114	3.196	5.95	3000	13.6	B	B
4.30-5.30 PM	AADT * 1.608	85	3.285	4.356	3.384	6.3	3000	11.6	B	B
4.30-5.30 PM	AADT * 1.608	85	3.4675	4.598	3.572	6.65	3000	10.1	B	B
4.30-5.30 PM	AADT * 1.608	85	3.65	4.84	3.76	7	3000	9	A	A
4.30-5.30 PM	AADT * 2.144	85	2.01	2.66	2.07	3.85	4000	279.7	F	F
4.30-5.30 PM	AADT * 2.144	85	2.19	2.90	2.26	4.2	4000	247.3	F	F
4.30-5.30 PM	AADT * 2.144	85	2.37	3.15	2.44	4.55	4000	221	F	F
4.30-5.30 PM	AADT * 2.144	85	2.56	3.39	2.63	4.9	4000	198.2	F	F
4.30-5.30 PM	AADT * 2.144	85	2.7375	3.63	2.82	5.25	4000	180.7	F	F
4.30-5.30 PM	AADT * 2.144	85	2.92	3.872	3.008	5.6	4000	165.9	F	F

4.30-5.30 PM	AADT * 2.144	85	3.1025	4.114	3.196	5.95	4000	153.3	F	F
4.30-5.30 PM	AADT * 2.144	85	3.285	4.356	3.384	6.3	4000	141.9	F	F
4.30-5.30 PM	AADT * 2.144	85	3.4675	4.598	3.572	6.65	4000	131.1	F	F
4.30-5.30 PM	AADT * 2.144	85	3.65	4.84	3.76	7	4000	121.7	F	F

Entry Width for Erb/Erbsville/Ira-Needle Roundabout

Timeframe	AADT Assumptions	CL	ENTRY WIDTH-ERBSVILL	ENTRY WIDTH - ERB ST. EAST	ENTRY WIDTH - IRA NEEDLE	ENTRY WIDTH- ERB ST. WEST	AADT	AVERAGE DELAY	LOS SIG	LOS UNSIG
8.30-9.30 AM	AADT * 1	50	7.32	7.23	7.32	7.315	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	7.70	7.61	7.70	7.7	1688	2.6	A	A
8.30-9.30 AM	AADT * 1	50	8.09	7.99	8.09	8.085	1688	2.5	A	A
8.30-9.30 AM	AADT * 1	50	8.47	8.37	8.47	8.47	1688	2.5	A	A
8.30-9.30 AM	AADT * 1	50	8.86	8.75	8.86	8.855	1688	2.4	A	A
8.30-9.30 AM	AADT * 1	50	9.24	9.13	9.24	9.24	1688	2.3	A	A
8.30-9.30 AM	AADT * 1	50	9.63	9.51	9.63	9.625	1688	2.3	A	A
8.30-9.30 AM	AADT * 1.185	50	7.32	7.23	7.32	7.315	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	7.70	7.61	7.70	7.7	2000	3	A	A
8.30-9.30 AM	AADT * 1.185	50	8.09	7.99	8.09	8.085	2000	2.9	A	A
8.30-9.30 AM	AADT * 1.185	50	8.47	8.37	8.47	8.47	2000	2.8	A	A
8.30-9.30 AM	AADT * 1.185	50	8.86	8.75	8.86	8.855	2000	2.7	A	A
8.30-9.30 AM	AADT * 1.185	50	9.24	9.13	9.24	9.24	2000	2.6	A	A
8.30-9.30 AM	AADT * 1.185	50	9.63	9.51	9.63	9.625	2000	2.5	A	A
8.30-9.30 AM	AADT * 1.77	50	7.32	7.23	7.32	7.315	3000	5.6	A	A
8.30-9.30 AM	AADT * 1.77	50	7.70	7.61	7.70	7.7	3000	5.2	A	A
8.30-9.30 AM	AADT * 1.77	50	8.09	7.99	8.09	8.085	3000	4.9	A	A
8.30-9.30 AM	AADT * 1.77	50	8.47	8.37	8.47	8.47	3000	4.6	A	A
8.30-9.30 AM	AADT * 1.77	50	8.86	8.75	8.86	8.855	3000	4.4	A	A
8.30-9.30 AM	AADT * 1.77	50	9.24	9.13	9.24	9.24	3000	4.2	A	A
8.30-9.30 AM	AADT * 1.77	50	9.63	9.51	9.63	9.625	3000	4.1	A	A
8.30-9.30 AM	AADT * 2.37	50	7.32	7.23	7.32	7.315	4000	53.4	D	F
8.30-9.30 AM	AADT * 2.37	50	7.70	7.61	7.70	7.7	4000	43.2	D	E
8.30-9.30 AM	AADT * 2.37	50	8.09	7.99	8.09	8.085	4000	34.9	C	D
8.30-9.30 AM	AADT * 2.37	50	8.47	8.37	8.47	8.47	4000	29.7	C	D
8.30-9.30 AM	AADT * 2.37	50	8.86	8.75	8.86	8.855	4000	25.7	C	D
8.30-9.30 AM	AADT * 2.37	50	9.24	9.13	9.24	9.24	4000	22.5	C	C
8.30-9.30 AM	AADT * 2.37	50	9.63	9.51	9.63	9.625	4000	19.8	B	C
12.30-1.30 PM	AADT * 1	50	7.32	7.23	7.32	7.315	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	7.70	7.61	7.70	7.7	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	8.09	7.99	8.09	8.085	1029	2	A	A
12.30-1.30 PM	AADT * 1	50	8.47	8.37	8.47	8.47	1029	2	A	A
12.30-1.30 PM	AADT * 1	50	8.86	8.75	8.86	8.855	1029	1.9	A	A
12.30-1.30 PM	AADT * 1	50	9.24	9.13	9.24	9.24	1029	1.9	A	A
12.30-1.30 PM	AADT * 1	50	9.63	9.51	9.63	9.625	1029	1.9	A	A
12.30-1.30 PM	AADT * 1.94	50	7.32	7.23	7.32	7.315	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	7.70	7.61	7.70	7.7	2000	2.8	A	A
12.30-1.30 PM	AADT * 1.94	50	8.09	7.99	8.09	8.085	2000	2.7	A	A
12.30-1.30 PM	AADT * 1.94	50	8.47	8.37	8.47	8.47	2000	2.6	A	A
12.30-1.30 PM	AADT * 1.94	50	8.86	8.75	8.86	8.855	2000	2.5	A	A
12.30-1.30 PM	AADT * 1.94	50	9.24	9.13	9.24	9.24	2000	2.5	A	A
12.30-1.30 PM	AADT * 1.94	50	9.63	9.51	9.63	9.625	2000	2.4	A	A
12.30-1.30 PM	AADT * 2.915	50	7.32	7.23	7.32	7.315	3000	4.9	A	A
12.30-1.30 PM	AADT * 2.915	50	7.70	7.61	7.70	7.7	3000	4.6	A	A

12.30-1.30 PM	AADT * 2.915	50	8.09	7.99	8.09	8.085	3000	4.3	A	A
12.30-1.30 PM	AADT * 2.915	50	8.47	8.37	8.47	8.47	3000	4.1	A	A
12.30-1.30 PM	AADT * 2.915	50	8.86	8.75	8.86	8.855	3000	4	A	A
12.30-1.30 PM	AADT * 2.915	50	9.24	9.13	9.24	9.24	3000	3.8	A	A
12.30-1.30 PM	AADT * 2.915	50	9.63	9.51	9.63	9.625	3000	3.7	A	A
12.30-1.30 PM	AADT * 3.887	50	7.32	7.23	7.32	7.315	4000	30.7	C	D
12.30-1.30 PM	AADT * 3.887	50	7.70	7.61	7.70	7.7	4000	25.2	C	D
12.30-1.30 PM	AADT * 3.887	50	8.09	7.99	8.09	8.085	4000	21	C	C
12.30-1.30 PM	AADT * 3.887	50	8.47	8.37	8.47	8.47	4000	17.5	B	C
12.30-1.30 PM	AADT * 3.887	50	8.86	8.75	8.86	8.855	4000	15.2	B	C
12.30-1.30 PM	AADT * 3.887	50	9.24	9.13	9.24	9.24	4000	13.3	B	B
12.30-1.30 PM	AADT * 3.887	50	9.63	9.51	9.63	9.625	4000	11.8	B	B
4.30-5.30 PM	AADT * 1	50	7.32	7.23	7.32	7.315	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	7.70	7.61	7.70	7.7	1865	2.7	A	A
4.30-5.30 PM	AADT * 1	50	8.09	7.99	8.09	8.085	1865	2.6	A	A
4.30-5.30 PM	AADT * 1	50	8.47	8.37	8.47	8.47	1865	2.5	A	A
4.30-5.30 PM	AADT * 1	50	8.86	8.75	8.86	8.855	1865	2.4	A	A
4.30-5.30 PM	AADT * 1	50	9.24	9.13	9.24	9.24	1865	2.4	A	A
4.30-5.30 PM	AADT * 1	50	9.63	9.51	9.63	9.625	1865	2.3	A	A
4.30-5.30 PM	AADT * 1.072	50	7.32	7.23	7.32	7.315	2000	3	A	A
4.30-5.30 PM	AADT * 1.072	50	7.70	7.61	7.70	7.7	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.072	50	8.09	7.99	8.09	8.085	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.072	50	8.47	8.37	8.47	8.47	2000	2.6	A	A
4.30-5.30 PM	AADT * 1.072	50	8.86	8.75	8.86	8.855	2000	2.5	A	A
4.30-5.30 PM	AADT * 1.072	50	9.24	9.13	9.24	9.24	2000	2.5	A	A
4.30-5.30 PM	AADT * 1.072	50	9.63	9.51	9.63	9.625	2000	2.4	A	A
4.30-5.30 PM	AADT * 1.608	50	7.32	7.23	7.32	7.315	3000	5.2	A	A
4.30-5.30 PM	AADT * 1.608	50	7.70	7.61	7.70	7.7	3000	4.8	A	A
4.30-5.30 PM	AADT * 1.608	50	8.09	7.99	8.09	8.085	3000	4.4	A	A
4.30-5.30 PM	AADT * 1.608	50	8.47	8.37	8.47	8.47	3000	4.2	A	A
4.30-5.30 PM	AADT * 1.608	50	8.86	8.75	8.86	8.855	3000	4	A	A
4.30-5.30 PM	AADT * 1.608	50	9.24	9.13	9.24	9.24	3000	3.8	A	A
4.30-5.30 PM	AADT * 1.608	50	9.63	9.51	9.63	9.625	3000	3.7	A	A
4.30-5.30 PM	AADT * 2.144	50	7.32	7.23	7.32	7.315	4000	56.2	E	F
4.30-5.30 PM	AADT * 2.144	50	7.70	7.61	7.70	7.7	4000	45	D	E
4.30-5.30 PM	AADT * 2.144	50	8.09	7.99	8.09	8.085	4000	34.7	C	D
4.30-5.30 PM	AADT * 2.144	50	8.47	8.37	8.47	8.47	4000	27.1	C	D
4.30-5.30 PM	AADT * 2.144	50	8.86	8.75	8.86	8.855	4000	21.7	C	C
4.30-5.30 PM	AADT * 2.144	50	9.24	9.13	9.24	9.24	4000	17.5	B	C
4.30-5.30 PM	AADT * 2.144	50	9.63	9.51	9.63	9.625	4000	14.1	B	B
8.30-9.30 AM	AADT * 1	85	7.32	7.23	7.32	7.315	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	7.70	7.61	7.70	7.7	1688	3.2	A	A
8.30-9.30 AM	AADT * 1	85	8.09	7.99	8.09	8.085	1688	3	A	A
8.30-9.30 AM	AADT * 1	85	8.47	8.37	8.47	8.47	1688	2.9	A	A
8.30-9.30 AM	AADT * 1	85	8.86	8.75	8.86	8.855	1688	2.8	A	A
8.30-9.30 AM	AADT * 1	85	9.24	9.13	9.24	9.24	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	85	9.63	9.51	9.63	9.625	1688	2.7	A	A
8.30-9.30 AM	AADT * 1.185	85	7.32	7.23	7.32	7.315	2000	3.8	A	A

8.30-9.30 AM	AADT * 1.185	85	7.70	7.61	7.70	7.7	2000	3.6	A	A
8.30-9.30 AM	AADT * 1.185	85	8.09	7.99	8.09	8.085	2000	3.5	A	A
8.30-9.30 AM	AADT * 1.185	85	8.47	8.37	8.47	8.47	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.185	85	8.86	8.75	8.86	8.855	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.185	85	9.24	9.13	9.24	9.24	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	85	9.63	9.51	9.63	9.625	2000	3	A	A
8.30-9.30 AM	AADT * 1.777	85	7.32	7.23	7.32	7.315	3000	9.3	A	A
8.30-9.30 AM	AADT * 1.777	85	7.70	7.61	7.70	7.7	3000	8.2	A	A
8.30-9.30 AM	AADT * 1.777	85	8.09	7.99	8.09	8.085	3000	7.4	A	A
8.30-9.30 AM	AADT * 1.777	85	8.47	8.37	8.47	8.47	3000	6.8	A	A
8.30-9.30 AM	AADT * 1.777	85	8.86	8.75	8.86	8.855	3000	6.3	A	A
8.30-9.30 AM	AADT * 1.777	85	9.24	9.13	9.24	9.24	3000	5.9	A	A
8.30-9.30 AM	AADT * 1.777	85	9.63	9.51	9.63	9.625	3000	5.6	A	A
8.30-9.30 AM	AADT * 2.37	85	7.32	7.23	7.32	7.315	4000	127.7	F	F
8.30-9.30 AM	AADT * 2.37	85	7.70	7.61	7.70	7.7	4000	114.4	F	F
8.30-9.30 AM	AADT * 2.37	85	8.09	7.99	8.09	8.085	4000	110.2	F	F
8.30-9.30 AM	AADT * 2.37	85	8.47	8.37	8.47	8.47	4000	90	F	F
8.30-9.30 AM	AADT * 2.37	85	8.86	8.75	8.86	8.855	4000	80.3	F	F
8.30-9.30 AM	AADT * 2.37	85	9.24	9.13	9.24	9.24	4000	72.5	E	F
8.30-9.30 AM	AADT * 2.37	85	9.63	9.51	9.63	9.625	4000	66.4	E	F
12.30-1.30 PM	AADT * 1	85	7.32	7.23	7.32	7.315	1029	2.5	A	A
12.30-1.30 PM	AADT * 1	85	7.70	7.61	7.70	7.7	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	8.09	7.99	8.09	8.085	1029	2.3	A	A
12.30-1.30 PM	AADT * 1	85	8.47	8.37	8.47	8.47	1029	2.2	A	A
12.30-1.30 PM	AADT * 1	85	8.86	8.75	8.86	8.855	1029	2.2	A	A
12.30-1.30 PM	AADT * 1	85	9.24	9.13	9.24	9.24	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	85	9.63	9.51	9.63	9.625	1029	2.1	A	A
12.30-1.30 PM	AADT * 1.94	85	7.32	7.23	7.32	7.315	2000	3.6	A	A
12.30-1.30 PM	AADT * 1.94	85	7.70	7.61	7.70	7.7	2000	3.4	A	A
12.30-1.30 PM	AADT * 1.94	85	8.09	7.99	8.09	8.085	2000	3.3	A	A
12.30-1.30 PM	AADT * 1.94	85	8.47	8.37	8.47	8.47	2000	3.1	A	A
12.30-1.30 PM	AADT * 1.94	85	8.86	8.75	8.86	8.855	2000	3	A	A
12.30-1.30 PM	AADT * 1.94	85	9.24	9.13	9.24	9.24	2000	3	A	A
12.30-1.30 PM	AADT * 1.94	85	9.63	9.51	9.63	9.625	2000	2.9	A	A
12.30-1.30 PM	AADT * 2.915	85	7.32	7.23	7.32	7.315	3000	7.4	A	A
12.30-1.30 PM	AADT * 2.915	85	7.70	7.61	7.70	7.7	3000	6.7	A	A
12.30-1.30 PM	AADT * 2.915	85	8.09	7.99	8.09	8.085	3000	6.1	A	A
12.30-1.30 PM	AADT * 2.915	85	8.47	8.37	8.47	8.47	3000	5.7	A	A
12.30-1.30 PM	AADT * 2.915	85	8.86	8.75	8.86	8.855	3000	5.4	A	A
12.30-1.30 PM	AADT * 2.915	85	9.24	9.13	9.24	9.24	3000	5.1	A	A
12.30-1.30 PM	AADT * 2.915	85	9.63	9.51	9.63	9.625	3000	4.9	A	A
12.30-1.30 PM	AADT * 3.887	85	7.32	7.23	7.32	7.315	4000	90.7	F	F
12.30-1.30 PM	AADT * 3.887	85	7.70	7.61	7.70	7.7	4000	78.6	F	F
12.30-1.30 PM	AADT * 3.887	85	8.09	7.99	8.09	8.085	4000	68.4	F	F
12.30-1.30 PM	AADT * 3.887	85	8.47	8.37	8.47	8.47	4000	60.1	E	F
12.30-1.30 PM	AADT * 3.887	85	8.86	8.75	8.86	8.855	4000	53.1	D	F
12.30-1.30 PM	AADT * 3.887	85	9.24	9.13	9.24	9.24	4000	47.2	D	F
12.30-1.30 PM	AADT * 3.887	85	9.63	9.51	9.63	9.625	4000	42	D	E

4.30-5.30 PM	AADT * 1	85	7.32	7.23	7.32	7.315	1865	3.4	A	A
4.30-5.30 PM	AADT * 1	85	7.70	7.61	7.70	7.7	1865	3.2	A	A
4.30-5.30 PM	AADT * 1	85	8.09	7.99	8.09	8.085	1865	3.1	A	A
4.30-5.30 PM	AADT * 1	85	8.47	8.37	8.47	8.47	1865	2.9	A	A
4.30-5.30 PM	AADT * 1	85	8.86	8.75	8.86	8.855	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	85	9.24	9.13	9.24	9.24	1865	2.7	A	A
4.30-5.30 PM	AADT * 1	85	9.63	9.51	9.63	9.625	1865	2.7	A	A
4.30-5.30 PM	AADT *1.072	85	7.32	7.23	7.32	7.315	2000	3.6	A	A
4.30-5.30 PM	AADT *1.072	85	7.70	7.61	7.70	7.7	2000	3.4	A	A
4.30-5.30 PM	AADT *1.072	85	8.09	7.99	8.09	8.085	2000	3.3	A	A
4.30-5.30 PM	AADT *1.072	85	8.47	8.37	8.47	8.47	2000	3.1	A	A
4.30-5.30 PM	AADT *1.072	85	8.86	8.75	8.86	8.855	2000	3	A	A
4.30-5.30 PM	AADT *1.072	85	9.24	9.13	9.24	9.24	2000	2.9	A	A
4.30-5.30 PM	AADT *1.072	85	9.63	9.51	9.63	9.625	2000	2.8	A	A
4.30-5.30 PM	AADT *1.608	85	7.32	7.23	7.32	7.315	3000	9	A	A
4.30-5.30 PM	AADT *1.608	85	7.70	7.61	7.70	7.7	3000	7.6	A	A
4.30-5.30 PM	AADT *1.608	85	8.09	7.99	8.09	8.085	3000	6.6	A	A
4.30-5.30 PM	AADT *1.608	85	8.47	8.37	8.47	8.47	3000	6	A	A
4.30-5.30 PM	AADT *1.608	85	8.86	8.75	8.86	8.855	3000	5.5	A	A
4.30-5.30 PM	AADT *1.608	85	9.24	9.13	9.24	9.24	3000	5.2	A	A
4.30-5.30 PM	AADT *1.608	85	9.63	9.51	9.63	9.625	3000	4.9	A	A
4.30-5.30 PM	AADT * 2.144	85	7.32	7.23	7.32	7.315	4000	121.7	F	F
4.30-5.30 PM	AADT * 2.144	85	7.70	7.61	7.70	7.7	4000	105.3	F	F
4.30-5.30 PM	AADT * 2.144	85	8.09	7.99	8.09	8.085	4000	91.3	F	F
4.30-5.30 PM	AADT * 2.144	85	8.47	8.37	8.47	8.47	4000	79.6	E	F
4.30-5.30 PM	AADT * 2.144	85	8.86	8.75	8.86	8.855	4000	69	E	F
4.30-5.30 PM	AADT * 2.144	85	9.24	9.13	9.24	9.24	4000	59.7	E	F
4.30-5.30 PM	AADT * 2.144	85	9.63	9.51	9.63	9.625	4000	51	D	F

Flare Length for Erb/Erbsville/Ira-Needle Roundabout

Timeframe	AADT Assumptions	CL	FLARE LENGHT-ERBSVILLE	FLARE LENGHT - ERB ST. EAST	FLARE LENGHT - IRA NEEDLE	FLARE LENGHT- ERB ST. WEST	AADT	AVERAGE DELAY	LOS SIG	LOS UNSIG
8.30-9.30 AM	AADT * 1	50	13.55	5.60	13.08	3.87	1688	3	A	A
8.30-9.30 AM	AADT * 1	50	14.90	6.15	14.39	4.26	1688	3	A	A
8.30-9.30 AM	AADT * 1	50	16.26	6.71	15.70	4.64	1688	2.9	A	A
8.30-9.30 AM	AADT * 1	50	17.61	7.27	17.00	5.03	1688	2.8	A	A
8.30-9.30 AM	AADT * 1	50	18.96	7.83	18.31	5.42	1688	2.8	A	A
8.30-9.30 AM	AADT * 1	50	20.32	8.39	19.62	5.81	1688	2.8	A	A
8.30-9.30 AM	AADT * 1	50	21.67	8.95	20.93	6.19	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	23.03	9.51	22.24	6.58	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	24.38	10.07	23.54	6.97	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	25.74	10.63	24.85	7.35	1688	2.6	A	A
8.30-9.30 AM	AADT * 1	50	27.09	11.19	26.16	7.74	1688	2.6	A	A
8.30-9.30 AM	AADT * 1	50	28.45	11.75	27.47	8.13	1688	2.6	A	A
8.30-9.30 AM	AADT * 1	50	29.80	12.31	28.78	8.51	1688	2.6	A	A
8.30-9.30 AM	AADT * 1	50	31.16	12.87	30.09	8.90	1688	2.6	A	A
8.30-9.30 AM	AADT * 1	50	32.51	13.43	31.39	9.29	1688	2.5	A	A
8.30-9.30 AM	AADT * 1	50	33.87	13.99	32.70	9.68	1688	2.5	A	A
8.30-9.30 AM	AADT * 1	50	35.22	14.55	34.01	10.06	1688	2.5	A	A
8.30-9.30 AM	AADT * 1	50	36.57	15.11	35.32	10.45	1688	2.5	A	A
8.30-9.30 AM	AADT * 1	50	37.93	15.67	36.63	10.84	1688	2.5	A	A
8.30-9.30 AM	AADT * 1	50	39.28	16.23	37.93	11.22	1688	2.5	A	A
8.30-9.30 AM	AADT * 1	50	40.64	16.79	39.24	11.61	1688	2.5	A	A
8.30-9.30 AM	AADT * 1.185	50	13.55	5.60	13.08	3.87	2000	3.5	A	A
8.30-9.30 AM	AADT * 1.185	50	14.90	6.15	14.39	4.26	2000	3.4	A	A
8.30-9.30 AM	AADT * 1.185	50	16.26	6.71	15.70	4.64	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.185	50	17.61	7.27	17.00	5.03	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.185	50	18.96	7.83	18.31	5.42	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.185	50	20.32	8.39	19.62	5.81	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	21.67	8.95	20.93	6.19	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	23.03	9.51	22.24	6.58	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	24.38	10.07	23.54	6.97	2000	3	A	A
8.30-9.30 AM	AADT * 1.185	50	25.74	10.63	24.85	7.35	2000	3	A	A
8.30-9.30 AM	AADT * 1.185	50	27.09	11.19	26.16	7.74	2000	3	A	A
8.30-9.30 AM	AADT * 1.185	50	28.45	11.75	27.47	8.13	2000	2.9	A	A
8.30-9.30 AM	AADT * 1.185	50	29.80	12.31	28.78	8.51	2000	2.9	A	A
8.30-9.30 AM	AADT * 1.185	50	31.16	12.87	30.09	8.90	2000	2.9	A	A
8.30-9.30 AM	AADT * 1.185	50	32.51	13.43	31.39	9.29	2000	2.9	A	A
8.30-9.30 AM	AADT * 1.185	50	33.87	13.99	32.70	9.68	2000	2.9	A	A
8.30-9.30 AM	AADT * 1.185	50	35.22	14.55	34.01	10.06	2000	2.8	A	A
8.30-9.30 AM	AADT * 1.185	50	36.57	15.11	35.32	10.45	2000	2.8	A	A
8.30-9.30 AM	AADT * 1.185	50	37.93	15.67	36.63	10.84	2000	2.8	A	A
8.30-9.30 AM	AADT * 1.185	50	39.28	16.23	37.93	11.22	2000	2.8	A	A
8.30-9.30 AM	AADT * 1.185	50	40.64	16.79	39.24	11.61	2000	2.8	A	A
8.30-9.30 AM	AADT * 1.777	50	13.55	5.60	13.08	3.87	3000	7.1	A	A

8.30-9.30 AM	AADT * 1.777	50	14.90	6.15	14.39	4.26	3000	6.8	A	A
8.30-9.30 AM	AADT * 1.777	50	16.26	6.71	15.70	4.64	3000	6.5	A	A
8.30-9.30 AM	AADT * 1.777	50	17.61	7.27	17.00	5.03	3000	6.2	A	A
8.30-9.30 AM	AADT * 1.777	50	18.96	7.83	18.31	5.42	3000	6	A	A
8.30-9.30 AM	AADT * 1.777	50	20.32	8.39	19.62	5.81	3000	5.8	A	A
8.30-9.30 AM	AADT * 1.777	50	21.67	8.95	20.93	6.19	3000	5.7	A	A
8.30-9.30 AM	AADT * 1.777	50	23.03	9.51	22.24	6.58	3000	5.5	A	A
8.30-9.30 AM	AADT * 1.777	50	24.38	10.07	23.54	6.97	3000	5.4	A	A
8.30-9.30 AM	AADT * 1.777	50	25.74	10.63	24.85	7.35	3000	5.3	A	A
8.30-9.30 AM	AADT * 1.777	50	27.09	11.19	26.16	7.74	3000	5.2	A	A
8.30-9.30 AM	AADT * 1.777	50	28.45	11.75	27.47	8.13	3000	5.1	A	A
8.30-9.30 AM	AADT * 1.777	50	29.80	12.31	28.78	8.51	3000	5	A	A
8.30-9.30 AM	AADT * 1.777	50	31.16	12.87	30.09	8.90	3000	5	A	A
8.30-9.30 AM	AADT * 1.777	50	32.51	13.43	31.39	9.29	3000	4.9	A	A
8.30-9.30 AM	AADT * 1.777	50	33.87	13.99	32.70	9.68	3000	4.8	A	A
8.30-9.30 AM	AADT * 1.777	50	35.22	14.55	34.01	10.06	3000	4.8	A	A
8.30-9.30 AM	AADT * 1.777	50	36.57	15.11	35.32	10.45	3000	4.7	A	A
8.30-9.30 AM	AADT * 1.777	50	37.93	15.67	36.63	10.84	3000	4.7	A	A
8.30-9.30 AM	AADT * 1.777	50	39.28	16.23	37.93	11.22	3000	4.6	A	A
8.30-9.30 AM	AADT * 1.777	50	40.64	16.79	39.24	11.61	3000	4.6	A	A
8.30-9.30 AM	AADT * 2.37	50	13.55	5.60	13.08	3.87	4000	87.9	F	F
8.30-9.30 AM	AADT * 2.37	50	14.90	6.15	14.39	4.26	4000	80.8	F	F
8.30-9.30 AM	AADT * 2.37	50	16.26	6.71	15.70	4.64	4000	74.5	E	F
8.30-9.30 AM	AADT * 2.37	50	17.61	7.27	17.00	5.03	4000	68.9	E	F
8.30-9.30 AM	AADT * 2.37	50	18.96	7.83	18.31	5.42	4000	63.8	E	F
8.30-9.30 AM	AADT * 2.37	50	20.32	8.39	19.62	5.81	4000	59.2	E	F
8.30-9.30 AM	AADT * 2.37	50	21.67	8.95	20.93	6.19	4000	55.4	E	F
8.30-9.30 AM	AADT * 2.37	50	23.03	9.51	22.24	6.58	4000	52	D	F
8.30-9.30 AM	AADT * 2.37	50	24.38	10.07	23.54	6.97	4000	48.8	D	E
8.30-9.30 AM	AADT * 2.37	50	25.74	10.63	24.85	7.35	4000	45.9	D	E
8.30-9.30 AM	AADT * 2.37	50	27.09	11.19	26.16	7.74	4000	43.2	D	E
8.30-9.30 AM	AADT * 2.37	50	28.45	11.75	27.47	8.13	4000	40.8	D	E
8.30-9.30 AM	AADT * 2.37	50	29.80	12.31	28.78	8.51	4000	38.5	D	E
8.30-9.30 AM	AADT * 2.37	50	31.16	12.87	30.09	8.90	4000	36.4	D	E
8.30-9.30 AM	AADT * 2.37	50	32.51	13.43	31.39	9.29	4000	34.6	C	D
8.30-9.30 AM	AADT * 2.37	50	33.87	13.99	32.70	9.68	4000	33.2	C	D
8.30-9.30 AM	AADT * 2.37	50	35.22	14.55	34.01	10.06	4000	31.9	C	D
8.30-9.30 AM	AADT * 2.37	50	36.57	15.11	35.32	10.45	4000	30.8	C	D
8.30-9.30 AM	AADT * 2.37	50	37.93	15.67	36.63	10.84	4000	29.7	C	D
8.30-9.30 AM	AADT * 2.37	50	39.28	16.23	37.93	11.22	4000	28.8	C	D
8.30-9.30 AM	AADT * 2.37	50	40.64	16.79	39.24	11.61	4000	27.8	C	D
12.30-1.30 PM	AADT * 1	50	13.55	5.60	13.08	3.87	1029	2.3	A	A
12.30-1.30 PM	AADT * 1	50	14.90	6.15	14.39	4.26	1029	2.3	A	A
12.30-1.30 PM	AADT * 1	50	16.26	6.71	15.70	4.64	1029	2.2	A	A
12.30-1.30 PM	AADT * 1	50	17.61	7.27	17.00	5.03	1029	2.2	A	A
12.30-1.30 PM	AADT * 1	50	18.96	7.83	18.31	5.42	1029	2.2	A	A
12.30-1.30 PM	AADT * 1	50	20.32	8.39	19.62	5.81	1029	2.2	A	A
12.30-1.30 PM	AADT * 1	50	21.67	8.95	20.93	6.19	1029	2.1	A	A

12.30-1.30 PM	AADT * 1	50	23.03	9.51	22.24	6.58	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	24.38	10.07	23.54	6.97	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	25.74	10.63	24.85	7.35	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	27.09	11.19	26.16	7.74	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	28.45	11.75	27.47	8.13	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	29.80	12.31	28.78	8.51	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	31.16	12.87	30.09	8.90	1029	2	A	A
12.30-1.30 PM	AADT * 1	50	32.51	13.43	31.39	9.29	1029	2	A	A
12.30-1.30 PM	AADT * 1	50	33.87	13.99	32.70	9.68	1029	2	A	A
12.30-1.30 PM	AADT * 1	50	35.22	14.55	34.01	10.06	1029	2	A	A
12.30-1.30 PM	AADT * 1	50	36.57	15.11	35.32	10.45	1029	2	A	A
12.30-1.30 PM	AADT * 1	50	37.93	15.67	36.63	10.84	1029	2	A	A
12.30-1.30 PM	AADT * 1	50	39.28	16.23	37.93	11.22	1029	2	A	A
12.30-1.30 PM	AADT * 1	50	40.64	16.79	39.24	11.61	1029	2	A	A
12.30-1.30 PM	AADT * 1.94	50	13.55	5.60	13.08	3.87	2000	3.2	A	A
12.30-1.30 PM	AADT * 1.94	50	14.90	6.15	14.39	4.26	2000	3.1	A	A
12.30-1.30 PM	AADT * 1.94	50	16.26	6.71	15.70	4.64	2000	3.1	A	A
12.30-1.30 PM	AADT * 1.94	50	17.61	7.27	17.00	5.03	2000	3	A	A
12.30-1.30 PM	AADT * 1.94	50	18.96	7.83	18.31	5.42	2000	3	A	A
12.30-1.30 PM	AADT * 1.94	50	20.32	8.39	19.62	5.81	2000	3	A	A
12.30-1.30 PM	AADT * 1.94	50	21.67	8.95	20.93	6.19	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	23.03	9.51	22.24	6.58	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	24.38	10.07	23.54	6.97	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	25.74	10.63	24.85	7.35	2000	2.8	A	A
12.30-1.30 PM	AADT * 1.94	50	27.09	11.19	26.16	7.74	2000	2.8	A	A
12.30-1.30 PM	AADT * 1.94	50	28.45	11.75	27.47	8.13	2000	2.8	A	A
12.30-1.30 PM	AADT * 1.94	50	29.80	12.31	28.78	8.51	2000	2.8	A	A
12.30-1.30 PM	AADT * 1.94	50	31.16	12.87	30.09	8.90	2000	2.8	A	A
12.30-1.30 PM	AADT * 1.94	50	32.51	13.43	31.39	9.29	2000	2.7	A	A
12.30-1.30 PM	AADT * 1.94	50	33.87	13.99	32.70	9.68	2000	2.7	A	A
12.30-1.30 PM	AADT * 1.94	50	35.22	14.55	34.01	10.06	2000	2.7	A	A
12.30-1.30 PM	AADT * 1.94	50	36.57	15.11	35.32	10.45	2000	2.7	A	A
12.30-1.30 PM	AADT * 1.94	50	37.93	15.67	36.63	10.84	2000	2.6	A	A
12.30-1.30 PM	AADT * 1.94	50	39.28	16.23	37.93	11.22	2000	2.6	A	A
12.30-1.30 PM	AADT * 1.94	50	40.64	16.79	39.24	11.61	2000	2.6	A	A
12.30-1.30 PM	AADT * 2.915	50	13.55	5.60	13.08	3.87	3000	5.8	A	A
12.30-1.30 PM	AADT * 2.915	50	14.90	6.15	14.39	4.26	3000	5.6	A	A
12.30-1.30 PM	AADT * 2.915	50	16.26	6.71	15.70	4.64	3000	5.4	A	A
12.30-1.30 PM	AADT * 2.915	50	17.61	7.27	17.00	5.03	3000	5.3	A	A
12.30-1.30 PM	AADT * 2.915	50	18.96	7.83	18.31	5.42	3000	5.1	A	A
12.30-1.30 PM	AADT * 2.915	50	20.32	8.39	19.62	5.81	3000	5	A	A
12.30-1.30 PM	AADT * 2.915	50	21.67	8.95	20.93	6.19	3000	4.9	A	A
12.30-1.30 PM	AADT * 2.915	50	23.03	9.51	22.24	6.58	3000	4.8	A	A
12.30-1.30 PM	AADT * 2.915	50	24.38	10.07	23.54	6.97	3000	4.7	A	A
12.30-1.30 PM	AADT * 2.915	50	25.74	10.63	24.85	7.35	3000	4.7	A	A
12.30-1.30 PM	AADT * 2.915	50	27.09	11.19	26.16	7.74	3000	4.6	A	A
12.30-1.30 PM	AADT * 2.915	50	28.45	11.75	27.47	8.13	3000	4.5	A	A
12.30-1.30 PM	AADT * 2.915	50	29.80	12.31	28.78	8.51	3000	4.5	A	A

12.30-1.30 PM	AADT * 2.915	50	31.16	12.87	30.09	8.90	3000	4.4	A	A
12.30-1.30 PM	AADT * 2.915	50	32.51	13.43	31.39	9.29	3000	4.4	A	A
12.30-1.30 PM	AADT * 2.915	50	33.87	13.99	32.70	9.68	3000	4.3	A	A
12.30-1.30 PM	AADT * 2.915	50	35.22	14.55	34.01	10.06	3000	4.3	A	A
12.30-1.30 PM	AADT * 2.915	50	36.57	15.11	35.32	10.45	3000	4.2	A	A
12.30-1.30 PM	AADT * 2.915	50	37.93	15.67	36.63	10.84	3000	4.2	A	A
12.30-1.30 PM	AADT * 2.915	50	39.28	16.23	37.93	11.22	3000	4.2	A	A
12.30-1.30 PM	AADT * 2.915	50	40.64	16.79	39.24	11.61	3000	4.1	A	A
12.30-1.30 PM	AADT *3.887	50	13.55	5.60	13.08	3.87	4000	55.4	E	F
12.30-1.30 PM	AADT *3.887	50	14.90	6.15	14.39	4.26	4000	50.3	D	F
12.30-1.30 PM	AADT *3.887	50	16.26	6.71	15.70	4.64	4000	45.8	D	E
12.30-1.30 PM	AADT *3.887	50	17.61	7.27	17.00	5.03	4000	41.8	D	E
12.30-1.30 PM	AADT *3.887	50	18.96	7.83	18.31	5.42	4000	38.2	D	E
12.30-1.30 PM	AADT *3.887	50	20.32	8.39	19.62	5.81	4000	35	C	D
12.30-1.30 PM	AADT *3.887	50	21.67	8.95	20.93	6.19	4000	32	C	D
12.30-1.30 PM	AADT *3.887	50	23.03	9.51	22.24	6.58	4000	30	C	D
12.30-1.30 PM	AADT *3.887	50	24.38	10.07	23.54	6.97	4000	28.2	C	D
12.30-1.30 PM	AADT *3.887	50	25.74	10.63	24.85	7.35	4000	26.7	C	D
12.30-1.30 PM	AADT *3.887	50	27.09	11.19	26.16	7.74	4000	25.2	C	D
12.30-1.30 PM	AADT *3.887	50	28.45	11.75	27.47	8.13	4000	23.9	C	C
12.30-1.30 PM	AADT *3.887	50	29.80	12.31	28.78	8.51	4000	22.8	C	C
12.30-1.30 PM	AADT *3.887	50	31.16	12.87	30.09	8.90	4000	21.7	C	C
12.30-1.30 PM	AADT *3.887	50	32.51	13.43	31.39	9.29	4000	20.7	C	C
12.30-1.30 PM	AADT *3.887	50	33.87	13.99	32.70	9.68	4000	19.8	B	C
12.30-1.30 PM	AADT *3.887	50	35.22	14.55	34.01	10.06	4000	19	B	C
12.30-1.30 PM	AADT *3.887	50	36.57	15.11	35.32	10.45	4000	18.2	B	C
12.30-1.30 PM	AADT *3.887	50	37.93	15.67	36.63	10.84	4000	17.6	B	C
12.30-1.30 PM	AADT *3.887	50	39.28	16.23	37.93	11.22	4000	16.9	B	C
12.30-1.30 PM	AADT *3.887	50	40.64	16.79	39.24	11.61	4000	16.4	B	C
4.30-5.30 PM	AADT * 1	50	13.55	5.60	13.08	3.87	1865	3.1	A	A
4.30-5.30 PM	AADT * 1	50	14.90	6.15	14.39	4.26	1865	3	A	A
4.30-5.30 PM	AADT * 1	50	16.26	6.71	15.70	4.64	1865	3	A	A
4.30-5.30 PM	AADT * 1	50	17.61	7.27	17.00	5.03	1865	2.9	A	A
4.30-5.30 PM	AADT * 1	50	18.96	7.83	18.31	5.42	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	20.32	8.39	19.62	5.81	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	21.67	8.95	20.93	6.19	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	23.03	9.51	22.24	6.58	1865	2.7	A	A
4.30-5.30 PM	AADT * 1	50	24.38	10.07	23.54	6.97	1865	2.7	A	A
4.30-5.30 PM	AADT * 1	50	25.74	10.63	24.85	7.35	1865	2.7	A	A
4.30-5.30 PM	AADT * 1	50	27.09	11.19	26.16	7.74	1865	2.7	A	A
4.30-5.30 PM	AADT * 1	50	28.45	11.75	27.47	8.13	1865	2.6	A	A
4.30-5.30 PM	AADT * 1	50	29.80	12.31	28.78	8.51	1865	2.6	A	A
4.30-5.30 PM	AADT * 1	50	31.16	12.87	30.09	8.90	1865	2.6	A	A
4.30-5.30 PM	AADT * 1	50	32.51	13.43	31.39	9.29	1865	2.6	A	A
4.30-5.30 PM	AADT * 1	50	33.87	13.99	32.70	9.68	1865	2.6	A	A
4.30-5.30 PM	AADT * 1	50	35.22	14.55	34.01	10.06	1865	2.6	A	A
4.30-5.30 PM	AADT * 1	50	36.57	15.11	35.32	10.45	1865	2.6	A	A
4.30-5.30 PM	AADT * 1	50	37.93	15.67	36.63	10.84	1865	2.5	A	A

4.30-5.30 PM	AADT * 1	50	39.28	16.23	37.93	11.22	1865	2.5	A	A
4.30-5.30 PM	AADT * 1	50	40.64	16.79	39.24	11.61	1865	2.5	A	A
4.30-5.30 PM	AADT * 1.072	50	13.55	5.60	13.08	3.87	2000	3.2	A	A
4.30-5.30 PM	AADT * 1.072	50	14.90	6.15	14.39	4.26	2000	3.2	A	A
4.30-5.30 PM	AADT * 1.072	50	16.26	6.71	15.70	4.64	2000	3.1	A	A
4.30-5.30 PM	AADT * 1.072	50	17.61	7.27	17.00	5.03	2000	3.1	A	A
4.30-5.30 PM	AADT * 1.072	50	18.96	7.83	18.31	5.42	2000	3	A	A
4.30-5.30 PM	AADT * 1.072	50	20.32	8.39	19.62	5.81	2000	3	A	A
4.30-5.30 PM	AADT * 1.072	50	21.67	8.95	20.93	6.19	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	23.03	9.51	22.24	6.58	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	24.38	10.07	23.54	6.97	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	25.74	10.63	24.85	7.35	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	27.09	11.19	26.16	7.74	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.072	50	28.45	11.75	27.47	8.13	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.072	50	29.80	12.31	28.78	8.51	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.072	50	31.16	12.87	30.09	8.90	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.072	50	32.51	13.43	31.39	9.29	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.072	50	33.87	13.99	32.70	9.68	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.072	50	35.22	14.55	34.01	10.06	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.072	50	36.57	15.11	35.32	10.45	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.072	50	37.93	15.67	36.63	10.84	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.072	50	39.28	16.23	37.93	11.22	2000	2.6	A	A
4.30-5.30 PM	AADT * 1.072	50	40.64	16.79	39.24	11.61	2000	2.6	A	A
4.30-5.30 PM	AADT * 1.608	50	13.55	5.60	13.08	3.87	3000	6.6	A	A
4.30-5.30 PM	AADT * 1.608	50	14.90	6.15	14.39	4.26	3000	6.2	A	A
4.30-5.30 PM	AADT * 1.608	50	16.26	6.71	15.70	4.64	3000	5.9	A	A
4.30-5.30 PM	AADT * 1.608	50	17.61	7.27	17.00	5.03	3000	5.7	A	A
4.30-5.30 PM	AADT * 1.608	50	18.96	7.83	18.31	5.42	3000	5.5	A	A
4.30-5.30 PM	AADT * 1.608	50	20.32	8.39	19.62	5.81	3000	5.3	A	A
4.30-5.30 PM	AADT * 1.608	50	21.67	8.95	20.93	6.19	3000	5.2	A	A
4.30-5.30 PM	AADT * 1.608	50	23.03	9.51	22.24	6.58	3000	5	A	A
4.30-5.30 PM	AADT * 1.608	50	24.38	10.07	23.54	6.97	3000	4.9	A	A
4.30-5.30 PM	AADT * 1.608	50	25.74	10.63	24.85	7.35	3000	4.8	A	A
4.30-5.30 PM	AADT * 1.608	50	27.09	11.19	26.16	7.74	3000	4.8	A	A
4.30-5.30 PM	AADT * 1.608	50	28.45	11.75	27.47	8.13	3000	4.7	A	A
4.30-5.30 PM	AADT * 1.608	50	29.80	12.31	28.78	8.51	3000	4.6	A	A
4.30-5.30 PM	AADT * 1.608	50	31.16	12.87	30.09	8.90	3000	4.6	A	A
4.30-5.30 PM	AADT * 1.608	50	32.51	13.43	31.39	9.29	3000	4.5	A	A
4.30-5.30 PM	AADT * 1.608	50	33.87	13.99	32.70	9.68	3000	4.5	A	A
4.30-5.30 PM	AADT * 1.608	50	35.22	14.55	34.01	10.06	3000	4.4	A	A
4.30-5.30 PM	AADT * 1.608	50	36.57	15.11	35.32	10.45	3000	4.4	A	A
4.30-5.30 PM	AADT * 1.608	50	37.93	15.67	36.63	10.84	3000	4.3	A	A
4.30-5.30 PM	AADT * 1.608	50	39.28	16.23	37.93	11.22	3000	4.3	A	A
4.30-5.30 PM	AADT * 1.608	50	40.64	16.79	39.24	11.61	3000	4.3	A	A
4.30-5.30 PM	AADT * 2.144	50	13.55	5.60	13.08	3.87	4000	90	F	F
4.30-5.30 PM	AADT * 2.144	50	14.90	6.15	14.39	4.26	4000	82.8	F	F
4.30-5.30 PM	AADT * 2.144	50	16.26	6.71	15.70	4.64	4000	76.5	E	F
4.30-5.30 PM	AADT * 2.144	50	17.61	7.27	17.00	5.03	4000	71	E	F

4.30-5.30 PM	AADT * 2.144	50	18.96	7.83	18.31	5.42	4000	66.2	E	F
4.30-5.30 PM	AADT * 2.144	50	20.32	8.39	19.62	5.81	4000	61.7	E	F
4.30-5.30 PM	AADT * 2.144	50	21.67	8.95	20.93	6.19	4000	57.8	E	F
4.30-5.30 PM	AADT * 2.144	50	23.03	9.51	22.24	6.58	4000	54.1	D	F
4.30-5.30 PM	AADT * 2.144	50	24.38	10.07	23.54	6.97	4000	50.8	D	F
4.30-5.30 PM	AADT * 2.144	50	25.74	10.63	24.85	7.35	4000	47.8	D	E
4.30-5.30 PM	AADT * 2.144	50	27.09	11.19	26.16	7.74	4000	45	D	E
4.30-5.30 PM	AADT * 2.144	50	28.45	11.75	27.47	8.13	4000	42.4	D	E
4.30-5.30 PM	AADT * 2.144	50	29.80	12.31	28.78	8.51	4000	40	D	E
4.30-5.30 PM	AADT * 2.144	50	31.16	12.87	30.09	8.90	4000	37.8	D	E
4.30-5.30 PM	AADT * 2.144	50	32.51	13.43	31.39	9.29	4000	35.8	D	E
4.30-5.30 PM	AADT * 2.144	50	33.87	13.99	32.70	9.68	4000	33.9	C	D
4.30-5.30 PM	AADT * 2.144	50	35.22	14.55	34.01	10.06	4000	32.1	C	D
4.30-5.30 PM	AADT * 2.144	50	36.57	15.11	35.32	10.45	4000	30.4	C	D
4.30-5.30 PM	AADT * 2.144	50	37.93	15.67	36.63	10.84	4000	29.2	C	D
4.30-5.30 PM	AADT * 2.144	50	39.28	16.23	37.93	11.22	4000	28.2	C	D
4.30-5.30 PM	AADT * 2.144	50	40.64	16.79	39.24	11.61	4000	27.2	C	D
8.30-9.30 AM	AADT * 1	85	13.55	5.60	13.08	3.87	1688	3.7	A	A
8.30-9.30 AM	AADT * 1	85	14.90	6.15	14.39	4.26	1688	3.6	A	A
8.30-9.30 AM	AADT * 1	85	16.26	6.71	15.70	4.64	1688	3.5	A	A
8.30-9.30 AM	AADT * 1	85	17.61	7.27	17.00	5.03	1688	3.5	A	A
8.30-9.30 AM	AADT * 1	85	18.96	7.83	18.31	5.42	1688	3.4	A	A
8.30-9.30 AM	AADT * 1	85	20.32	8.39	19.62	5.81	1688	3.4	A	A
8.30-9.30 AM	AADT * 1	85	21.67	8.95	20.93	6.19	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	23.03	9.51	22.24	6.58	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	24.38	10.07	23.54	6.97	1688	3.2	A	A
8.30-9.30 AM	AADT * 1	85	25.74	10.63	24.85	7.35	1688	3.2	A	A
8.30-9.30 AM	AADT * 1	85	27.09	11.19	26.16	7.74	1688	3.2	A	A
8.30-9.30 AM	AADT * 1	85	28.45	11.75	27.47	8.13	1688	3.1	A	A
8.30-9.30 AM	AADT * 1	85	29.80	12.31	28.78	8.51	1688	3.1	A	A
8.30-9.30 AM	AADT * 1	85	31.16	12.87	30.09	8.90	1688	3.1	A	A
8.30-9.30 AM	AADT * 1	85	32.51	13.43	31.39	9.29	1688	3	A	A
8.30-9.30 AM	AADT * 1	85	33.87	13.99	32.70	9.68	1688	3	A	A
8.30-9.30 AM	AADT * 1	85	35.22	14.55	34.01	10.06	1688	3	A	A
8.30-9.30 AM	AADT * 1	85	36.57	15.11	35.32	10.45	1688	3	A	A
8.30-9.30 AM	AADT * 1	85	37.93	15.67	36.63	10.84	1688	2.9	A	A
8.30-9.30 AM	AADT * 1	85	39.28	16.23	37.93	11.22	1688	2.9	A	A
8.30-9.30 AM	AADT * 1	85	40.64	16.79	39.24	11.61	1688	2.9	A	A
8.30-9.30 AM	AADT * 1.185	85	13.55	5.60	13.08	3.87	2000	4.4	A	A
8.30-9.30 AM	AADT * 1.185	85	14.90	6.15	14.39	4.26	2000	4.3	A	A
8.30-9.30 AM	AADT * 1.185	85	16.26	6.71	15.70	4.64	2000	4.2	A	A
8.30-9.30 AM	AADT * 1.185	85	17.61	7.27	17.00	5.03	2000	4.1	A	A
8.30-9.30 AM	AADT * 1.185	85	18.96	7.83	18.31	5.42	2000	4	A	A
8.30-9.30 AM	AADT * 1.185	85	20.32	8.39	19.62	5.81	2000	3.9	A	A
8.30-9.30 AM	AADT * 1.185	85	21.67	8.95	20.93	6.19	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.185	85	23.03	9.51	22.24	6.58	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.185	85	24.38	10.07	23.54	6.97	2000	3.7	A	A
8.30-9.30 AM	AADT * 1.185	85	25.74	10.63	24.85	7.35	2000	3.7	A	A

8.30-9.30 AM	AADT * 1.185	85	27.09	11.19	26.16	7.74	2000	3.6	A	A
8.30-9.30 AM	AADT * 1.185	85	28.45	11.75	27.47	8.13	2000	3.6	A	A
8.30-9.30 AM	AADT * 1.185	85	29.80	12.31	28.78	8.51	2000	3.5	A	A
8.30-9.30 AM	AADT * 1.185	85	31.16	12.87	30.09	8.90	2000	3.5	A	A
8.30-9.30 AM	AADT * 1.185	85	32.51	13.43	31.39	9.29	2000	3.5	A	A
8.30-9.30 AM	AADT * 1.185	85	33.87	13.99	32.70	9.68	2000	3.4	A	A
8.30-9.30 AM	AADT * 1.185	85	35.22	14.55	34.01	10.06	2000	3.4	A	A
8.30-9.30 AM	AADT * 1.185	85	36.57	15.11	35.32	10.45	2000	3.4	A	A
8.30-9.30 AM	AADT * 1.185	85	37.93	15.67	36.63	10.84	2000	3.4	A	A
8.30-9.30 AM	AADT * 1.185	85	39.28	16.23	37.93	11.22	2000	3.4	A	A
8.30-9.30 AM	AADT * 1.185	85	40.64	16.79	39.24	11.61	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.777	85	13.55	5.60	13.08	3.87	3000	15.3	B	C
8.30-9.30 AM	AADT * 1.777	85	14.90	6.15	14.39	4.26	3000	13.6	B	B
8.30-9.30 AM	AADT * 1.777	85	16.26	6.71	15.70	4.64	3000	12.4	B	B
8.30-9.30 AM	AADT * 1.777	85	17.61	7.27	17.00	5.03	3000	11.4	B	B
8.30-9.30 AM	AADT * 1.777	85	18.96	7.83	18.31	5.42	3000	10.7	B	B
8.30-9.30 AM	AADT * 1.777	85	20.32	8.39	19.62	5.81	3000	10.1	B	B
8.30-9.30 AM	AADT * 1.777	85	21.67	8.95	20.93	6.19	3000	9.6	A	A
8.30-9.30 AM	AADT * 1.777	85	23.03	9.51	22.24	6.58	3000	9.1	A	A
8.30-9.30 AM	AADT * 1.777	85	24.38	10.07	23.54	6.97	3000	8.8	A	A
8.30-9.30 AM	AADT * 1.777	85	25.74	10.63	24.85	7.35	3000	8.5	A	A
8.30-9.30 AM	AADT * 1.777	85	27.09	11.19	26.16	7.74	3000	8.2	A	A
8.30-9.30 AM	AADT * 1.777	85	28.45	11.75	27.47	8.13	3000	8	A	A
8.30-9.30 AM	AADT * 1.777	85	29.80	12.31	28.78	8.51	3000	7.8	A	A
8.30-9.30 AM	AADT * 1.777	85	31.16	12.87	30.09	8.90	3000	7.6	A	A
8.30-9.30 AM	AADT * 1.777	85	32.51	13.43	31.39	9.29	3000	7.4	A	A
8.30-9.30 AM	AADT * 1.777	85	33.87	13.99	32.70	9.68	3000	7.3	A	A
8.30-9.30 AM	AADT * 1.777	85	35.22	14.55	34.01	10.06	3000	7.1	A	A
8.30-9.30 AM	AADT * 1.777	85	36.57	15.11	35.32	10.45	3000	7	A	A
8.30-9.30 AM	AADT * 1.777	85	37.93	15.67	36.63	10.84	3000	6.9	A	A
8.30-9.30 AM	AADT * 1.777	85	39.28	16.23	37.93	11.22	3000	6.8	A	A
8.30-9.30 AM	AADT * 1.777	85	40.64	16.79	39.24	11.61	3000	6.7	A	A
8.30-9.30 AM	AADT * 2.37	85	13.55	5.60	13.08	3.87	4000	182.8	F	F
8.30-9.30 AM	AADT * 2.37	85	14.90	6.15	14.39	4.26	4000	171.7	F	F
8.30-9.30 AM	AADT * 2.37	85	16.26	6.71	15.70	4.64	4000	162	F	F
8.30-9.30 AM	AADT * 2.37	85	17.61	7.27	17.00	5.03	4000	153.5	F	F
8.30-9.30 AM	AADT * 2.37	85	18.96	7.83	18.31	5.42	4000	146	F	F
8.30-9.30 AM	AADT * 2.37	85	20.32	8.39	19.62	5.81	4000	139.3	F	F
8.30-9.30 AM	AADT * 2.37	85	21.67	8.95	20.93	6.19	4000	133.3	F	F
8.30-9.30 AM	AADT * 2.37	85	23.03	9.51	22.24	6.58	4000	127.9	F	F
8.30-9.30 AM	AADT * 2.37	85	24.38	10.07	23.54	6.97	4000	123	F	F
8.30-9.30 AM	AADT * 2.37	85	25.74	10.63	24.85	7.35	4000	118.5	F	F
8.30-9.30 AM	AADT * 2.37	85	27.09	11.19	26.16	7.74	4000	114.4	F	F
8.30-9.30 AM	AADT * 2.37	85	28.45	11.75	27.47	8.13	4000	110.6	F	F
8.30-9.30 AM	AADT * 2.37	85	29.80	12.31	28.78	8.51	4000	107.1	F	F
8.30-9.30 AM	AADT * 2.37	85	31.16	12.87	30.09	8.90	4000	103.9	F	F
8.30-9.30 AM	AADT * 2.37	85	32.51	13.43	31.39	9.29	4000	100.9	F	F
8.30-9.30 AM	AADT * 2.37	85	33.87	13.99	32.70	9.68	4000	98.1	F	F

8.30-9.30 AM	AADT * 2.37	85	35.22	14.55	34.01	10.06	4000	95.4	F	F
8.30-9.30 AM	AADT * 2.37	85	36.57	15.11	35.32	10.45	4000	93	F	F
8.30-9.30 AM	AADT * 2.37	85	37.93	15.67	36.63	10.84	4000	90.7	F	F
8.30-9.30 AM	AADT * 2.37	85	39.28	16.23	37.93	11.22	4000	88.5	F	F
8.30-9.30 AM	AADT * 2.37	85	40.64	16.79	39.24	11.61	4000	86.4	F	F
12.30-1.30 PM	AADT * 1	85	13.55	5.60	13.08	3.87	1029	2.7	A	A
12.30-1.30 PM	AADT * 1	85	14.90	6.15	14.39	4.26	1029	2.6	A	A
12.30-1.30 PM	AADT * 1	85	16.26	6.71	15.70	4.64	1029	2.6	A	A
12.30-1.30 PM	AADT * 1	85	17.61	7.27	17.00	5.03	1029	2.5	A	A
12.30-1.30 PM	AADT * 1	85	18.96	7.83	18.31	5.42	1029	2.5	A	A
12.30-1.30 PM	AADT * 1	85	20.32	8.39	19.62	5.81	1029	2.5	A	A
12.30-1.30 PM	AADT * 1	85	21.67	8.95	20.93	6.19	1029	2.5	A	A
12.30-1.30 PM	AADT * 1	85	23.03	9.51	22.24	6.58	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	24.38	10.07	23.54	6.97	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	25.74	10.63	24.85	7.35	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	27.09	11.19	26.16	7.74	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	28.45	11.75	27.47	8.13	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	29.80	12.31	28.78	8.51	1029	2.3	A	A
12.30-1.30 PM	AADT * 1	85	31.16	12.87	30.09	8.90	1029	2.3	A	A
12.30-1.30 PM	AADT * 1	85	32.51	13.43	31.39	9.29	1029	2.3	A	A
12.30-1.30 PM	AADT * 1	85	33.87	13.99	32.70	9.68	1029	2.3	A	A
12.30-1.30 PM	AADT * 1	85	35.22	14.55	34.01	10.06	1029	2.3	A	A
12.30-1.30 PM	AADT * 1	85	36.57	15.11	35.32	10.45	1029	2.3	A	A
12.30-1.30 PM	AADT * 1	85	37.93	15.67	36.63	10.84	1029	2.3	A	A
12.30-1.30 PM	AADT * 1	85	39.28	16.23	37.93	11.22	1029	2.3	A	A
12.30-1.30 PM	AADT * 1	85	40.64	16.79	39.24	11.61	1029	2.3	A	A
12.30-1.30 PM	AADT * 1.94	85	13.55	5.60	13.08	3.87	2000	4	A	A
12.30-1.30 PM	AADT * 1.94	85	14.90	6.15	14.39	4.26	2000	3.9	A	A
12.30-1.30 PM	AADT * 1.94	85	16.26	6.71	15.70	4.64	2000	3.8	A	A
12.30-1.30 PM	AADT * 1.94	85	17.61	7.27	17.00	5.03	2000	3.7	A	A
12.30-1.30 PM	AADT * 1.94	85	18.96	7.83	18.31	5.42	2000	3.7	A	A
12.30-1.30 PM	AADT * 1.94	85	20.32	8.39	19.62	5.81	2000	3.6	A	A
12.30-1.30 PM	AADT * 1.94	85	21.67	8.95	20.93	6.19	2000	3.6	A	A
12.30-1.30 PM	AADT * 1.94	85	23.03	9.51	22.24	6.58	2000	3.5	A	A
12.30-1.30 PM	AADT * 1.94	85	24.38	10.07	23.54	6.97	2000	3.5	A	A
12.30-1.30 PM	AADT * 1.94	85	25.74	10.63	24.85	7.35	2000	3.4	A	A
12.30-1.30 PM	AADT * 1.94	85	27.09	11.19	26.16	7.74	2000	3.4	A	A
12.30-1.30 PM	AADT * 1.94	85	28.45	11.75	27.47	8.13	2000	3.4	A	A
12.30-1.30 PM	AADT * 1.94	85	29.80	12.31	28.78	8.51	2000	3.3	A	A
12.30-1.30 PM	AADT * 1.94	85	31.16	12.87	30.09	8.90	2000	3.3	A	A
12.30-1.30 PM	AADT * 1.94	85	32.51	13.43	31.39	9.29	2000	3.3	A	A
12.30-1.30 PM	AADT * 1.94	85	33.87	13.99	32.70	9.68	2000	3.3	A	A
12.30-1.30 PM	AADT * 1.94	85	35.22	14.55	34.01	10.06	2000	3.2	A	A
12.30-1.30 PM	AADT * 1.94	85	36.57	15.11	35.32	10.45	2000	3.2	A	A
12.30-1.30 PM	AADT * 1.94	85	37.93	15.67	36.63	10.84	2000	3.2	A	A
12.30-1.30 PM	AADT * 1.94	85	39.28	16.23	37.93	11.22	2000	3.2	A	A
12.30-1.30 PM	AADT * 1.94	85	40.64	16.79	39.24	11.61	2000	3.2	A	A
12.30-1.30 PM	AADT * 2.915	85	13.55	5.60	13.08	3.87	3000	10.2	B	B

12.30-1.30 PM	AADT * 2.915	85	14.90	6.15	14.39	4.26	3000	9.5	A	A
12.30-1.30 PM	AADT * 2.915	85	16.26	6.71	15.70	4.64	3000	8.9	A	A
12.30-1.30 PM	AADT * 2.915	85	17.61	7.27	17.00	5.03	3000	8.4	A	A
12.30-1.30 PM	AADT * 2.915	85	18.96	7.83	18.31	5.42	3000	8	A	A
12.30-1.30 PM	AADT * 2.915	85	20.32	8.39	19.62	5.81	3000	7.7	A	A
12.30-1.30 PM	AADT * 2.915	85	21.67	8.95	20.93	6.19	3000	7.5	A	A
12.30-1.30 PM	AADT * 2.915	85	23.03	9.51	22.24	6.58	3000	7.2	A	A
12.30-1.30 PM	AADT * 2.915	85	24.38	10.07	23.54	6.97	3000	7	A	A
12.30-1.30 PM	AADT * 2.915	85	25.74	10.63	24.85	7.35	3000	6.8	A	A
12.30-1.30 PM	AADT * 2.915	85	27.09	11.19	26.16	7.74	3000	6.7	A	A
12.30-1.30 PM	AADT * 2.915	85	28.45	11.75	27.47	8.13	3000	6.5	A	A
12.30-1.30 PM	AADT * 2.915	85	29.80	12.31	28.78	8.51	3000	6.4	A	A
12.30-1.30 PM	AADT * 2.915	85	31.16	12.87	30.09	8.90	3000	6.3	A	A
12.30-1.30 PM	AADT * 2.915	85	32.51	13.43	31.39	9.29	3000	6.2	A	A
12.30-1.30 PM	AADT * 2.915	85	33.87	13.99	32.70	9.68	3000	6.1	A	A
12.30-1.30 PM	AADT * 2.915	85	35.22	14.55	34.01	10.06	3000	6	A	A
12.30-1.30 PM	AADT * 2.915	85	36.57	15.11	35.32	10.45	3000	5.9	A	A
12.30-1.30 PM	AADT * 2.915	85	37.93	15.67	36.63	10.84	3000	5.8	A	A
12.30-1.30 PM	AADT * 2.915	85	39.28	16.23	37.93	11.22	3000	5.8	A	A
12.30-1.30 PM	AADT * 2.915	85	40.64	16.79	39.24	11.61	3000	5.7	A	A
12.30-1.30 PM	AADT *3.887	85	13.55	5.60	13.08	3.87	4000	133.4	F	F
12.30-1.30 PM	AADT *3.887	85	14.90	6.15	14.39	4.26	4000	124.6	F	F
12.30-1.30 PM	AADT *3.887	85	16.26	6.71	15.70	4.64	4000	116.8	F	F
12.30-1.30 PM	AADT *3.887	85	17.61	7.27	17.00	5.03	4000	109.9	F	F
12.30-1.30 PM	AADT *3.887	85	18.96	7.83	18.31	5.42	4000	103.8	F	F
12.30-1.30 PM	AADT *3.887	85	20.32	8.39	19.62	5.81	4000	98.2	F	F
12.30-1.30 PM	AADT *3.887	85	21.67	8.95	20.93	6.19	4000	93.2	F	F
12.30-1.30 PM	AADT *3.887	85	23.03	9.51	22.24	6.58	4000	89	F	F
12.30-1.30 PM	AADT *3.887	85	24.38	10.07	23.54	6.97	4000	85.2	F	F
12.30-1.30 PM	AADT *3.887	85	25.74	10.63	24.85	7.35	4000	81.7	F	F
12.30-1.30 PM	AADT *3.887	85	27.09	11.19	26.16	7.74	4000	78.6	E	F
12.30-1.30 PM	AADT *3.887	85	28.45	11.75	27.47	8.13	4000	75.6	E	F
12.30-1.30 PM	AADT *3.887	85	29.80	12.31	28.78	8.51	4000	72.9	E	F
12.30-1.30 PM	AADT *3.887	85	31.16	12.87	30.09	8.90	4000	70.3	E	F
12.30-1.30 PM	AADT *3.887	85	32.51	13.43	31.39	9.29	4000	67.9	E	F
12.30-1.30 PM	AADT *3.887	85	33.87	13.99	32.70	9.68	4000	65.7	E	F
12.30-1.30 PM	AADT *3.887	85	35.22	14.55	34.01	10.06	4000	63.6	E	F
12.30-1.30 PM	AADT *3.887	85	36.57	15.11	35.32	10.45	4000	61.6	E	F
12.30-1.30 PM	AADT *3.887	85	37.93	15.67	36.63	10.84	4000	59.8	E	F
12.30-1.30 PM	AADT *3.887	85	39.28	16.23	37.93	11.22	4000	58.1	E	F
12.30-1.30 PM	AADT *3.887	85	40.64	16.79	39.24	11.61	4000	56.5	E	F
4.30-5.30 PM	AADT * 1	85	13.55	5.60	13.08	3.87	1865	3.8	A	A
4.30-5.30 PM	AADT * 1	85	14.90	6.15	14.39	4.26	1865	3.7	A	A
4.30-5.30 PM	AADT * 1	85	16.26	6.71	15.70	4.64	1865	3.6	A	A
4.30-5.30 PM	AADT * 1	85	17.61	7.27	17.00	5.03	1865	3.6	A	A
4.30-5.30 PM	AADT * 1	85	18.96	7.83	18.31	5.42	1865	3.5	A	A
4.30-5.30 PM	AADT * 1	85	20.32	8.39	19.62	5.81	1865	3.4	A	A
4.30-5.30 PM	AADT * 1	85	21.67	8.95	20.93	6.19	1865	3.4	A	A

4.30-5.30 PM	AADT * 1	85	23.03	9.51	22.24	6.58	1865	3.3	A	A
4.30-5.30 PM	AADT * 1	85	24.38	10.07	23.54	6.97	1865	3.3	A	A
4.30-5.30 PM	AADT * 1	85	25.74	10.63	24.85	7.35	1865	3.3	A	A
4.30-5.30 PM	AADT * 1	85	27.09	11.19	26.16	7.74	1865	3.2	A	A
4.30-5.30 PM	AADT * 1	85	28.45	11.75	27.47	8.13	1865	3.2	A	A
4.30-5.30 PM	AADT * 1	85	29.80	12.31	28.78	8.51	1865	3.2	A	A
4.30-5.30 PM	AADT * 1	85	31.16	12.87	30.09	8.90	1865	3.1	A	A
4.30-5.30 PM	AADT * 1	85	32.51	13.43	31.39	9.29	1865	3.1	A	A
4.30-5.30 PM	AADT * 1	85	33.87	13.99	32.70	9.68	1865	3.1	A	A
4.30-5.30 PM	AADT * 1	85	35.22	14.55	34.01	10.06	1865	3	A	A
4.30-5.30 PM	AADT * 1	85	36.57	15.11	35.32	10.45	1865	3	A	A
4.30-5.30 PM	AADT * 1	85	37.93	15.67	36.63	10.84	1865	3	A	A
4.30-5.30 PM	AADT * 1	85	39.28	16.23	37.93	11.22	1865	3	A	A
4.30-5.30 PM	AADT * 1	85	40.64	16.79	39.24	11.61	1865	3	A	A
4.30-5.30 PM	AADT * 1.072	85	13.55	5.60	13.08	3.87	2000	4.1	A	A
4.30-5.30 PM	AADT * 1.072	85	14.90	6.15	14.39	4.26	2000	4	A	A
4.30-5.30 PM	AADT * 1.072	85	16.26	6.71	15.70	4.64	2000	3.9	A	A
4.30-5.30 PM	AADT * 1.072	85	17.61	7.27	17.00	5.03	2000	3.8	A	A
4.30-5.30 PM	AADT * 1.072	85	18.96	7.83	18.31	5.42	2000	3.7	A	A
4.30-5.30 PM	AADT * 1.072	85	20.32	8.39	19.62	5.81	2000	3.7	A	A
4.30-5.30 PM	AADT * 1.072	85	21.67	8.95	20.93	6.19	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	23.03	9.51	22.24	6.58	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	24.38	10.07	23.54	6.97	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.072	85	25.74	10.63	24.85	7.35	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.072	85	27.09	11.19	26.16	7.74	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.072	85	28.45	11.75	27.47	8.13	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.072	85	29.80	12.31	28.78	8.51	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.072	85	31.16	12.87	30.09	8.90	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.072	85	32.51	13.43	31.39	9.29	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.072	85	33.87	13.99	32.70	9.68	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.072	85	35.22	14.55	34.01	10.06	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.072	85	36.57	15.11	35.32	10.45	2000	3.2	A	A
4.30-5.30 PM	AADT * 1.072	85	37.93	15.67	36.63	10.84	2000	3.2	A	A
4.30-5.30 PM	AADT * 1.072	85	39.28	16.23	37.93	11.22	2000	3.2	A	A
4.30-5.30 PM	AADT * 1.072	85	40.64	16.79	39.24	11.61	2000	3.2	A	A
4.30-5.30 PM	AADT * 1.608	85	13.55	5.60	13.08	3.87	3000	18.8	B	C
4.30-5.30 PM	AADT * 1.608	85	14.90	6.15	14.39	4.26	3000	15.6	B	C
4.30-5.30 PM	AADT * 1.608	85	16.26	6.71	15.70	4.64	3000	13.4	B	B
4.30-5.30 PM	AADT * 1.608	85	17.61	7.27	17.00	5.03	3000	11.8	B	B
4.30-5.30 PM	AADT * 1.608	85	18.96	7.83	18.31	5.42	3000	10.6	B	B
4.30-5.30 PM	AADT * 1.608	85	20.32	8.39	19.62	5.81	3000	9.8	A	A
4.30-5.30 PM	AADT * 1.608	85	21.67	8.95	20.93	6.19	3000	9.1	A	A
4.30-5.30 PM	AADT * 1.608	85	23.03	9.51	22.24	6.58	3000	8.6	A	A
4.30-5.30 PM	AADT * 1.608	85	24.38	10.07	23.54	6.97	3000	8.2	A	A
4.30-5.30 PM	AADT * 1.608	85	25.74	10.63	24.85	7.35	3000	7.9	A	A
4.30-5.30 PM	AADT * 1.608	85	27.09	11.19	26.16	7.74	3000	7.6	A	A
4.30-5.30 PM	AADT * 1.608	85	28.45	11.75	27.47	8.13	3000	7.3	A	A
4.30-5.30 PM	AADT * 1.608	85	29.80	12.31	28.78	8.51	3000	7.1	A	A

4.30-5.30 PM	AADT * 1.608	85	31.16	12.87	30.09	8.90	3000	6.9	A	A
4.30-5.30 PM	AADT * 1.608	85	32.51	13.43	31.39	9.29	3000	6.8	A	A
4.30-5.30 PM	AADT * 1.608	85	33.87	13.99	32.70	9.68	3000	6.6	A	A
4.30-5.30 PM	AADT * 1.608	85	35.22	14.55	34.01	10.06	3000	6.5	A	A
4.30-5.30 PM	AADT * 1.608	85	36.57	15.11	35.32	10.45	3000	6.4	A	A
4.30-5.30 PM	AADT * 1.608	85	37.93	15.67	36.63	10.84	3000	6.3	A	A
4.30-5.30 PM	AADT * 1.608	85	39.28	16.23	37.93	11.22	3000	6.2	A	A
4.30-5.30 PM	AADT * 1.608	85	40.64	16.79	39.24	11.61	3000	6.1	A	A
4.30-5.30 PM	AADT * 2.144	85	13.55	5.60	13.08	3.87	4000	173.5	F	F
4.30-5.30 PM	AADT * 2.144	85	14.90	6.15	14.39	4.26	4000	162.5	F	F
4.30-5.30 PM	AADT * 2.144	85	16.26	6.71	15.70	4.64	4000	152.8	F	F
4.30-5.30 PM	AADT * 2.144	85	17.61	7.27	17.00	5.03	4000	144.3	F	F
4.30-5.30 PM	AADT * 2.144	85	18.96	7.83	18.31	5.42	4000	136.7	F	F
4.30-5.30 PM	AADT * 2.144	85	20.32	8.39	19.62	5.81	4000	129.9	F	F
4.30-5.30 PM	AADT * 2.144	85	21.67	8.95	20.93	6.19	4000	123.9	F	F
4.30-5.30 PM	AADT * 2.144	85	23.03	9.51	22.24	6.58	4000	118.5	F	F
4.30-5.30 PM	AADT * 2.144	85	24.38	10.07	23.54	6.97	4000	113.6	F	F
4.30-5.30 PM	AADT * 2.144	85	25.74	10.63	24.85	7.35	4000	109.2	F	F
4.30-5.30 PM	AADT * 2.144	85	27.09	11.19	26.16	7.74	4000	105.3	F	F
4.30-5.30 PM	AADT * 2.144	85	28.45	11.75	27.47	8.13	4000	101.8	F	F
4.30-5.30 PM	AADT * 2.144	85	29.80	12.31	28.78	8.51	4000	98.5	F	F
4.30-5.30 PM	AADT * 2.144	85	31.16	12.87	30.09	8.90	4000	95.5	F	F
4.30-5.30 PM	AADT * 2.144	85	32.51	13.43	31.39	9.29	4000	92.8	F	F
4.30-5.30 PM	AADT * 2.144	85	33.87	13.99	32.70	9.68	4000	90.2	F	F
4.30-5.30 PM	AADT * 2.144	85	35.22	14.55	34.01	10.06	4000	87.9	F	F
4.30-5.30 PM	AADT * 2.144	85	36.57	15.11	35.32	10.45	4000	85.7	F	F
4.30-5.30 PM	AADT * 2.144	85	37.93	15.67	36.63	10.84	4000	83.6	F	F
4.30-5.30 PM	AADT * 2.144	85	39.28	16.23	37.93	11.22	4000	81.7	F	F
4.30-5.30 PM	AADT * 2.144	85	40.64	16.79	39.24	11.61	4000	79.9	E	F

Entry Radius for Erb/Erbsville/Ira-Needle Roundabout

Timeframe	AADT Assumptions	CL	ENTRY RADIUS- ERBSVILLE	ENTRY RADIUS - ERB ST. EAST	ENTRY RADIUS - IRA NEEDLE	ENTRY RADIUS-- ERB ST. WEST	AADT	AVERAGE DELAY	LOS SIG	LOS UNSIG
8.30-9.30 AM	AADT * 1	50	12.15	19.50	12.15	15.15	1688	2.9	A	A
8.30-9.30 AM	AADT * 1	50	13.37	21.45	13.37	16.67	1688	2.8	A	A
8.30-9.30 AM	AADT * 1	50	14.58	23.40	14.58	18.18	1688	2.8	A	A
8.30-9.30 AM	AADT * 1	50	15.80	25.35	15.80	19.70	1688	2.8	A	A
8.30-9.30 AM	AADT * 1	50	17.01	27.30	17.01	21.21	1688	2.8	A	A
8.30-9.30 AM	AADT * 1	50	18.23	29.25	18.23	22.73	1688	2.8	A	A
8.30-9.30 AM	AADT * 1	50	19.44	31.20	19.44	24.24	1688	2.8	A	A
8.30-9.30 AM	AADT * 1	50	20.66	33.15	20.66	25.76	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	21.87	35.10	21.87	27.27	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	23.09	37.05	23.09	28.79	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	24.30	39.00	24.30	30.30	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	25.52	40.95	25.52	31.82	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	26.73	42.90	26.73	33.33	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	27.95	44.85	27.95	34.85	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	29.16	46.80	29.16	36.36	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	30.38	48.75	30.38	37.88	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	31.59	50.70	31.59	39.39	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	32.81	52.65	32.81	40.91	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	34.02	54.60	34.02	42.42	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	35.24	56.55	35.24	43.94	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	36.45	58.50	36.45	45.45	1688	2.7	A	A
8.30-9.30 AM	AADT * 1.185	50	12.15	19.50	12.15	15.15	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.185	50	13.37	21.45	13.37	16.67	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.185	50	14.58	23.40	14.58	18.18	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.185	50	15.80	25.35	15.80	19.70	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.185	50	17.01	27.30	17.01	21.21	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.185	50	18.23	29.25	18.23	22.73	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	19.44	31.20	19.44	24.24	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	20.66	33.15	20.66	25.76	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	21.87	35.10	21.87	27.27	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	23.09	37.05	23.09	28.79	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	24.30	39.00	24.30	30.30	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	25.52	40.95	25.52	31.82	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	26.73	42.90	26.73	33.33	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	27.95	44.85	27.95	34.85	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	29.16	46.80	29.16	36.36	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	30.38	48.75	30.38	37.88	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	31.59	50.70	31.59	39.39	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	32.81	52.65	32.81	40.91	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	34.02	54.60	34.02	42.42	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	35.24	56.55	35.24	43.94	2000	3	A	A
8.30-9.30 AM	AADT * 1.185	50	36.45	58.50	36.45	45.45	2000	3	A	A
8.30-9.30 AM	AADT * 1.777	50	12.15	19.50	12.15	15.15	3000	6.2	A	A

8.30-9.30 AM	AADT * 1.777	50	13.37	21.45	13.37	16.67	3000	6.1	A	A
8.30-9.30 AM	AADT * 1.777	50	14.58	23.40	14.58	18.18	3000	6	A	A
8.30-9.30 AM	AADT * 1.777	50	15.80	25.35	15.80	19.70	3000	5.9	A	A
8.30-9.30 AM	AADT * 1.777	50	17.01	27.30	17.01	21.21	3000	5.8	A	A
8.30-9.30 AM	AADT * 1.777	50	18.23	29.25	18.23	22.73	3000	5.8	A	A
8.30-9.30 AM	AADT * 1.777	50	19.44	31.20	19.44	24.24	3000	5.7	A	A
8.30-9.30 AM	AADT * 1.777	50	20.66	33.15	20.66	25.76	3000	5.7	A	A
8.30-9.30 AM	AADT * 1.777	50	21.87	35.10	21.87	27.27	3000	5.7	A	A
8.30-9.30 AM	AADT * 1.777	50	23.09	37.05	23.09	28.79	3000	5.6	A	A
8.30-9.30 AM	AADT * 1.777	50	24.30	39.00	24.30	30.30	3000	5.6	A	A
8.30-9.30 AM	AADT * 1.777	50	25.52	40.95	25.52	31.82	3000	5.6	A	A
8.30-9.30 AM	AADT * 1.777	50	26.73	42.90	26.73	33.33	3000	5.6	A	A
8.30-9.30 AM	AADT * 1.777	50	27.95	44.85	27.95	34.85	3000	5.6	A	A
8.30-9.30 AM	AADT * 1.777	50	29.16	46.80	29.16	36.36	3000	5.5	A	A
8.30-9.30 AM	AADT * 1.777	50	30.38	48.75	30.38	37.88	3000	5.5	A	A
8.30-9.30 AM	AADT * 1.777	50	31.59	50.70	31.59	39.39	3000	5.5	A	A
8.30-9.30 AM	AADT * 1.777	50	32.81	52.65	32.81	40.91	3000	5.5	A	A
8.30-9.30 AM	AADT * 1.777	50	34.02	54.60	34.02	42.42	3000	5.5	A	A
8.30-9.30 AM	AADT * 1.777	50	35.24	56.55	35.24	43.94	3000	5.5	A	A
8.30-9.30 AM	AADT * 1.777	50	36.45	58.50	36.45	45.45	3000	5.5	A	A
8.30-9.30 AM	AADT * 2.37	50	12.15	19.50	12.15	15.15	4000	64.7	E	F
8.30-9.30 AM	AADT * 2.37	50	13.37	21.45	13.37	16.67	4000	62.5	E	F
8.30-9.30 AM	AADT * 2.37	50	14.58	23.40	14.58	18.18	4000	60.6	E	F
8.30-9.30 AM	AADT * 2.37	50	15.80	25.35	15.80	19.70	4000	59.1	E	F
8.30-9.30 AM	AADT * 2.37	50	17.01	27.30	17.01	21.21	4000	57.8	E	F
8.30-9.30 AM	AADT * 2.37	50	18.23	29.25	18.23	22.73	4000	56.8	E	F
8.30-9.30 AM	AADT * 2.37	50	19.44	31.20	19.44	24.24	4000	55.9	E	F
8.30-9.30 AM	AADT * 2.37	50	20.66	33.15	20.66	25.76	4000	55.2	E	F
8.30-9.30 AM	AADT * 2.37	50	21.87	35.10	21.87	27.27	4000	54.5	D	F
8.30-9.30 AM	AADT * 2.37	50	23.09	37.05	23.09	28.79	4000	53.9	D	F
8.30-9.30 AM	AADT * 2.37	50	24.30	39.00	24.30	30.30	4000	53.4	D	F
8.30-9.30 AM	AADT * 2.37	50	25.52	40.95	25.52	31.82	4000	52.9	D	F
8.30-9.30 AM	AADT * 2.37	50	26.73	42.90	26.73	33.33	4000	52.5	D	F
8.30-9.30 AM	AADT * 2.37	50	27.95	44.85	27.95	34.85	4000	52.1	D	F
8.30-9.30 AM	AADT * 2.37	50	29.16	46.80	29.16	36.36	4000	51.7	D	F
8.30-9.30 AM	AADT * 2.37	50	30.38	48.75	30.38	37.88	4000	51.4	D	F
8.30-9.30 AM	AADT * 2.37	50	31.59	50.70	31.59	39.39	4000	51.1	D	F
8.30-9.30 AM	AADT * 2.37	50	32.81	52.65	32.81	40.91	4000	50.8	D	F
8.30-9.30 AM	AADT * 2.37	50	34.02	54.60	34.02	42.42	4000	50.6	D	F
8.30-9.30 AM	AADT * 2.37	50	35.24	56.55	35.24	43.94	4000	50.3	D	F
8.30-9.30 AM	AADT * 2.37	50	36.45	58.50	36.45	45.45	4000	50.1	D	F
12.30-1.30 PM	AADT * 1	50	12.15	19.50	12.15	15.15	1029	2.2	A	A
12.30-1.30 PM	AADT * 1	50	13.37	21.45	13.37	16.67	1029	2.2	A	A
12.30-1.30 PM	AADT * 1	50	14.58	23.40	14.58	18.18	1029	2.2	A	A
12.30-1.30 PM	AADT * 1	50	15.80	25.35	15.80	19.70	1029	2.2	A	A
12.30-1.30 PM	AADT * 1	50	17.01	27.30	17.01	21.21	1029	2.2	A	A
12.30-1.30 PM	AADT * 1	50	18.23	29.25	18.23	22.73	1029	2.2	A	A
12.30-1.30 PM	AADT * 1	50	19.44	31.20	19.44	24.24	1029	2.2	A	A

12.30-1.30 PM	AADT * 1	50	20.66	33.15	20.66	25.76	1029	2.2	A	A
12.30-1.30 PM	AADT * 1	50	21.87	35.10	21.87	27.27	1029	2.2	A	A
12.30-1.30 PM	AADT * 1	50	23.09	37.05	23.09	28.79	1029	2.2	A	A
12.30-1.30 PM	AADT * 1	50	24.30	39.00	24.30	30.30	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	25.52	40.95	25.52	31.82	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	26.73	42.90	26.73	33.33	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	27.95	44.85	27.95	34.85	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	29.16	46.80	29.16	36.36	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	30.38	48.75	30.38	37.88	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	31.59	50.70	31.59	39.39	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	32.81	52.65	32.81	40.91	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	34.02	54.60	34.02	42.42	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	35.24	56.55	35.24	43.94	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	36.45	58.50	36.45	45.45	1029	2.1	A	A
12.30-1.30 PM	AADT * 1.94	50	12.15	19.50	12.15	15.15	2000	3.1	A	A
12.30-1.30 PM	AADT * 1.94	50	13.37	21.45	13.37	16.67	2000	3	A	A
12.30-1.30 PM	AADT * 1.94	50	14.58	23.40	14.58	18.18	2000	3	A	A
12.30-1.30 PM	AADT * 1.94	50	15.80	25.35	15.80	19.70	2000	3	A	A
12.30-1.30 PM	AADT * 1.94	50	17.01	27.30	17.01	21.21	2000	3	A	A
12.30-1.30 PM	AADT * 1.94	50	18.23	29.25	18.23	22.73	2000	3	A	A
12.30-1.30 PM	AADT * 1.94	50	19.44	31.20	19.44	24.24	2000	3	A	A
12.30-1.30 PM	AADT * 1.94	50	20.66	33.15	20.66	25.76	2000	3	A	A
12.30-1.30 PM	AADT * 1.94	50	21.87	35.10	21.87	27.27	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	23.09	37.05	23.09	28.79	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	24.30	39.00	24.30	30.30	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	25.52	40.95	25.52	31.82	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	26.73	42.90	26.73	33.33	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	27.95	44.85	27.95	34.85	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	29.16	46.80	29.16	36.36	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	30.38	48.75	30.38	37.88	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	31.59	50.70	31.59	39.39	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	32.81	52.65	32.81	40.91	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	34.02	54.60	34.02	42.42	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	35.24	56.55	35.24	43.94	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	36.45	58.50	36.45	45.45	2000	2.9	A	A
12.30-1.30 PM	AADT * 2.915	50	12.15	19.50	12.15	15.15	3000	5.3	A	A
12.30-1.30 PM	AADT * 2.915	50	13.37	21.45	13.37	16.67	3000	5.2	A	A
12.30-1.30 PM	AADT * 2.915	50	14.58	23.40	14.58	18.18	3000	5.1	A	A
12.30-1.30 PM	AADT * 2.915	50	15.80	25.35	15.80	19.70	3000	5.1	A	A
12.30-1.30 PM	AADT * 2.915	50	17.01	27.30	17.01	21.21	3000	5	A	A
12.30-1.30 PM	AADT * 2.915	50	18.23	29.25	18.23	22.73	3000	5	A	A
12.30-1.30 PM	AADT * 2.915	50	19.44	31.20	19.44	24.24	3000	5	A	A
12.30-1.30 PM	AADT * 2.915	50	20.66	33.15	20.66	25.76	3000	4.9	A	A
12.30-1.30 PM	AADT * 2.915	50	21.87	35.10	21.87	27.27	3000	4.9	A	A
12.30-1.30 PM	AADT * 2.915	50	23.09	37.05	23.09	28.79	3000	4.9	A	A
12.30-1.30 PM	AADT * 2.915	50	24.30	39.00	24.30	30.30	3000	4.9	A	A
12.30-1.30 PM	AADT * 2.915	50	25.52	40.95	25.52	31.82	3000	4.9	A	A
12.30-1.30 PM	AADT * 2.915	50	26.73	42.90	26.73	33.33	3000	4.9	A	A

12.30-1.30 PM	AADT * 2.915	50	27.95	44.85	27.95	34.85	3000	4.8	A	A
12.30-1.30 PM	AADT * 2.915	50	29.16	46.80	29.16	36.36	3000	4.8	A	A
12.30-1.30 PM	AADT * 2.915	50	30.38	48.75	30.38	37.88	3000	4.8	A	A
12.30-1.30 PM	AADT * 2.915	50	31.59	50.70	31.59	39.39	3000	4.8	A	A
12.30-1.30 PM	AADT * 2.915	50	32.81	52.65	32.81	40.91	3000	4.8	A	A
12.30-1.30 PM	AADT * 2.915	50	34.02	54.60	34.02	42.42	3000	4.8	A	A
12.30-1.30 PM	AADT * 2.915	50	35.24	56.55	35.24	43.94	3000	4.8	A	A
12.30-1.30 PM	AADT * 2.915	50	36.45	58.50	36.45	45.45	3000	4.8	A	A
12.30-1.30 PM	AADT *3.887	50	12.15	19.50	12.15	15.15	4000	38.5	D	E
12.30-1.30 PM	AADT *3.887	50	13.37	21.45	13.37	16.67	4000	36.9	D	E
12.30-1.30 PM	AADT *3.887	50	14.58	23.40	14.58	18.18	4000	35.7	D	E
12.30-1.30 PM	AADT *3.887	50	15.80	25.35	15.80	19.70	4000	34.6	C	D
12.30-1.30 PM	AADT *3.887	50	17.01	27.30	17.01	21.21	4000	33.7	C	D
12.30-1.30 PM	AADT *3.887	50	18.23	29.25	18.23	22.73	4000	33	C	D
12.30-1.30 PM	AADT *3.887	50	19.44	31.20	19.44	24.24	4000	32.3	C	D
12.30-1.30 PM	AADT *3.887	50	20.66	33.15	20.66	25.76	4000	31.8	C	D
12.30-1.30 PM	AADT *3.887	50	21.87	35.10	21.87	27.27	4000	31.4	C	D
12.30-1.30 PM	AADT *3.887	50	23.09	37.05	23.09	28.79	4000	31	C	D
12.30-1.30 PM	AADT *3.887	50	24.30	39.00	24.30	30.30	4000	30.7	C	D
12.30-1.30 PM	AADT *3.887	50	25.52	40.95	25.52	31.82	4000	30.5	C	D
12.30-1.30 PM	AADT *3.887	50	26.73	42.90	26.73	33.33	4000	30.2	C	D
12.30-1.30 PM	AADT *3.887	50	27.95	44.85	27.95	34.85	4000	30	C	D
12.30-1.30 PM	AADT *3.887	50	29.16	46.80	29.16	36.36	4000	29.8	C	D
12.30-1.30 PM	AADT *3.887	50	30.38	48.75	30.38	37.88	4000	29.6	C	D
12.30-1.30 PM	AADT *3.887	50	31.59	50.70	31.59	39.39	4000	29.5	C	D
12.30-1.30 PM	AADT *3.887	50	32.81	52.65	32.81	40.91	4000	29.3	C	D
12.30-1.30 PM	AADT *3.887	50	34.02	54.60	34.02	42.42	4000	29.2	C	D
12.30-1.30 PM	AADT *3.887	50	35.24	56.55	35.24	43.94	4000	29	C	D
12.30-1.30 PM	AADT *3.887	50	36.45	58.50	36.45	45.45	4000	28.9	C	D
4.30-5.30 PM	AADT * 1	50	12.15	19.50	12.15	15.15	1865	2.9	A	A
4.30-5.30 PM	AADT * 1	50	13.37	21.45	13.37	16.67	1865	2.9	A	A
4.30-5.30 PM	AADT * 1	50	14.58	23.40	14.58	18.18	1865	2.9	A	A
4.30-5.30 PM	AADT * 1	50	15.80	25.35	15.80	19.70	1865	2.9	A	A
4.30-5.30 PM	AADT * 1	50	17.01	27.30	17.01	21.21	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	18.23	29.25	18.23	22.73	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	19.44	31.20	19.44	24.24	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	20.66	33.15	20.66	25.76	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	21.87	35.10	21.87	27.27	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	23.09	37.05	23.09	28.79	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	24.30	39.00	24.30	30.30	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	25.52	40.95	25.52	31.82	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	26.73	42.90	26.73	33.33	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	27.95	44.85	27.95	34.85	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	29.16	46.80	29.16	36.36	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	30.38	48.75	30.38	37.88	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	31.59	50.70	31.59	39.39	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	32.81	52.65	32.81	40.91	1865	2.7	A	A
4.30-5.30 PM	AADT * 1	50	34.02	54.60	34.02	42.42	1865	2.7	A	A

4.30-5.30 PM	AADT * 1	50	35.24	56.55	35.24	43.94	1865	2.7	A	A
4.30-5.30 PM	AADT * 1	50	36.45	58.50	36.45	45.45	1865	2.7	A	A
4.30-5.30 PM	AADT * 1.072	50	12.15	19.50	12.15	15.15	2000	3.1	A	A
4.30-5.30 PM	AADT * 1.072	50	13.37	21.45	13.37	16.67	2000	3.1	A	A
4.30-5.30 PM	AADT * 1.072	50	14.58	23.40	14.58	18.18	2000	3.1	A	A
4.30-5.30 PM	AADT * 1.072	50	15.80	25.35	15.80	19.70	2000	3	A	A
4.30-5.30 PM	AADT * 1.072	50	17.01	27.30	17.01	21.21	2000	3	A	A
4.30-5.30 PM	AADT * 1.072	50	18.23	29.25	18.23	22.73	2000	3	A	A
4.30-5.30 PM	AADT * 1.072	50	19.44	31.20	19.44	24.24	2000	3	A	A
4.30-5.30 PM	AADT * 1.072	50	20.66	33.15	20.66	25.76	2000	3	A	A
4.30-5.30 PM	AADT * 1.072	50	21.87	35.10	21.87	27.27	2000	3	A	A
4.30-5.30 PM	AADT * 1.072	50	23.09	37.05	23.09	28.79	2000	3	A	A
4.30-5.30 PM	AADT * 1.072	50	24.30	39.00	24.30	30.30	2000	3	A	A
4.30-5.30 PM	AADT * 1.072	50	25.52	40.95	25.52	31.82	2000	3	A	A
4.30-5.30 PM	AADT * 1.072	50	26.73	42.90	26.73	33.33	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	27.95	44.85	27.95	34.85	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	29.16	46.80	29.16	36.36	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	30.38	48.75	30.38	37.88	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	31.59	50.70	31.59	39.39	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	32.81	52.65	32.81	40.91	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	34.02	54.60	34.02	42.42	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	35.24	56.55	35.24	43.94	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	36.45	58.50	36.45	45.45	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.608	50	12.15	19.50	12.15	15.15	3000	5.7	A	A
4.30-5.30 PM	AADT * 1.608	50	13.37	21.45	13.37	16.67	3000	5.6	A	A
4.30-5.30 PM	AADT * 1.608	50	14.58	23.40	14.58	18.18	3000	5.5	A	A
4.30-5.30 PM	AADT * 1.608	50	15.80	25.35	15.80	19.70	3000	5.5	A	A
4.30-5.30 PM	AADT * 1.608	50	17.01	27.30	17.01	21.21	3000	5.4	A	A
4.30-5.30 PM	AADT * 1.608	50	18.23	29.25	18.23	22.73	3000	5.3	A	A
4.30-5.30 PM	AADT * 1.608	50	19.44	31.20	19.44	24.24	3000	5.3	A	A
4.30-5.30 PM	AADT * 1.608	50	20.66	33.15	20.66	25.76	3000	5.3	A	A
4.30-5.30 PM	AADT * 1.608	50	21.87	35.10	21.87	27.27	3000	5.2	A	A
4.30-5.30 PM	AADT * 1.608	50	23.09	37.05	23.09	28.79	3000	5.2	A	A
4.30-5.30 PM	AADT * 1.608	50	24.30	39.00	24.30	30.30	3000	5.2	A	A
4.30-5.30 PM	AADT * 1.608	50	25.52	40.95	25.52	31.82	3000	5.1	A	A
4.30-5.30 PM	AADT * 1.608	50	26.73	42.90	26.73	33.33	3000	5.1	A	A
4.30-5.30 PM	AADT * 1.608	50	27.95	44.85	27.95	34.85	3000	5.1	A	A
4.30-5.30 PM	AADT * 1.608	50	29.16	46.80	29.16	36.36	3000	5.1	A	A
4.30-5.30 PM	AADT * 1.608	50	30.38	48.75	30.38	37.88	3000	5.1	A	A
4.30-5.30 PM	AADT * 1.608	50	31.59	50.70	31.59	39.39	3000	5.1	A	A
4.30-5.30 PM	AADT * 1.608	50	32.81	52.65	32.81	40.91	3000	5	A	A
4.30-5.30 PM	AADT * 1.608	50	34.02	54.60	34.02	42.42	3000	5	A	A
4.30-5.30 PM	AADT * 1.608	50	35.24	56.55	35.24	43.94	3000	5	A	A
4.30-5.30 PM	AADT * 1.608	50	36.45	58.50	36.45	45.45	3000	5	A	A
4.30-5.30 PM	AADT * 2.144	50	12.15	19.50	12.15	15.15	4000	68.5	E	F
4.30-5.30 PM	AADT * 2.144	50	13.37	21.45	13.37	16.67	4000	66.2	E	F
4.30-5.30 PM	AADT * 2.144	50	14.58	23.40	14.58	18.18	4000	64.4	E	F
4.30-5.30 PM	AADT * 2.144	50	15.80	25.35	15.80	19.70	4000	62.8	E	F

4.30-5.30 PM	AADT * 2.144	50	17.01	27.30	17.01	21.21	4000	61.4	E	F
4.30-5.30 PM	AADT * 2.144	50	18.23	29.25	18.23	22.73	4000	60.3	E	F
4.30-5.30 PM	AADT * 2.144	50	19.44	31.20	19.44	24.24	4000	59.2	E	F
4.30-5.30 PM	AADT * 2.144	50	20.66	33.15	20.66	25.76	4000	58.4	E	F
4.30-5.30 PM	AADT * 2.144	50	21.87	35.10	21.87	27.27	4000	57.6	E	F
4.30-5.30 PM	AADT * 2.144	50	23.09	37.05	23.09	28.79	4000	56.9	E	F
4.30-5.30 PM	AADT * 2.144	50	24.30	39.00	24.30	30.30	4000	56.2	E	F
4.30-5.30 PM	AADT * 2.144	50	25.52	40.95	25.52	31.82	4000	55.7	E	F
4.30-5.30 PM	AADT * 2.144	50	26.73	42.90	26.73	33.33	4000	55.2	E	F
4.30-5.30 PM	AADT * 2.144	50	27.95	44.85	27.95	34.85	4000	54.7	D	F
4.30-5.30 PM	AADT * 2.144	50	29.16	46.80	29.16	36.36	4000	54.3	D	F
4.30-5.30 PM	AADT * 2.144	50	30.38	48.75	30.38	37.88	4000	53.9	D	F
4.30-5.30 PM	AADT * 2.144	50	31.59	50.70	31.59	39.39	4000	53.5	D	F
4.30-5.30 PM	AADT * 2.144	50	32.81	52.65	32.81	40.91	4000	53.2	D	F
4.30-5.30 PM	AADT * 2.144	50	34.02	54.60	34.02	42.42	4000	52.9	D	F
4.30-5.30 PM	AADT * 2.144	50	35.24	56.55	35.24	43.94	4000	52.6	D	F
4.30-5.30 PM	AADT * 2.144	50	36.45	58.50	36.45	45.45	4000	52.3	D	F
8.30-9.30 AM	AADT * 1	85	12.15	19.50	12.15	15.15	1688	3.5	A	A
8.30-9.30 AM	AADT * 1	85	13.37	21.45	13.37	16.67	1688	3.5	A	A
8.30-9.30 AM	AADT * 1	85	14.58	23.40	14.58	18.18	1688	3.4	A	A
8.30-9.30 AM	AADT * 1	85	15.80	25.35	15.80	19.70	1688	3.4	A	A
8.30-9.30 AM	AADT * 1	85	17.01	27.30	17.01	21.21	1688	3.4	A	A
8.30-9.30 AM	AADT * 1	85	18.23	29.25	18.23	22.73	1688	3.4	A	A
8.30-9.30 AM	AADT * 1	85	19.44	31.20	19.44	24.24	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	20.66	33.15	20.66	25.76	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	21.87	35.10	21.87	27.27	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	23.09	37.05	23.09	28.79	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	24.30	39.00	24.30	30.30	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	25.52	40.95	25.52	31.82	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	26.73	42.90	26.73	33.33	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	27.95	44.85	27.95	34.85	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	29.16	46.80	29.16	36.36	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	30.38	48.75	30.38	37.88	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	31.59	50.70	31.59	39.39	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	32.81	52.65	32.81	40.91	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	34.02	54.60	34.02	42.42	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	35.24	56.55	35.24	43.94	1688	3.2	A	A
8.30-9.30 AM	AADT * 1	85	36.45	58.50	36.45	45.45	1688	3.2	A	A
8.30-9.30 AM	AADT * 1.185	85	12.15	19.50	12.15	15.15	2000	4.1	A	A
8.30-9.30 AM	AADT * 1.185	85	13.37	21.45	13.37	16.67	2000	4	A	A
8.30-9.30 AM	AADT * 1.185	85	14.58	23.40	14.58	18.18	2000	4	A	A
8.30-9.30 AM	AADT * 1.185	85	15.80	25.35	15.80	19.70	2000	3.9	A	A
8.30-9.30 AM	AADT * 1.185	85	17.01	27.30	17.01	21.21	2000	3.9	A	A
8.30-9.30 AM	AADT * 1.185	85	18.23	29.25	18.23	22.73	2000	3.9	A	A
8.30-9.30 AM	AADT * 1.185	85	19.44	31.20	19.44	24.24	2000	3.9	A	A
8.30-9.30 AM	AADT * 1.185	85	20.66	33.15	20.66	25.76	2000	3.9	A	A
8.30-9.30 AM	AADT * 1.185	85	21.87	35.10	21.87	27.27	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.185	85	23.09	37.05	23.09	28.79	2000	3.8	A	A

8.30-9.30 AM	AADT * 1.185	85	24.30	39.00	24.30	30.30	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.185	85	25.52	40.95	25.52	31.82	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.185	85	26.73	42.90	26.73	33.33	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.185	85	27.95	44.85	27.95	34.85	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.185	85	29.16	46.80	29.16	36.36	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.185	85	30.38	48.75	30.38	37.88	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.185	85	31.59	50.70	31.59	39.39	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.185	85	32.81	52.65	32.81	40.91	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.185	85	34.02	54.60	34.02	42.42	2000	3.7	A	A
8.30-9.30 AM	AADT * 1.185	85	35.24	56.55	35.24	43.94	2000	3.7	A	A
8.30-9.30 AM	AADT * 1.185	85	36.45	58.50	36.45	45.45	2000	3.7	A	A
8.30-9.30 AM	AADT * 1.777	85	12.15	19.50	12.15	15.15	3000	11.1	B	B
8.30-9.30 AM	AADT * 1.777	85	13.37	21.45	13.37	16.67	3000	10.7	B	B
8.30-9.30 AM	AADT * 1.777	85	14.58	23.40	14.58	18.18	3000	10.4	B	B
8.30-9.30 AM	AADT * 1.777	85	15.80	25.35	15.80	19.70	3000	10.2	B	B
8.30-9.30 AM	AADT * 1.777	85	17.01	27.30	17.01	21.21	3000	10	B	B
8.30-9.30 AM	AADT * 1.777	85	18.23	29.25	18.23	22.73	3000	9.9	A	A
8.30-9.30 AM	AADT * 1.777	85	19.44	31.20	19.44	24.24	3000	9.7	A	A
8.30-9.30 AM	AADT * 1.777	85	20.66	33.15	20.66	25.76	3000	9.6	A	A
8.30-9.30 AM	AADT * 1.777	85	21.87	35.10	21.87	27.27	3000	9.5	A	A
8.30-9.30 AM	AADT * 1.777	85	23.09	37.05	23.09	28.79	3000	9.4	A	A
8.30-9.30 AM	AADT * 1.777	85	24.30	39.00	24.30	30.30	3000	9.4	A	A
8.30-9.30 AM	AADT * 1.777	85	25.52	40.95	25.52	31.82	3000	9.3	A	A
8.30-9.30 AM	AADT * 1.777	85	26.73	42.90	26.73	33.33	3000	9.2	A	A
8.30-9.30 AM	AADT * 1.777	85	27.95	44.85	27.95	34.85	3000	9.2	A	A
8.30-9.30 AM	AADT * 1.777	85	29.16	46.80	29.16	36.36	3000	9.1	A	A
8.30-9.30 AM	AADT * 1.777	85	30.38	48.75	30.38	37.88	3000	9.1	A	A
8.30-9.30 AM	AADT * 1.777	85	31.59	50.70	31.59	39.39	3000	9	A	A
8.30-9.30 AM	AADT * 1.777	85	32.81	52.65	32.81	40.91	3000	9	A	A
8.30-9.30 AM	AADT * 1.777	85	34.02	54.60	34.02	42.42	3000	9	A	A
8.30-9.30 AM	AADT * 1.777	85	35.24	56.55	35.24	43.94	3000	8.9	A	A
8.30-9.30 AM	AADT * 1.777	85	36.45	58.50	36.45	45.45	3000	8.9	A	A
8.30-9.30 AM	AADT * 2.37	85	12.15	19.50	12.15	15.15	4000	148.1	F	F
8.30-9.30 AM	AADT * 2.37	85	13.37	21.45	13.37	16.67	4000	144.6	F	F
8.30-9.30 AM	AADT * 2.37	85	14.58	23.40	14.58	18.18	4000	141.8	F	F
8.30-9.30 AM	AADT * 2.37	85	15.80	25.35	15.80	19.70	4000	139.5	F	F
8.30-9.30 AM	AADT * 2.37	85	17.01	27.30	17.01	21.21	4000	137.5	F	F
8.30-9.30 AM	AADT * 2.37	85	18.23	29.25	18.23	22.73	4000	135.8	F	F
8.30-9.30 AM	AADT * 2.37	85	19.44	31.20	19.44	24.24	4000	134.4	F	F
8.30-9.30 AM	AADT * 2.37	85	20.66	33.15	20.66	25.76	4000	133.1	F	F
8.30-9.30 AM	AADT * 2.37	85	21.87	35.10	21.87	27.27	4000	132	F	F
8.30-9.30 AM	AADT * 2.37	85	23.09	37.05	23.09	28.79	4000	131	F	F
8.30-9.30 AM	AADT * 2.37	85	24.30	39.00	24.30	30.30	4000	130.1	F	F
8.30-9.30 AM	AADT * 2.37	85	25.52	40.95	25.52	31.82	4000	129.4	F	F
8.30-9.30 AM	AADT * 2.37	85	26.73	42.90	26.73	33.33	4000	128.6	F	F
8.30-9.30 AM	AADT * 2.37	85	27.95	44.85	27.95	34.85	4000	128	F	F
8.30-9.30 AM	AADT * 2.37	85	29.16	46.80	29.16	36.36	4000	127.4	F	F
8.30-9.30 AM	AADT * 2.37	85	30.38	48.75	30.38	37.88	4000	126.9	F	F

8.30-9.30 AM	AADT * 2.37	85	31.59	50.70	31.59	39.39	4000	126.4	F	F
8.30-9.30 AM	AADT * 2.37	85	32.81	52.65	32.81	40.91	4000	125.9	F	F
8.30-9.30 AM	AADT * 2.37	85	34.02	54.60	34.02	42.42	4000	125.5	F	F
8.30-9.30 AM	AADT * 2.37	85	35.24	56.55	35.24	43.94	4000	125.1	F	F
8.30-9.30 AM	AADT * 2.37	85	36.45	58.50	36.45	45.45	4000	124.9	F	F
12.30-1.30 PM	AADT * 1	85	12.15	19.50	12.15	15.15	1029	2.6	A	A
12.30-1.30 PM	AADT * 1	85	13.37	21.45	13.37	16.67	1029	2.6	A	A
12.30-1.30 PM	AADT * 1	85	14.58	23.40	14.58	18.18	1029	2.5	A	A
12.30-1.30 PM	AADT * 1	85	15.80	25.35	15.80	19.70	1029	2.5	A	A
12.30-1.30 PM	AADT * 1	85	17.01	27.30	17.01	21.21	1029	2.5	A	A
12.30-1.30 PM	AADT * 1	85	18.23	29.25	18.23	22.73	1029	2.5	A	A
12.30-1.30 PM	AADT * 1	85	19.44	31.20	19.44	24.24	1029	2.5	A	A
12.30-1.30 PM	AADT * 1	85	20.66	33.15	20.66	25.76	1029	2.5	A	A
12.30-1.30 PM	AADT * 1	85	21.87	35.10	21.87	27.27	1029	2.5	A	A
12.30-1.30 PM	AADT * 1	85	23.09	37.05	23.09	28.79	1029	2.5	A	A
12.30-1.30 PM	AADT * 1	85	24.30	39.00	24.30	30.30	1029	2.5	A	A
12.30-1.30 PM	AADT * 1	85	25.52	40.95	25.52	31.82	1029	2.5	A	A
12.30-1.30 PM	AADT * 1	85	26.73	42.90	26.73	33.33	1029	2.5	A	A
12.30-1.30 PM	AADT * 1	85	27.95	44.85	27.95	34.85	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	29.16	46.80	29.16	36.36	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	30.38	48.75	30.38	37.88	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	31.59	50.70	31.59	39.39	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	32.81	52.65	32.81	40.91	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	34.02	54.60	34.02	42.42	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	35.24	56.55	35.24	43.94	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	36.45	58.50	36.45	45.45	1029	2.4	A	A
12.30-1.30 PM	AADT * 1.94	85	12.15	19.50	12.15	15.15	2000	3.8	A	A
12.30-1.30 PM	AADT * 1.94	85	13.37	21.45	13.37	16.67	2000	3.7	A	A
12.30-1.30 PM	AADT * 1.94	85	14.58	23.40	14.58	18.18	2000	3.7	A	A
12.30-1.30 PM	AADT * 1.94	85	15.80	25.35	15.80	19.70	2000	3.7	A	A
12.30-1.30 PM	AADT * 1.94	85	17.01	27.30	17.01	21.21	2000	3.7	A	A
12.30-1.30 PM	AADT * 1.94	85	18.23	29.25	18.23	22.73	2000	3.6	A	A
12.30-1.30 PM	AADT * 1.94	85	19.44	31.20	19.44	24.24	2000	3.6	A	A
12.30-1.30 PM	AADT * 1.94	85	20.66	33.15	20.66	25.76	2000	3.6	A	A
12.30-1.30 PM	AADT * 1.94	85	21.87	35.10	21.87	27.27	2000	3.6	A	A
12.30-1.30 PM	AADT * 1.94	85	23.09	37.05	23.09	28.79	2000	3.6	A	A
12.30-1.30 PM	AADT * 1.94	85	24.30	39.00	24.30	30.30	2000	3.6	A	A
12.30-1.30 PM	AADT * 1.94	85	25.52	40.95	25.52	31.82	2000	3.6	A	A
12.30-1.30 PM	AADT * 1.94	85	26.73	42.90	26.73	33.33	2000	3.5	A	A
12.30-1.30 PM	AADT * 1.94	85	27.95	44.85	27.95	34.85	2000	3.5	A	A
12.30-1.30 PM	AADT * 1.94	85	29.16	46.80	29.16	36.36	2000	3.5	A	A
12.30-1.30 PM	AADT * 1.94	85	30.38	48.75	30.38	37.88	2000	3.5	A	A
12.30-1.30 PM	AADT * 1.94	85	31.59	50.70	31.59	39.39	2000	3.5	A	A
12.30-1.30 PM	AADT * 1.94	85	32.81	52.65	32.81	40.91	2000	3.5	A	A
12.30-1.30 PM	AADT * 1.94	85	34.02	54.60	34.02	42.42	2000	3.5	A	A
12.30-1.30 PM	AADT * 1.94	85	35.24	56.55	35.24	43.94	2000	3.5	A	A
12.30-1.30 PM	AADT * 1.94	85	36.45	58.50	36.45	45.45	2000	3.5	A	A
12.30-1.30 PM	AADT * 2.915	85	12.15	19.50	12.15	15.15	3000	8.3	A	A

12.30-1.30 PM	AADT * 2.915	85	13.37	21.45	13.37	16.67	3000	8.1	A	A
12.30-1.30 PM	AADT * 2.915	85	14.58	23.40	14.58	18.18	3000	8	A	A
12.30-1.30 PM	AADT * 2.915	85	15.80	25.35	15.80	19.70	3000	7.8	A	A
12.30-1.30 PM	AADT * 2.915	85	17.01	27.30	17.01	21.21	3000	7.7	A	A
12.30-1.30 PM	AADT * 2.915	85	18.23	29.25	18.23	22.73	3000	7.6	A	A
12.30-1.30 PM	AADT * 2.915	85	19.44	31.20	19.44	24.24	3000	7.6	A	A
12.30-1.30 PM	AADT * 2.915	85	20.66	33.15	20.66	25.76	3000	7.5	A	A
12.30-1.30 PM	AADT * 2.915	85	21.87	35.10	21.87	27.27	3000	7.5	A	A
12.30-1.30 PM	AADT * 2.915	85	23.09	37.05	23.09	28.79	3000	7.4	A	A
12.30-1.30 PM	AADT * 2.915	85	24.30	39.00	24.30	30.30	3000	7.4	A	A
12.30-1.30 PM	AADT * 2.915	85	25.52	40.95	25.52	31.82	3000	7.3	A	A
12.30-1.30 PM	AADT * 2.915	85	26.73	42.90	26.73	33.33	3000	7.3	A	A
12.30-1.30 PM	AADT * 2.915	85	27.95	44.85	27.95	34.85	3000	7.3	A	A
12.30-1.30 PM	AADT * 2.915	85	29.16	46.80	29.16	36.36	3000	7.2	A	A
12.30-1.30 PM	AADT * 2.915	85	30.38	48.75	30.38	37.88	3000	7.2	A	A
12.30-1.30 PM	AADT * 2.915	85	31.59	50.70	31.59	39.39	3000	7.2	A	A
12.30-1.30 PM	AADT * 2.915	85	32.81	52.65	32.81	40.91	3000	7.2	A	A
12.30-1.30 PM	AADT * 2.915	85	34.02	54.60	34.02	42.42	3000	7.1	A	A
12.30-1.30 PM	AADT * 2.915	85	35.24	56.55	35.24	43.94	3000	7.1	A	A
12.30-1.30 PM	AADT * 2.915	85	36.45	58.50	36.45	45.45	3000	7.1	A	A
12.30-1.30 PM	AADT *3.887	85	12.15	19.50	12.15	15.15	4000	105.1	F	F
12.30-1.30 PM	AADT *3.887	85	13.37	21.45	13.37	16.67	4000	102.4	F	F
12.30-1.30 PM	AADT *3.887	85	14.58	23.40	14.58	18.18	4000	100.1	F	F
12.30-1.30 PM	AADT *3.887	85	15.80	25.35	15.80	19.70	4000	98.2	F	F
12.30-1.30 PM	AADT *3.887	85	17.01	27.30	17.01	21.21	4000	96.6	F	F
12.30-1.30 PM	AADT *3.887	85	18.23	29.25	18.23	22.73	4000	95.3	F	F
12.30-1.30 PM	AADT *3.887	85	19.44	31.20	19.44	24.24	4000	94.1	F	F
12.30-1.30 PM	AADT *3.887	85	20.66	33.15	20.66	25.76	4000	93	F	F
12.30-1.30 PM	AADT *3.887	85	21.87	35.10	21.87	27.27	4000	92.2	F	F
12.30-1.30 PM	AADT *3.887	85	23.09	37.05	23.09	28.79	4000	91.4	F	F
12.30-1.30 PM	AADT *3.887	85	24.30	39.00	24.30	30.30	4000	90.7	F	F
12.30-1.30 PM	AADT *3.887	85	25.52	40.95	25.52	31.82	4000	90.1	F	F
12.30-1.30 PM	AADT *3.887	85	26.73	42.90	26.73	33.33	4000	89.6	F	F
12.30-1.30 PM	AADT *3.887	85	27.95	44.85	27.95	34.85	4000	89.1	F	F
12.30-1.30 PM	AADT *3.887	85	29.16	46.80	29.16	36.36	4000	88.6	F	F
12.30-1.30 PM	AADT *3.887	85	30.38	48.75	30.38	37.88	4000	88.2	F	F
12.30-1.30 PM	AADT *3.887	85	31.59	50.70	31.59	39.39	4000	87.8	F	F
12.30-1.30 PM	AADT *3.887	85	32.81	52.65	32.81	40.91	4000	87.5	F	F
12.30-1.30 PM	AADT *3.887	85	34.02	54.60	34.02	42.42	4000	87.2	F	F
12.30-1.30 PM	AADT *3.887	85	35.24	56.55	35.24	43.94	4000	86.9	F	F
12.30-1.30 PM	AADT *3.887	85	36.45	58.50	36.45	45.45	4000	86.6	F	F
4.30-5.30 PM	AADT * 1	85	12.15	19.50	12.15	15.15	1865	3.6	A	A
4.30-5.30 PM	AADT * 1	85	13.37	21.45	13.37	16.67	1865	3.6	A	A
4.30-5.30 PM	AADT * 1	85	14.58	23.40	14.58	18.18	1865	3.5	A	A
4.30-5.30 PM	AADT * 1	85	15.80	25.35	15.80	19.70	1865	3.5	A	A
4.30-5.30 PM	AADT * 1	85	17.01	27.30	17.01	21.21	1865	3.5	A	A
4.30-5.30 PM	AADT * 1	85	18.23	29.25	18.23	22.73	1865	3.5	A	A
4.30-5.30 PM	AADT * 1	85	19.44	31.20	19.44	24.24	1865	3.4	A	A

4.30-5.30 PM	AADT * 1	85	20.66	33.15	20.66	25.76	1865	3.4	A	A
4.30-5.30 PM	AADT * 1	85	21.87	35.10	21.87	27.27	1865	3.4	A	A
4.30-5.30 PM	AADT * 1	85	23.09	37.05	23.09	28.79	1865	3.4	A	A
4.30-5.30 PM	AADT * 1	85	24.30	39.00	24.30	30.30	1865	3.4	A	A
4.30-5.30 PM	AADT * 1	85	25.52	40.95	25.52	31.82	1865	3.4	A	A
4.30-5.30 PM	AADT * 1	85	26.73	42.90	26.73	33.33	1865	3.4	A	A
4.30-5.30 PM	AADT * 1	85	27.95	44.85	27.95	34.85	1865	3.4	A	A
4.30-5.30 PM	AADT * 1	85	29.16	46.80	29.16	36.36	1865	3.4	A	A
4.30-5.30 PM	AADT * 1	85	30.38	48.75	30.38	37.88	1865	3.4	A	A
4.30-5.30 PM	AADT * 1	85	31.59	50.70	31.59	39.39	1865	3.4	A	A
4.30-5.30 PM	AADT * 1	85	32.81	52.65	32.81	40.91	1865	3.3	A	A
4.30-5.30 PM	AADT * 1	85	34.02	54.60	34.02	42.42	1865	3.3	A	A
4.30-5.30 PM	AADT * 1	85	35.24	56.55	35.24	43.94	1865	3.3	A	A
4.30-5.30 PM	AADT * 1	85	36.45	58.50	36.45	45.45	1865	3.3	A	A
4.30-5.30 PM	AADT * 1.072	85	12.15	19.50	12.15	15.15	2000	3.9	A	A
4.30-5.30 PM	AADT * 1.072	85	13.37	21.45	13.37	16.67	2000	3.8	A	A
4.30-5.30 PM	AADT * 1.072	85	14.58	23.40	14.58	18.18	2000	3.8	A	A
4.30-5.30 PM	AADT * 1.072	85	15.80	25.35	15.80	19.70	2000	3.7	A	A
4.30-5.30 PM	AADT * 1.072	85	17.01	27.30	17.01	21.21	2000	3.7	A	A
4.30-5.30 PM	AADT * 1.072	85	18.23	29.25	18.23	22.73	2000	3.7	A	A
4.30-5.30 PM	AADT * 1.072	85	19.44	31.20	19.44	24.24	2000	3.7	A	A
4.30-5.30 PM	AADT * 1.072	85	20.66	33.15	20.66	25.76	2000	3.7	A	A
4.30-5.30 PM	AADT * 1.072	85	21.87	35.10	21.87	27.27	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	23.09	37.05	23.09	28.79	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	24.30	39.00	24.30	30.30	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	25.52	40.95	25.52	31.82	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	26.73	42.90	26.73	33.33	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	27.95	44.85	27.95	34.85	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	29.16	46.80	29.16	36.36	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	30.38	48.75	30.38	37.88	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	31.59	50.70	31.59	39.39	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	32.81	52.65	32.81	40.91	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	34.02	54.60	34.02	42.42	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	35.24	56.55	35.24	43.94	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	36.45	58.50	36.45	45.45	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.608	85	12.15	19.50	12.15	15.15	3000	11.5	B	B
4.30-5.30 PM	AADT * 1.608	85	13.37	21.45	13.37	16.67	3000	11	B	B
4.30-5.30 PM	AADT * 1.608	85	14.58	23.40	14.58	18.18	3000	10.5	B	B
4.30-5.30 PM	AADT * 1.608	85	15.80	25.35	15.80	19.70	3000	10.2	B	B
4.30-5.30 PM	AADT * 1.608	85	17.01	27.30	17.01	21.21	3000	9.9	A	A
4.30-5.30 PM	AADT * 1.608	85	18.23	29.25	18.23	22.73	3000	9.7	A	A
4.30-5.30 PM	AADT * 1.608	85	19.44	31.20	19.44	24.24	3000	9.5	A	A
4.30-5.30 PM	AADT * 1.608	85	20.66	33.15	20.66	25.76	3000	9.3	A	A
4.30-5.30 PM	AADT * 1.608	85	21.87	35.10	21.87	27.27	3000	9.2	A	A
4.30-5.30 PM	AADT * 1.608	85	23.09	37.05	23.09	28.79	3000	9.1	A	A
4.30-5.30 PM	AADT * 1.608	85	24.30	39.00	24.30	30.30	3000	9	A	A
4.30-5.30 PM	AADT * 1.608	85	25.52	40.95	25.52	31.82	3000	8.9	A	A
4.30-5.30 PM	AADT * 1.608	85	26.73	42.90	26.73	33.33	3000	8.8	A	A

4.30-5.30 PM	AADT * 1.608	85	27.95	44.85	27.95	34.85	3000	8.7	A	A
4.30-5.30 PM	AADT * 1.608	85	29.16	46.80	29.16	36.36	3000	8.7	A	A
4.30-5.30 PM	AADT * 1.608	85	30.38	48.75	30.38	37.88	3000	8.6	A	A
4.30-5.30 PM	AADT * 1.608	85	31.59	50.70	31.59	39.39	3000	8.6	A	A
4.30-5.30 PM	AADT * 1.608	85	32.81	52.65	32.81	40.91	3000	8.5	A	A
4.30-5.30 PM	AADT * 1.608	85	34.02	54.60	34.02	42.42	3000	8.5	A	A
4.30-5.30 PM	AADT * 1.608	85	35.24	56.55	35.24	43.94	3000	8.4	A	A
4.30-5.30 PM	AADT * 1.608	85	36.45	58.50	36.45	45.45	3000	8.4	A	A
4.30-5.30 PM	AADT * 2.144	85	12.15	19.50	12.15	15.15	4000	141	F	F
4.30-5.30 PM	AADT * 2.144	85	13.37	21.45	13.37	16.67	4000	137.4	F	F
4.30-5.30 PM	AADT * 2.144	85	14.58	23.40	14.58	18.18	4000	134.4	F	F
4.30-5.30 PM	AADT * 2.144	85	15.80	25.35	15.80	19.70	4000	131.8	F	F
4.30-5.30 PM	AADT * 2.144	85	17.01	27.30	17.01	21.21	4000	129.7	F	F
4.30-5.30 PM	AADT * 2.144	85	18.23	29.25	18.23	22.73	4000	127.9	F	F
4.30-5.30 PM	AADT * 2.144	85	19.44	31.20	19.44	24.24	4000	126.3	F	F
4.30-5.30 PM	AADT * 2.144	85	20.66	33.15	20.66	25.76	4000	124.9	F	F
4.30-5.30 PM	AADT * 2.144	85	21.87	35.10	21.87	27.27	4000	123.7	F	F
4.30-5.30 PM	AADT * 2.144	85	23.09	37.05	23.09	28.79	4000	122.7	F	F
4.30-5.30 PM	AADT * 2.144	85	24.30	39.00	24.30	30.30	4000	121.7	F	F
4.30-5.30 PM	AADT * 2.144	85	25.52	40.95	25.52	31.82	4000	120.8	F	F
4.30-5.30 PM	AADT * 2.144	85	26.73	42.90	26.73	33.33	4000	120	F	F
4.30-5.30 PM	AADT * 2.144	85	27.95	44.85	27.95	34.85	4000	119.3	F	F
4.30-5.30 PM	AADT * 2.144	85	29.16	46.80	29.16	36.36	4000	118.7	F	F
4.30-5.30 PM	AADT * 2.144	85	30.38	48.75	30.38	37.88	4000	118.1	F	F
4.30-5.30 PM	AADT * 2.144	85	31.59	50.70	31.59	39.39	4000	117.5	F	F
4.30-5.30 PM	AADT * 2.144	85	32.81	52.65	32.81	40.91	4000	117	F	F
4.30-5.30 PM	AADT * 2.144	85	34.02	54.60	34.02	42.42	4000	116.6	F	F
4.30-5.30 PM	AADT * 2.144	85	35.24	56.55	35.24	43.94	4000	116.1	F	F
4.30-5.30 PM	AADT * 2.144	85	36.45	58.50	36.45	45.45	4000	115.7	F	F

Entry Angle (PHI) for Erb/Erbsville/Ira-Needle Roundabout

Timeframe	AADT Assumptions	CL	PHI ANGLE- ERBSVILLE	PHI ANGLE -ERB ST. EAST	PHI ANGLE - IRA NEEDLE	PHI ANGLE- ERB ST. WEST	AADT	AVERAGE DELAY	LOS SIG	LOS UNSIG
8.30-9.30 AM	AADT * 1	50	19.60	10.40	20.40	11.20	1688	2.6	A	A
8.30-9.30 AM	AADT * 1	50	20.83	11.05	21.68	11.90	1688	2.6	A	A
8.30-9.30 AM	AADT * 1	50	22.05	11.70	22.95	12.60	1688	2.6	A	A
8.30-9.30 AM	AADT * 1	50	23.28	12.35	24.23	13.30	1688	2.6	A	A
8.30-9.30 AM	AADT * 1	50	24.50	13.00	25.50	14.00	1688	2.6	A	A
8.30-9.30 AM	AADT * 1	50	25.73	13.65	26.78	14.70	1688	2.6	A	A
8.30-9.30 AM	AADT * 1	50	26.95	14.30	28.05	15.40	1688	2.6	A	A
8.30-9.30 AM	AADT * 1	50	28.18	14.95	29.33	16.10	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	29.40	15.60	30.60	16.80	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	30.63	16.25	31.88	17.50	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	31.85	16.90	33.15	18.20	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	33.08	17.55	34.43	18.90	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	34.30	18.20	35.70	19.60	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	35.53	18.85	36.98	20.30	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	36.75	19.50	38.25	21.00	1688	2.7	A	A
8.30-9.30 AM	AADT * 1.185	50	19.60	10.40	20.40	11.20	2000	2.9	A	A
8.30-9.30 AM	AADT * 1.185	50	20.83	11.05	21.68	11.90	2000	2.9	A	A
8.30-9.30 AM	AADT * 1.185	50	22.05	11.70	22.95	12.60	2000	2.9	A	A
8.30-9.30 AM	AADT * 1.185	50	23.28	12.35	24.23	13.30	2000	3	A	A
8.30-9.30 AM	AADT * 1.185	50	24.50	13.00	25.50	14.00	2000	3	A	A
8.30-9.30 AM	AADT * 1.185	50	25.73	13.65	26.78	14.70	2000	3	A	A
8.30-9.30 AM	AADT * 1.185	50	26.95	14.30	28.05	15.40	2000	3	A	A
8.30-9.30 AM	AADT * 1.185	50	28.18	14.95	29.33	16.10	2000	3	A	A
8.30-9.30 AM	AADT * 1.185	50	29.40	15.60	30.60	16.80	2000	3	A	A
8.30-9.30 AM	AADT * 1.185	50	30.63	16.25	31.88	17.50	2000	3	A	A
8.30-9.30 AM	AADT * 1.185	50	31.85	16.90	33.15	18.20	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	33.08	17.55	34.43	18.90	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	34.30	18.20	35.70	19.60	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	35.53	18.85	36.98	20.30	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	36.75	19.50	38.25	21.00	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.777	50	19.60	10.40	20.40	11.20	3000	5	A	A
8.30-9.30 AM	AADT * 1.777	50	20.83	11.05	21.68	11.90	3000	5.1	A	A
8.30-9.30 AM	AADT * 1.777	50	22.05	11.70	22.95	12.60	3000	5.1	A	A
8.30-9.30 AM	AADT * 1.777	50	23.28	12.35	24.23	13.30	3000	5.2	A	A
8.30-9.30 AM	AADT * 1.777	50	24.50	13.00	25.50	14.00	3000	5.2	A	A
8.30-9.30 AM	AADT * 1.777	50	25.73	13.65	26.78	14.70	3000	5.2	A	A
8.30-9.30 AM	AADT * 1.777	50	26.95	14.30	28.05	15.40	3000	5.3	A	A
8.30-9.30 AM	AADT * 1.777	50	28.18	14.95	29.33	16.10	3000	5.3	A	A
8.30-9.30 AM	AADT * 1.777	50	29.40	15.60	30.60	16.80	3000	5.4	A	A
8.30-9.30 AM	AADT * 1.777	50	30.63	16.25	31.88	17.50	3000	5.4	A	A
8.30-9.30 AM	AADT * 1.777	50	31.85	16.90	33.15	18.20	3000	5.5	A	A
8.30-9.30 AM	AADT * 1.777	50	33.08	17.55	34.43	18.90	3000	5.5	A	A
8.30-9.30 AM	AADT * 1.777	50	34.30	18.20	35.70	19.60	3000	5.6	A	A
8.30-9.30 AM	AADT * 1.777	50	35.53	18.85	36.98	20.30	3000	5.6	A	A

8.30-9.30 AM	AADT * 1.777	50	36.75	19.50	38.25	21.00	3000	5.7	A	A
8.30-9.30 AM	AADT * 2.37	50	19.60	10.40	20.40	11.20	4000	39.8	D	E
8.30-9.30 AM	AADT * 2.37	50	20.83	11.05	21.68	11.90	4000	40.6	D	E
8.30-9.30 AM	AADT * 2.37	50	22.05	11.70	22.95	12.60	4000	41.5	D	E
8.30-9.30 AM	AADT * 2.37	50	23.28	12.35	24.23	13.30	4000	42.4	D	E
8.30-9.30 AM	AADT * 2.37	50	24.50	13.00	25.50	14.00	4000	43.2	D	E
8.30-9.30 AM	AADT * 2.37	50	25.73	13.65	26.78	14.70	4000	44.1	D	E
8.30-9.30 AM	AADT * 2.37	50	26.95	14.30	28.05	15.40	4000	45.1	D	E
8.30-9.30 AM	AADT * 2.37	50	28.18	14.95	29.33	16.10	4000	46	D	E
8.30-9.30 AM	AADT * 2.37	50	29.40	15.60	30.60	16.80	4000	46.9	D	E
8.30-9.30 AM	AADT * 2.37	50	30.63	16.25	31.88	17.50	4000	47.9	D	E
8.30-9.30 AM	AADT * 2.37	50	31.85	16.90	33.15	18.20	4000	48.8	D	E
8.30-9.30 AM	AADT * 2.37	50	33.08	17.55	34.43	18.90	4000	49.8	D	E
8.30-9.30 AM	AADT * 2.37	50	34.30	18.20	35.70	19.60	4000	50.8	D	F
8.30-9.30 AM	AADT * 2.37	50	35.53	18.85	36.98	20.30	4000	51.8	D	F
8.30-9.30 AM	AADT * 2.37	50	36.75	19.50	38.25	21.00	4000	52.9	D	F
12.30-1.30 PM	AADT * 1	50	19.60	10.40	20.40	11.20	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	20.83	11.05	21.68	11.90	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	22.05	11.70	22.95	12.60	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	23.28	12.35	24.23	13.30	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	24.50	13.00	25.50	14.00	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	25.73	13.65	26.78	14.70	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	26.95	14.30	28.05	15.40	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	28.18	14.95	29.33	16.10	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	29.40	15.60	30.60	16.80	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	30.63	16.25	31.88	17.50	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	31.85	16.90	33.15	18.20	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	33.08	17.55	34.43	18.90	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	34.30	18.20	35.70	19.60	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	35.53	18.85	36.98	20.30	1029	2.2	A	A
12.30-1.30 PM	AADT * 1	50	36.75	19.50	38.25	21.00	1029	2.2	A	A
12.30-1.30 PM	AADT * 1.94	50	19.60	10.40	20.40	11.20	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	20.83	11.05	21.68	11.90	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	22.05	11.70	22.95	12.60	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	23.28	12.35	24.23	13.30	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	24.50	13.00	25.50	14.00	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	25.73	13.65	26.78	14.70	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	26.95	14.30	28.05	15.40	2000	3	A	A
12.30-1.30 PM	AADT * 1.94	50	28.18	14.95	29.33	16.10	2000	3	A	A
12.30-1.30 PM	AADT * 1.94	50	29.40	15.60	30.60	16.80	2000	3	A	A
12.30-1.30 PM	AADT * 1.94	50	30.63	16.25	31.88	17.50	2000	3	A	A
12.30-1.30 PM	AADT * 1.94	50	31.85	16.90	33.15	18.20	2000	3	A	A
12.30-1.30 PM	AADT * 1.94	50	33.08	17.55	34.43	18.90	2000	3	A	A
12.30-1.30 PM	AADT * 1.94	50	34.30	18.20	35.70	19.60	2000	3	A	A
12.30-1.30 PM	AADT * 1.94	50	35.53	18.85	36.98	20.30	2000	3.1	A	A
12.30-1.30 PM	AADT * 1.94	50	36.75	19.50	38.25	21.00	2000	3.1	A	A
12.30-1.30 PM	AADT *2.915	50	19.60	10.40	20.40	11.20	3000	4.8	A	A
12.30-1.30 PM	AADT *2.915	50	20.83	11.05	21.68	11.90	3000	4.8	A	A

12.30-1.30 PM	AADT *2.915	50	22.05	11.70	22.95	12.60	3000	4.8	A	A
12.30-1.30 PM	AADT *2.915	50	23.28	12.35	24.23	13.30	3000	4.9	A	A
12.30-1.30 PM	AADT *2.915	50	24.50	13.00	25.50	14.00	3000	4.9	A	A
12.30-1.30 PM	AADT *2.915	50	25.73	13.65	26.78	14.70	3000	4.9	A	A
12.30-1.30 PM	AADT *2.915	50	26.95	14.30	28.05	15.40	3000	5	A	A
12.30-1.30 PM	AADT *2.915	50	28.18	14.95	29.33	16.10	3000	5	A	A
12.30-1.30 PM	AADT *2.915	50	29.40	15.60	30.60	16.80	3000	5	A	A
12.30-1.30 PM	AADT *2.915	50	30.63	16.25	31.88	17.50	3000	5.1	A	A
12.30-1.30 PM	AADT *2.915	50	31.85	16.90	33.15	18.20	3000	5.1	A	A
12.30-1.30 PM	AADT *2.915	50	33.08	17.55	34.43	18.90	3000	5.1	A	A
12.30-1.30 PM	AADT *2.915	50	34.30	18.20	35.70	19.60	3000	5.2	A	A
12.30-1.30 PM	AADT *2.915	50	35.53	18.85	36.98	20.30	3000	5.2	A	A
12.30-1.30 PM	AADT *2.915	50	36.75	19.50	38.25	21.00	3000	5.2	A	A
12.30-1.30 PM	AADT *3.887	50	19.60	10.40	20.40	11.20	4000	28.7	C	D
12.30-1.30 PM	AADT *3.887	50	20.83	11.05	21.68	11.90	4000	29.2	C	D
12.30-1.30 PM	AADT *3.887	50	22.05	11.70	22.95	12.60	4000	29.7	C	D
12.30-1.30 PM	AADT *3.887	50	23.28	12.35	24.23	13.30	4000	30.2	C	D
12.30-1.30 PM	AADT *3.887	50	24.50	13.00	25.50	14.00	4000	30.7	C	D
12.30-1.30 PM	AADT *3.887	50	25.73	13.65	26.78	14.70	4000	31.3	C	D
12.30-1.30 PM	AADT *3.887	50	26.95	14.30	28.05	15.40	4000	31.8	C	D
12.30-1.30 PM	AADT *3.887	50	28.18	14.95	29.33	16.10	4000	32.5	C	D
12.30-1.30 PM	AADT *3.887	50	29.40	15.60	30.60	16.80	4000	33.2	C	D
12.30-1.30 PM	AADT *3.887	50	30.63	16.25	31.88	17.50	4000	34	C	D
12.30-1.30 PM	AADT *3.887	50	31.85	16.90	33.15	18.20	4000	34.7	C	D
12.30-1.30 PM	AADT *3.887	50	33.08	17.55	34.43	18.90	4000	35.5	D	E
12.30-1.30 PM	AADT *3.887	50	34.30	18.20	35.70	19.60	4000	36.2	D	E
12.30-1.30 PM	AADT *3.887	50	35.53	18.85	36.98	20.30	4000	37	D	E
12.30-1.30 PM	AADT *3.887	50	36.75	19.50	38.25	21.00	4000	37.8	D	E
4.30-5.30 PM	AADT * 1	50	19.60	10.40	20.40	11.20	1865	2.7	A	A
4.30-5.30 PM	AADT * 1	50	20.83	11.05	21.68	11.90	1865	2.7	A	A
4.30-5.30 PM	AADT * 1	50	22.05	11.70	22.95	12.60	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	23.28	12.35	24.23	13.30	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	24.50	13.00	25.50	14.00	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	25.73	13.65	26.78	14.70	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	26.95	14.30	28.05	15.40	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	28.18	14.95	29.33	16.10	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	29.40	15.60	30.60	16.80	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	30.63	16.25	31.88	17.50	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	31.85	16.90	33.15	18.20	1865	2.9	A	A
4.30-5.30 PM	AADT * 1	50	33.08	17.55	34.43	18.90	1865	2.9	A	A
4.30-5.30 PM	AADT * 1	50	34.30	18.20	35.70	19.60	1865	2.9	A	A
4.30-5.30 PM	AADT * 1	50	35.53	18.85	36.98	20.30	1865	2.9	A	A
4.30-5.30 PM	AADT * 1	50	36.75	19.50	38.25	21.00	1865	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	19.60	10.40	20.40	11.20	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	20.83	11.05	21.68	11.90	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	22.05	11.70	22.95	12.60	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	23.28	12.35	24.23	13.30	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	24.50	13.00	25.50	14.00	2000	3	A	A

4.30-5.30 PM	AADT * 1.072	50	25.73	13.65	26.78	14.70	2000	3	A	A
4.30-5.30 PM	AADT * 1.072	50	26.95	14.30	28.05	15.40	2000	3	A	A
4.30-5.30 PM	AADT * 1.072	50	28.18	14.95	29.33	16.10	2000	3	A	A
4.30-5.30 PM	AADT * 1.072	50	29.40	15.60	30.60	16.80	2000	3	A	A
4.30-5.30 PM	AADT * 1.072	50	30.63	16.25	31.88	17.50	2000	3	A	A
4.30-5.30 PM	AADT * 1.072	50	31.85	16.90	33.15	18.20	2000	3.1	A	A
4.30-5.30 PM	AADT * 1.072	50	33.08	17.55	34.43	18.90	2000	3.1	A	A
4.30-5.30 PM	AADT * 1.072	50	34.30	18.20	35.70	19.60	2000	3.1	A	A
4.30-5.30 PM	AADT * 1.072	50	35.53	18.85	36.98	20.30	2000	3.1	A	A
4.30-5.30 PM	AADT * 1.072	50	36.75	19.50	38.25	21.00	2000	3.1	A	A
4.30-5.30 PM	AADT * 1.608	50	19.60	10.40	20.40	11.20	3000	5	A	A
4.30-5.30 PM	AADT * 1.608	50	20.83	11.05	21.68	11.90	3000	5	A	A
4.30-5.30 PM	AADT * 1.608	50	22.05	11.70	22.95	12.60	3000	5.1	A	A
4.30-5.30 PM	AADT * 1.608	50	23.28	12.35	24.23	13.30	3000	5.1	A	A
4.30-5.30 PM	AADT * 1.608	50	24.50	13.00	25.50	14.00	3000	5.2	A	A
4.30-5.30 PM	AADT * 1.608	50	25.73	13.65	26.78	14.70	3000	5.2	A	A
4.30-5.30 PM	AADT * 1.608	50	26.95	14.30	28.05	15.40	3000	5.3	A	A
4.30-5.30 PM	AADT * 1.608	50	28.18	14.95	29.33	16.10	3000	5.3	A	A
4.30-5.30 PM	AADT * 1.608	50	29.40	15.60	30.60	16.80	3000	5.4	A	A
4.30-5.30 PM	AADT * 1.608	50	30.63	16.25	31.88	17.50	3000	5.4	A	A
4.30-5.30 PM	AADT * 1.608	50	31.85	16.90	33.15	18.20	3000	5.5	A	A
4.30-5.30 PM	AADT * 1.608	50	33.08	17.55	34.43	18.90	3000	5.6	A	A
4.30-5.30 PM	AADT * 1.608	50	34.30	18.20	35.70	19.60	3000	5.6	A	A
4.30-5.30 PM	AADT * 1.608	50	35.53	18.85	36.98	20.30	3000	5.7	A	A
4.30-5.30 PM	AADT * 1.608	50	36.75	19.50	38.25	21.00	3000	5.7	A	A
4.30-5.30 PM	AADT * 2.144	50	19.60	10.40	20.40	11.20	4000	51.3	D	F
4.30-5.30 PM	AADT * 2.144	50	20.83	11.05	21.68	11.90	4000	52.5	D	F
4.30-5.30 PM	AADT * 2.144	50	22.05	11.70	22.95	12.60	4000	53.8	D	F
4.30-5.30 PM	AADT * 2.144	50	23.28	12.35	24.23	13.30	4000	55	E	F
4.30-5.30 PM	AADT * 2.144	50	24.50	13.00	25.50	14.00	4000	56.2	E	F
4.30-5.30 PM	AADT * 2.144	50	25.73	13.65	26.78	14.70	4000	57.5	E	F
4.30-5.30 PM	AADT * 2.144	50	26.95	14.30	28.05	15.40	4000	58.8	E	F
4.30-5.30 PM	AADT * 2.144	50	28.18	14.95	29.33	16.10	4000	60.1	E	F
4.30-5.30 PM	AADT * 2.144	50	29.40	15.60	30.60	16.80	4000	61.3	E	F
4.30-5.30 PM	AADT * 2.144	50	30.63	16.25	31.88	17.50	4000	62.6	E	F
4.30-5.30 PM	AADT * 2.144	50	31.85	16.90	33.15	18.20	4000	63.9	E	F
4.30-5.30 PM	AADT * 2.144	50	33.08	17.55	34.43	18.90	4000	65.2	E	F
4.30-5.30 PM	AADT * 2.144	50	34.30	18.20	35.70	19.60	4000	66.5	E	F
4.30-5.30 PM	AADT * 2.144	50	35.53	18.85	36.98	20.30	4000	67.9	E	F
4.30-5.30 PM	AADT * 2.144	50	36.75	19.50	38.25	21.00	4000	69.2	E	F
8.30-9.30 AM	AADT * 1	85	19.60	10.40	20.40	11.20	1688	3.1	A	A
8.30-9.30 AM	AADT * 1	85	20.83	11.05	21.68	11.90	1688	3.1	A	A
8.30-9.30 AM	AADT * 1	85	22.05	11.70	22.95	12.60	1688	3.1	A	A
8.30-9.30 AM	AADT * 1	85	23.28	12.35	24.23	13.30	1688	3.1	A	A
8.30-9.30 AM	AADT * 1	85	24.50	13.00	25.50	14.00	1688	3.2	A	A
8.30-9.30 AM	AADT * 1	85	25.73	13.65	26.78	14.70	1688	3.2	A	A
8.30-9.30 AM	AADT * 1	85	26.95	14.30	28.05	15.40	1688	3.2	A	A
8.30-9.30 AM	AADT * 1	85	28.18	14.95	29.33	16.10	1688	3.2	A	A

8.30-9.30 AM	AADT * 1	85	29.40	15.60	30.60	16.80	1688	3.2	A	A
8.30-9.30 AM	AADT * 1	85	30.63	16.25	31.88	17.50	1688	3.2	A	A
8.30-9.30 AM	AADT * 1	85	31.85	16.90	33.15	18.20	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	33.08	17.55	34.43	18.90	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	34.30	18.20	35.70	19.60	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	35.53	18.85	36.98	20.30	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	36.75	19.50	38.25	21.00	1688	3.3	A	A
8.30-9.30 AM	AADT * 1.185	85	19.60	10.40	20.40	11.20	2000	3.5	A	A
8.30-9.30 AM	AADT * 1.185	85	20.83	11.05	21.68	11.90	2000	3.6	A	A
8.30-9.30 AM	AADT * 1.185	85	22.05	11.70	22.95	12.60	2000	3.6	A	A
8.30-9.30 AM	AADT * 1.185	85	23.28	12.35	24.23	13.30	2000	3.6	A	A
8.30-9.30 AM	AADT * 1.185	85	24.50	13.00	25.50	14.00	2000	3.6	A	A
8.30-9.30 AM	AADT * 1.185	85	25.73	13.65	26.78	14.70	2000	3.6	A	A
8.30-9.30 AM	AADT * 1.185	85	26.95	14.30	28.05	15.40	2000	3.7	A	A
8.30-9.30 AM	AADT * 1.185	85	28.18	14.95	29.33	16.10	2000	3.7	A	A
8.30-9.30 AM	AADT * 1.185	85	29.40	15.60	30.60	16.80	2000	3.7	A	A
8.30-9.30 AM	AADT * 1.185	85	30.63	16.25	31.88	17.50	2000	3.7	A	A
8.30-9.30 AM	AADT * 1.185	85	31.85	16.90	33.15	18.20	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.185	85	33.08	17.55	34.43	18.90	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.185	85	34.30	18.20	35.70	19.60	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.185	85	35.53	18.85	36.98	20.30	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.185	85	36.75	19.50	38.25	21.00	2000	3.9	A	A
8.30-9.30 AM	AADT * 1.777	85	19.60	10.40	20.40	11.20	3000	7.8	A	A
8.30-9.30 AM	AADT * 1.777	85	20.83	11.05	21.68	11.90	3000	7.9	A	A
8.30-9.30 AM	AADT * 1.777	85	22.05	11.70	22.95	12.60	3000	8	A	A
8.30-9.30 AM	AADT * 1.777	85	23.28	12.35	24.23	13.30	3000	8.1	A	A
8.30-9.30 AM	AADT * 1.777	85	24.50	13.00	25.50	14.00	3000	8.2	A	A
8.30-9.30 AM	AADT * 1.777	85	25.73	13.65	26.78	14.70	3000	8.3	A	A
8.30-9.30 AM	AADT * 1.777	85	26.95	14.30	28.05	15.40	3000	8.4	A	A
8.30-9.30 AM	AADT * 1.777	85	28.18	14.95	29.33	16.10	3000	8.5	A	A
8.30-9.30 AM	AADT * 1.777	85	29.40	15.60	30.60	16.80	3000	8.6	A	A
8.30-9.30 AM	AADT * 1.777	85	30.63	16.25	31.88	17.50	3000	8.8	A	A
8.30-9.30 AM	AADT * 1.777	85	31.85	16.90	33.15	18.20	3000	8.9	A	A
8.30-9.30 AM	AADT * 1.777	85	33.08	17.55	34.43	18.90	3000	9	A	A
8.30-9.30 AM	AADT * 1.777	85	34.30	18.20	35.70	19.60	3000	9.2	A	A
8.30-9.30 AM	AADT * 1.777	85	35.53	18.85	36.98	20.30	3000	9.3	A	A
8.30-9.30 AM	AADT * 1.777	85	36.75	19.50	38.25	21.00	3000	9.5	A	A
8.30-9.30 AM	AADT * 2.37	85	19.60	10.40	20.40	11.20	4000	108.6	F	F
8.30-9.30 AM	AADT * 2.37	85	20.83	11.05	21.68	11.90	4000	110	F	F
8.30-9.30 AM	AADT * 2.37	85	22.05	11.70	22.95	12.60	4000	111.4	F	F
8.30-9.30 AM	AADT * 2.37	85	23.28	12.35	24.23	13.30	4000	112.9	F	F
8.30-9.30 AM	AADT * 2.37	85	24.50	13.00	25.50	14.00	4000	114.4	F	F
8.30-9.30 AM	AADT * 2.37	85	25.73	13.65	26.78	14.70	4000	115.9	F	F
8.30-9.30 AM	AADT * 2.37	85	26.95	14.30	28.05	15.40	4000	117.4	F	F
8.30-9.30 AM	AADT * 2.37	85	28.18	14.95	29.33	16.10	4000	119	F	F
8.30-9.30 AM	AADT * 2.37	85	29.40	15.60	30.60	16.80	4000	120.5	F	F
8.30-9.30 AM	AADT * 2.37	85	30.63	16.25	31.88	17.50	4000	122.1	F	F
8.30-9.30 AM	AADT * 2.37	85	31.85	16.90	33.15	18.20	4000	123.7	F	F

8.30-9.30 AM	AADT * 2.37	85	33.08	17.55	34.43	18.90	4000	125.4	F	F
8.30-9.30 AM	AADT * 2.37	85	34.30	18.20	35.70	19.60	4000	127	F	F
8.30-9.30 AM	AADT * 2.37	85	35.53	18.85	36.98	20.30	4000	128.7	F	F
8.30-9.30 AM	AADT * 2.37	85	36.75	19.50	38.25	21.00	4000	130.4	F	F
12.30-1.30 PM	AADT * 1	85	19.60	10.40	20.40	11.20	1029	2.3	A	A
12.30-1.30 PM	AADT * 1	85	20.83	11.05	21.68	11.90	1029	2.3	A	A
12.30-1.30 PM	AADT * 1	85	22.05	11.70	22.95	12.60	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	23.28	12.35	24.23	13.30	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	24.50	13.00	25.50	14.00	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	25.73	13.65	26.78	14.70	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	26.95	14.30	28.05	15.40	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	28.18	14.95	29.33	16.10	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	29.40	15.60	30.60	16.80	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	30.63	16.25	31.88	17.50	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	31.85	16.90	33.15	18.20	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	33.08	17.55	34.43	18.90	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	34.30	18.20	35.70	19.60	1029	2.5	A	A
12.30-1.30 PM	AADT * 1	85	35.53	18.85	36.98	20.30	1029	2.5	A	A
12.30-1.30 PM	AADT * 1	85	36.75	19.50	38.25	21.00	1029	2.5	A	A
12.30-1.30 PM	AADT *1.94	85	19.60	10.40	20.40	11.20	2000	3.5	A	A
12.30-1.30 PM	AADT *1.94	85	20.83	11.05	21.68	11.90	2000	3.5	A	A
12.30-1.30 PM	AADT *1.94	85	22.05	11.70	22.95	12.60	2000	3.5	A	A
12.30-1.30 PM	AADT *1.94	85	23.28	12.35	24.23	13.30	2000	3.5	A	A
12.30-1.30 PM	AADT *1.94	85	24.50	13.00	25.50	14.00	2000	3.6	A	A
12.30-1.30 PM	AADT *1.94	85	25.73	13.65	26.78	14.70	2000	3.6	A	A
12.30-1.30 PM	AADT *1.94	85	26.95	14.30	28.05	15.40	2000	3.6	A	A
12.30-1.30 PM	AADT *1.94	85	28.18	14.95	29.33	16.10	2000	3.6	A	A
12.30-1.30 PM	AADT *1.94	85	29.40	15.60	30.60	16.80	2000	3.6	A	A
12.30-1.30 PM	AADT *1.94	85	30.63	16.25	31.88	17.50	2000	3.7	A	A
12.30-1.30 PM	AADT *1.94	85	31.85	16.90	33.15	18.20	2000	3.7	A	A
12.30-1.30 PM	AADT *1.94	85	33.08	17.55	34.43	18.90	2000	3.7	A	A
12.30-1.30 PM	AADT *1.94	85	34.30	18.20	35.70	19.60	2000	3.7	A	A
4.30-5.30 PM	AADT *1.94	85	35.53	18.85	36.98	20.30	2000	3.7	A	A
4.30-5.30 PM	AADT *1.94	85	36.75	19.50	38.25	21.00	2000	3.8	A	A
4.30-5.30 PM	AADT *2.915	85	19.60	10.40	20.40	11.20	3000	7.1	A	A
4.30-5.30 PM	AADT *2.915	85	20.83	11.05	21.68	11.90	3000	7.1	A	A
4.30-5.30 PM	AADT *2.915	85	22.05	11.70	22.95	12.60	3000	7.2	A	A
4.30-5.30 PM	AADT *2.915	85	23.28	12.35	24.23	13.30	3000	7.3	A	A
4.30-5.30 PM	AADT *2.915	85	24.50	13.00	25.50	14.00	3000	7.4	A	A
4.30-5.30 PM	AADT *2.915	85	25.73	13.65	26.78	14.70	3000	7.4	A	A
4.30-5.30 PM	AADT *2.915	85	26.95	14.30	28.05	15.40	3000	7.5	A	A
4.30-5.30 PM	AADT *2.915	85	28.18	14.95	29.33	16.10	3000	7.6	A	A
4.30-5.30 PM	AADT *2.915	85	29.40	15.60	30.60	16.80	3000	7.7	A	A
4.30-5.30 PM	AADT *2.915	85	30.63	16.25	31.88	17.50	3000	7.8	A	A
4.30-5.30 PM	AADT *2.915	85	31.85	16.90	33.15	18.20	3000	7.9	A	A
4.30-5.30 PM	AADT *2.915	85	33.08	17.55	34.43	18.90	3000	8	A	A
4.30-5.30 PM	AADT *2.915	85	34.30	18.20	35.70	19.60	3000	8	A	A
4.30-5.30 PM	AADT *2.915	85	35.53	18.85	36.98	20.30	3000	8.1	A	A

4.30-5.30 PM	AADT *2.915	85	36.75	19.50	38.25	21.00	3000	8.2	A	A
4.30-5.30 PM	AADT * 3.887	85	19.60	10.40	20.40	11.20	4000	86.1	F	F
4.30-5.30 PM	AADT * 3.887	85	20.83	11.05	21.68	11.90	4000	87.2	F	F
4.30-5.30 PM	AADT * 3.887	85	22.05	11.70	22.95	12.60	4000	88.4	F	F
4.30-5.30 PM	AADT * 3.887	85	23.28	12.35	24.23	13.30	4000	89.6	F	F
4.30-5.30 PM	AADT * 3.887	85	24.50	13.00	25.50	14.00	4000	90.7	F	F
4.30-5.30 PM	AADT * 3.887	85	25.73	13.65	26.78	14.70	4000	91.9	F	F
4.30-5.30 PM	AADT * 3.887	85	26.95	14.30	28.05	15.40	4000	93.2	F	F
4.30-5.30 PM	AADT * 3.887	85	28.18	14.95	29.33	16.10	4000	94.6	F	F
4.30-5.30 PM	AADT * 3.887	85	29.40	15.60	30.60	16.80	4000	95.9	F	F
4.30-5.30 PM	AADT * 3.887	85	30.63	16.25	31.88	17.50	4000	97.3	F	F
4.30-5.30 PM	AADT * 3.887	85	31.85	16.90	33.15	18.20	4000	98.7	F	F
4.30-5.30 PM	AADT * 3.887	85	33.08	17.55	34.43	18.90	4000	100.1	F	F
4.30-5.30 PM	AADT * 3.887	85	34.30	18.20	35.70	19.60	4000	101.5	F	F
4.30-5.30 PM	AADT * 3.887	85	35.53	18.85	36.98	20.30	4000	102.9	F	F
12.30-1.30 PM	AADT * 3.887	85	36.75	19.50	38.25	21.00	4000	104.4	F	F
4.30-5.30 PM	AADT * 1	85	19.60	10.40	20.40	11.20	1865	3.3	A	A
4.30-5.30 PM	AADT * 1	85	20.83	11.05	21.68	11.90	1865	3.3	A	A
4.30-5.30 PM	AADT * 1	85	22.05	11.70	22.95	12.60	1865	3.4	A	A
4.30-5.30 PM	AADT * 1	85	23.28	12.35	24.23	13.30	1865	3.4	A	A
4.30-5.30 PM	AADT * 1	85	24.50	13.00	25.50	14.00	1865	3.4	A	A
4.30-5.30 PM	AADT * 1	85	25.73	13.65	26.78	14.70	1865	3.4	A	A
4.30-5.30 PM	AADT * 1	85	26.95	14.30	28.05	15.40	1865	3.4	A	A
4.30-5.30 PM	AADT * 1	85	28.18	14.95	29.33	16.10	1865	3.5	A	A
4.30-5.30 PM	AADT * 1	85	29.40	15.60	30.60	16.80	1865	3.5	A	A
4.30-5.30 PM	AADT * 1	85	30.63	16.25	31.88	17.50	1865	3.5	A	A
4.30-5.30 PM	AADT * 1	85	31.85	16.90	33.15	18.20	1865	3.5	A	A
4.30-5.30 PM	AADT * 1	85	33.08	17.55	34.43	18.90	1865	3.5	A	A
4.30-5.30 PM	AADT * 1	85	34.30	18.20	35.70	19.60	1865	3.6	A	A
4.30-5.30 PM	AADT * 1	85	35.53	18.85	36.98	20.30	1865	3.6	A	A
4.30-5.30 PM	AADT * 1	85	36.75	19.50	38.25	21.00	1865	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	19.60	10.40	20.40	11.20	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.072	85	20.83	11.05	21.68	11.90	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	22.05	11.70	22.95	12.60	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	23.28	12.35	24.23	13.30	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	24.50	13.00	25.50	14.00	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	25.73	13.65	26.78	14.70	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	26.95	14.30	28.05	15.40	2000	3.7	A	A
4.30-5.30 PM	AADT * 1.072	85	28.18	14.95	29.33	16.10	2000	3.7	A	A
4.30-5.30 PM	AADT * 1.072	85	29.40	15.60	30.60	16.80	2000	3.7	A	A
4.30-5.30 PM	AADT * 1.072	85	30.63	16.25	31.88	17.50	2000	3.7	A	A
4.30-5.30 PM	AADT * 1.072	85	31.85	16.90	33.15	18.20	2000	3.8	A	A
4.30-5.30 PM	AADT * 1.072	85	33.08	17.55	34.43	18.90	2000	3.8	A	A
4.30-5.30 PM	AADT * 1.072	85	34.30	18.20	35.70	19.60	2000	3.8	A	A
4.30-5.30 PM	AADT * 1.072	85	35.53	18.85	36.98	20.30	2000	3.8	A	A
4.30-5.30 PM	AADT * 1.072	85	36.75	19.50	38.25	21.00	2000	3.9	A	A
4.30-5.30 PM	AADT * 1.608	85	19.60	10.40	20.40	11.20	3000	8.3	A	A
4.30-5.30 PM	AADT * 1.608	85	20.83	11.05	21.68	11.90	3000	8.4	A	A

4.30-5.30 PM	AADT * 1.608	85	22.05	11.70	22.95	12.60	3000	8.6	A	A
4.30-5.30 PM	AADT * 1.608	85	23.28	12.35	24.23	13.30	3000	8.8	A	A
4.30-5.30 PM	AADT * 1.608	85	24.50	13.00	25.50	14.00	3000	9	A	A
4.30-5.30 PM	AADT * 1.608	85	25.73	13.65	26.78	14.70	3000	9.2	A	A
4.30-5.30 PM	AADT * 1.608	85	26.95	14.30	28.05	15.40	3000	9.4	A	A
4.30-5.30 PM	AADT * 1.608	85	28.18	14.95	29.33	16.10	3000	9.6	A	A
4.30-5.30 PM	AADT * 1.608	85	29.40	15.60	30.60	16.80	3000	9.9	A	A
4.30-5.30 PM	AADT * 1.608	85	30.63	16.25	31.88	17.50	3000	10.1	B	B
4.30-5.30 PM	AADT * 1.608	85	31.85	16.90	33.15	18.20	3000	10.4	B	B
4.30-5.30 PM	AADT * 1.608	85	33.08	17.55	34.43	18.90	3000	10.7	B	B
4.30-5.30 PM	AADT * 1.608	85	34.30	18.20	35.70	19.60	3000	11	B	B
4.30-5.30 PM	AADT * 1.608	85	35.53	18.85	36.98	20.30	3000	11.3	B	B
4.30-5.30 PM	AADT * 1.608	85	36.75	19.50	38.25	21.00	3000	11.7	B	B
4.30-5.30 PM	AADT * 2.144	85	19.60	10.40	20.40	11.20	4000	114.2	F	F
4.30-5.30 PM	AADT * 2.144	85	20.83	11.05	21.68	11.90	4000	116	F	F
4.30-5.30 PM	AADT * 2.144	85	22.05	11.70	22.95	12.60	4000	117.9	F	F
4.30-5.30 PM	AADT * 2.144	85	23.28	12.35	24.23	13.30	4000	119.8	F	F
4.30-5.30 PM	AADT * 2.144	85	24.50	13.00	25.50	14.00	4000	121.7	F	F
4.30-5.30 PM	AADT * 2.144	85	25.73	13.65	26.78	14.70	4000	123.6	F	F
4.30-5.30 PM	AADT * 2.144	85	26.95	14.30	28.05	15.40	4000	125.6	F	F
4.30-5.30 PM	AADT * 2.144	85	28.18	14.95	29.33	16.10	4000	127.6	F	F
4.30-5.30 PM	AADT * 2.144	85	29.40	15.60	30.60	16.80	4000	129.6	F	F
4.30-5.30 PM	AADT * 2.144	85	30.63	16.25	31.88	17.50	4000	131.6	F	F
4.30-5.30 PM	AADT * 2.144	85	31.85	16.90	33.15	18.20	4000	133.6	F	F
4.30-5.30 PM	AADT * 2.144	85	33.08	17.55	34.43	18.90	4000	135.7	F	F
4.30-5.30 PM	AADT * 2.144	85	34.30	18.20	35.70	19.60	4000	137.8	F	F
4.30-5.30 PM	AADT * 2.144	85	35.53	18.85	36.98	20.30	4000	139.9	F	F
4.30-5.30 PM	AADT * 2.144	85	36.75	19.50	38.25	21.00	4000	142.1	F	F

Inscribed Circle Diameter for Erb/Erbsville/Ira-Needle Roundabout

Timeframe	AADT Assumptions	CL	DIAMETER-ERBSVILLE	DIAMETER-ERB ST. EAST	DIAMETER-IRA NEEDLE	DIAMETER-ERB ST. WEST	AADT	AVERAGE DELAY	LOS SIG	LOS UNSIG
8.30-9.30 AM	AADT * 1	50	28.00	28.00	28.00	28.00	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	30.80	30.80	30.80	30.80	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	33.60	33.60	33.60	33.60	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	36.40	36.40	36.40	36.40	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	39.20	39.20	39.20	39.20	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	42.00	42.00	42.00	42.00	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	44.80	44.80	44.80	44.80	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	47.60	47.60	47.60	47.60	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	50.40	50.40	50.40	50.40	1688	2.7	A	A
8.30-9.30 AM	AADT * 1	50	53.20	53.20	53.20	53.20	1688	2.6	A	A
8.30-9.30 AM	AADT * 1	50	56.00	56.00	56.00	56.00	1688	2.6	A	A
8.30-9.30 AM	AADT * 1	50	58.80	58.80	58.80	58.80	1688	2.6	A	A
8.30-9.30 AM	AADT * 1	50	61.60	61.60	61.60	61.60	1688	2.6	A	A
8.30-9.30 AM	AADT * 1	50	64.40	64.40	64.40	64.40	1688	2.6	A	A
8.30-9.30 AM	AADT * 1	50	67.20	67.20	67.20	67.20	1688	2.6	A	A
8.30-9.30 AM	AADT * 1	50	70.00	70.00	70.00	70.00	1688	2.6	A	A
8.30-9.30 AM	AADT * 1	50	72.80	72.80	72.80	72.80	1688	2.5	A	A
8.30-9.30 AM	AADT * 1	50	75.60	75.60	75.60	75.60	1688	2.5	A	A
8.30-9.30 AM	AADT * 1	50	78.40	78.40	78.40	78.40	1688	2.5	A	A
8.30-9.30 AM	AADT * 1	50	81.20	81.20	81.20	81.20	1688	2.5	A	A
8.30-9.30 AM	AADT * 1	50	84.00	84.00	84.00	84.00	1688	2.5	A	A
8.30-9.30 AM	AADT * 1.185	50	28.00	28.00	28.00	28.00	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	30.80	30.80	30.80	30.80	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	33.60	33.60	33.60	33.60	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	36.40	36.40	36.40	36.40	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	39.20	39.20	39.20	39.20	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	42.00	42.00	42.00	42.00	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.185	50	44.80	44.80	44.80	44.80	2000	3	A	A
8.30-9.30 AM	AADT * 1.185	50	47.60	47.60	47.60	47.60	2000	3	A	A
8.30-9.30 AM	AADT * 1.185	50	50.40	50.40	50.40	50.40	2000	3	A	A
8.30-9.30 AM	AADT * 1.185	50	53.20	53.20	53.20	53.20	2000	3	A	A
8.30-9.30 AM	AADT * 1.185	50	56.00	56.00	56.00	56.00	2000	3	A	A
8.30-9.30 AM	AADT * 1.185	50	58.80	58.80	58.80	58.80	2000	2.9	A	A
8.30-9.30 AM	AADT * 1.185	50	61.60	61.60	61.60	61.60	2000	2.9	A	A
8.30-9.30 AM	AADT * 1.185	50	64.40	64.40	64.40	64.40	2000	2.9	A	A
8.30-9.30 AM	AADT * 1.185	50	67.20	67.20	67.20	67.20	2000	2.9	A	A
8.30-9.30 AM	AADT * 1.185	50	70.00	70.00	70.00	70.00	2000	2.9	A	A
8.30-9.30 AM	AADT * 1.185	50	72.80	72.80	72.80	72.80	2000	2.8	A	A
8.30-9.30 AM	AADT * 1.185	50	75.60	75.60	75.60	75.60	2000	2.8	A	A
8.30-9.30 AM	AADT * 1.185	50	78.40	78.40	78.40	78.40	2000	2.8	A	A
8.30-9.30 AM	AADT * 1.185	50	81.20	81.20	81.20	81.20	2000	2.8	A	A
8.30-9.30 AM	AADT * 1.185	50	84.00	84.00	84.00	84.00	2000	2.8	A	A

8.30-9.30 AM	AADT * 1.777	50	28.00	28.00	28.00	28.00	3000	6	A	A
8.30-9.30 AM	AADT * 1.777	50	30.80	30.80	30.80	30.80	3000	6	A	A
8.30-9.30 AM	AADT * 1.777	50	33.60	33.60	33.60	33.60	3000	6	A	A
8.30-9.30 AM	AADT * 1.777	50	36.40	36.40	36.40	36.40	3000	5.9	A	A
8.30-9.30 AM	AADT * 1.777	50	39.20	39.20	39.20	39.20	3000	5.8	A	A
8.30-9.30 AM	AADT * 1.777	50	42.00	42.00	42.00	42.00	3000	5.8	A	A
8.30-9.30 AM	AADT * 1.777	50	44.80	44.80	44.80	44.80	3000	5.7	A	A
8.30-9.30 AM	AADT * 1.777	50	47.60	47.60	47.60	47.60	3000	5.6	A	A
8.30-9.30 AM	AADT * 1.777	50	50.40	50.40	50.40	50.40	3000	5.5	A	A
8.30-9.30 AM	AADT * 1.777	50	53.20	53.20	53.20	53.20	3000	5.3	A	A
8.30-9.30 AM	AADT * 1.777	50	56.00	56.00	56.00	56.00	3000	5.2	A	A
8.30-9.30 AM	AADT * 1.777	50	58.80	58.80	58.80	58.80	3000	5.1	A	A
8.30-9.30 AM	AADT * 1.777	50	61.60	61.60	61.60	61.60	3000	5	A	A
8.30-9.30 AM	AADT * 1.777	50	64.40	64.40	64.40	64.40	3000	4.9	A	A
8.30-9.30 AM	AADT * 1.777	50	67.20	67.20	67.20	67.20	3000	4.8	A	A
8.30-9.30 AM	AADT * 1.777	50	70.00	70.00	70.00	70.00	3000	4.7	A	A
8.30-9.30 AM	AADT * 1.777	50	72.80	72.80	72.80	72.80	3000	4.6	A	A
8.30-9.30 AM	AADT * 1.777	50	75.60	75.60	75.60	75.60	3000	4.5	A	A
8.30-9.30 AM	AADT * 1.777	50	78.40	78.40	78.40	78.40	3000	4.5	A	A
8.30-9.30 AM	AADT * 1.777	50	81.20	81.20	81.20	81.20	3000	4.5	A	A
8.30-9.30 AM	AADT * 1.777	50	84.00	84.00	84.00	84.00	3000	4.4	A	A
8.30-9.30 AM	AADT * 2.37	50	28.00	28.00	28.00	28.00	4000	78.7	E	F
8.30-9.30 AM	AADT * 2.37	50	30.80	30.80	30.80	30.80	4000	77.5	E	F
8.30-9.30 AM	AADT * 2.37	50	33.60	33.60	33.60	33.60	4000	75.9	E	F
8.30-9.30 AM	AADT * 2.37	50	36.40	36.40	36.40	36.40	4000	73.9	E	F
8.30-9.30 AM	AADT * 2.37	50	39.20	39.20	39.20	39.20	4000	71.5	E	F
8.30-9.30 AM	AADT * 2.37	50	42.00	42.00	42.00	42.00	4000	68.5	E	F
8.30-9.30 AM	AADT * 2.37	50	44.80	44.80	44.80	44.80	4000	64.7	E	F
8.30-9.30 AM	AADT * 2.37	50	47.60	47.60	47.60	47.60	4000	60.3	E	F
8.30-9.30 AM	AADT * 2.37	50	50.40	50.40	50.40	50.40	4000	55.1	E	F
8.30-9.30 AM	AADT * 2.37	50	53.20	53.20	53.20	53.20	4000	49.4	D	E
8.30-9.30 AM	AADT * 2.37	50	56.00	56.00	56.00	56.00	4000	43.2	D	E
8.30-9.30 AM	AADT * 2.37	50	58.80	58.80	58.80	58.80	4000	37	D	E
8.30-9.30 AM	AADT * 2.37	50	61.60	61.60	61.60	61.60	4000	32.1	C	D
8.30-9.30 AM	AADT * 2.37	50	64.40	64.40	64.40	64.40	4000	28.1	C	D
8.30-9.30 AM	AADT * 2.37	50	67.20	67.20	67.20	67.20	4000	24.7	C	C
8.30-9.30 AM	AADT * 2.37	50	70.00	70.00	70.00	70.00	4000	22	C	C
8.30-9.30 AM	AADT * 2.37	50	72.80	72.80	72.80	72.80	4000	19.8	B	C
8.30-9.30 AM	AADT * 2.37	50	75.60	75.60	75.60	75.60	4000	18.2	B	C
8.30-9.30 AM	AADT * 2.37	50	78.40	78.40	78.40	78.40	4000	17	B	C
8.30-9.30 AM	AADT * 2.37	50	81.20	81.20	81.20	81.20	4000	16.2	B	C
8.30-9.30 AM	AADT * 2.37	50	84.00	84.00	84.00	84.00	4000	15.5	B	C
12.30-1.30 PM	AADT * 1	50	28.00	28.00	28.00	28.00	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	30.80	30.80	30.80	30.80	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	33.60	33.60	33.60	33.60	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	36.40	36.40	36.40	36.40	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	39.20	39.20	39.20	39.20	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	42.00	42.00	42.00	42.00	1029	2.1	A	A

12.30-1.30 PM	AADT * 1	50	44.80	44.80	44.80	44.80	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	47.60	47.60	47.60	47.60	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	50.40	50.40	50.40	50.40	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	53.20	53.20	53.20	53.20	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	56.00	56.00	56.00	56.00	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	58.80	58.80	58.80	58.80	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	61.60	61.60	61.60	61.60	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	64.40	64.40	64.40	64.40	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	67.20	67.20	67.20	67.20	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	70.00	70.00	70.00	70.00	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	72.80	72.80	72.80	72.80	1029	2.1	A	A
12.30-1.30 PM	AADT * 1	50	75.60	75.60	75.60	75.60	1029	2	A	A
12.30-1.30 PM	AADT * 1	50	78.40	78.40	78.40	78.40	1029	2	A	A
12.30-1.30 PM	AADT * 1	50	81.20	81.20	81.20	81.20	1029	2	A	A
12.30-1.30 PM	AADT * 1	50	84.00	84.00	84.00	84.00	1029	2	A	A
12.30-1.30 PM	AADT * 1.94	50	28.00	28.00	28.00	28.00	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	30.80	30.80	30.80	30.80	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	33.60	33.60	33.60	33.60	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	36.40	36.40	36.40	36.40	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	39.20	39.20	39.20	39.20	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	42.00	42.00	42.00	42.00	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	44.80	44.80	44.80	44.80	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	47.60	47.60	47.60	47.60	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	50.40	50.40	50.40	50.40	2000	2.9	A	A
12.30-1.30 PM	AADT * 1.94	50	53.20	53.20	53.20	53.20	2000	2.8	A	A
12.30-1.30 PM	AADT * 1.94	50	56.00	56.00	56.00	56.00	2000	2.8	A	A
12.30-1.30 PM	AADT * 1.94	50	58.80	58.80	58.80	58.80	2000	2.8	A	A
12.30-1.30 PM	AADT * 1.94	50	61.60	61.60	61.60	61.60	2000	2.8	A	A
12.30-1.30 PM	AADT * 1.94	50	64.40	64.40	64.40	64.40	2000	2.8	A	A
12.30-1.30 PM	AADT * 1.94	50	67.20	67.20	67.20	67.20	2000	2.7	A	A
12.30-1.30 PM	AADT * 1.94	50	70.00	70.00	70.00	70.00	2000	2.7	A	A
12.30-1.30 PM	AADT * 1.94	50	72.80	72.80	72.80	72.80	2000	2.7	A	A
12.30-1.30 PM	AADT * 1.94	50	75.60	75.60	75.60	75.60	2000	2.7	A	A
12.30-1.30 PM	AADT * 1.94	50	78.40	78.40	78.40	78.40	2000	2.7	A	A
12.30-1.30 PM	AADT * 1.94	50	81.20	81.20	81.20	81.20	2000	2.7	A	A
12.30-1.30 PM	AADT * 1.94	50	84.00	84.00	84.00	84.00	2000	2.7	A	A
12.30-1.30 PM	AADT * 2.915	50	28.00	28.00	28.00	28.00	3000	5.1	A	A
12.30-1.30 PM	AADT * 2.915	50	30.80	30.80	30.80	30.80	3000	5.1	A	A
12.30-1.30 PM	AADT * 2.915	50	33.60	33.60	33.60	33.60	3000	5.1	A	A
12.30-1.30 PM	AADT * 2.915	50	36.40	36.40	36.40	36.40	3000	5	A	A
12.30-1.30 PM	AADT * 2.915	50	39.20	39.20	39.20	39.20	3000	5	A	A
12.30-1.30 PM	AADT * 2.915	50	42.00	42.00	42.00	42.00	3000	4.9	A	A
12.30-1.30 PM	AADT * 2.915	50	44.80	44.80	44.80	44.80	3000	4.9	A	A
12.30-1.30 PM	AADT * 2.915	50	47.60	47.60	47.60	47.60	3000	4.8	A	A
12.30-1.30 PM	AADT * 2.915	50	50.40	50.40	50.40	50.40	3000	4.7	A	A
12.30-1.30 PM	AADT * 2.915	50	53.20	53.20	53.20	53.20	3000	4.7	A	A
12.30-1.30 PM	AADT * 2.915	50	56.00	56.00	56.00	56.00	3000	4.6	A	A
12.30-1.30 PM	AADT * 2.915	50	58.80	58.80	58.80	58.80	3000	4.5	A	A

12.30-1.30 PM	AADT * 2.915	50	61.60	61.60	61.60	61.60	3000	4.4	A	A
12.30-1.30 PM	AADT * 2.915	50	64.40	64.40	64.40	64.40	3000	4.3	A	A
12.30-1.30 PM	AADT * 2.915	50	67.20	67.20	67.20	67.20	3000	4.2	A	A
12.30-1.30 PM	AADT * 2.915	50	70.00	70.00	70.00	70.00	3000	4.2	A	A
12.30-1.30 PM	AADT * 2.915	50	72.80	72.80	72.80	72.80	3000	4.1	A	A
12.30-1.30 PM	AADT * 2.915	50	75.60	75.60	75.60	75.60	3000	4.1	A	A
12.30-1.30 PM	AADT * 2.915	50	78.40	78.40	78.40	78.40	3000	4	A	A
12.30-1.30 PM	AADT * 2.915	50	81.20	81.20	81.20	81.20	3000	4	A	A
12.30-1.30 PM	AADT * 2.915	50	84.00	84.00	84.00	84.00	3000	4	A	A
12.30-1.30 PM	AADT *3.887	50	28.00	28.00	28.00	28.00	4000	46.1	D	E
12.30-1.30 PM	AADT *3.887	50	30.80	30.80	30.80	30.80	4000	45.3	D	E
12.30-1.30 PM	AADT *3.887	50	33.60	33.60	33.60	33.60	4000	44.2	D	E
12.30-1.30 PM	AADT *3.887	50	36.40	36.40	36.40	36.40	4000	42.9	D	E
12.30-1.30 PM	AADT *3.887	50	39.20	39.20	39.20	39.20	4000	41.1	D	E
12.30-1.30 PM	AADT *3.887	50	42.00	42.00	42.00	42.00	4000	39	D	E
12.30-1.30 PM	AADT *3.887	50	44.80	44.80	44.80	44.80	4000	36.5	D	E
12.30-1.30 PM	AADT *3.887	50	47.60	47.60	47.60	47.60	4000	33.6	C	D
12.30-1.30 PM	AADT *3.887	50	50.40	50.40	50.40	50.40	4000	30.6	C	D
12.30-1.30 PM	AADT *3.887	50	53.20	53.20	53.20	53.20	4000	28	C	D
12.30-1.30 PM	AADT *3.887	50	56.00	56.00	56.00	56.00	4000	25.2	C	D
12.30-1.30 PM	AADT *3.887	50	58.80	58.80	58.80	58.80	4000	22.5	C	C
12.30-1.30 PM	AADT *3.887	50	61.60	61.60	61.60	61.60	4000	20	C	C
12.30-1.30 PM	AADT *3.887	50	64.40	64.40	64.40	64.40	4000	17.8	B	C
12.30-1.30 PM	AADT *3.887	50	67.20	67.20	67.20	67.20	4000	16	B	C
12.30-1.30 PM	AADT *3.887	50	70.00	70.00	70.00	70.00	4000	14.5	B	B
12.30-1.30 PM	AADT *3.887	50	72.80	72.80	72.80	72.80	4000	13.4	B	B
12.30-1.30 PM	AADT *3.887	50	75.60	75.60	75.60	75.60	4000	12.5	B	B
12.30-1.30 PM	AADT *3.887	50	78.40	78.40	78.40	78.40	4000	11.9	B	B
12.30-1.30 PM	AADT *3.887	50	81.20	81.20	81.20	81.20	4000	11.4	B	B
12.30-1.30 PM	AADT *3.887	50	84.00	84.00	84.00	84.00	4000	11	B	B
4.30-5.30 PM	AADT * 1	50	28.00	28.00	28.00	28.00	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	30.80	30.80	30.80	30.80	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	33.60	33.60	33.60	33.60	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	36.40	36.40	36.40	36.40	1865	2.8	A	A
4.30-5.30 PM	AADT * 1	50	39.20	39.20	39.20	39.20	1865	2.7	A	A
4.30-5.30 PM	AADT * 1	50	42.00	42.00	42.00	42.00	1865	2.7	A	A
4.30-5.30 PM	AADT * 1	50	44.80	44.80	44.80	44.80	1865	2.7	A	A
4.30-5.30 PM	AADT * 1	50	47.60	47.60	47.60	47.60	1865	2.7	A	A
4.30-5.30 PM	AADT * 1	50	50.40	50.40	50.40	50.40	1865	2.7	A	A
4.30-5.30 PM	AADT * 1	50	53.20	53.20	53.20	53.20	1865	2.7	A	A
4.30-5.30 PM	AADT * 1	50	56.00	56.00	56.00	56.00	1865	2.7	A	A
4.30-5.30 PM	AADT * 1	50	58.80	58.80	58.80	58.80	1865	2.7	A	A
4.30-5.30 PM	AADT * 1	50	61.60	61.60	61.60	61.60	1865	2.6	A	A
4.30-5.30 PM	AADT * 1	50	64.40	64.40	64.40	64.40	1865	2.6	A	A
4.30-5.30 PM	AADT * 1	50	67.20	67.20	67.20	67.20	1865	2.6	A	A
4.30-5.30 PM	AADT * 1	50	70.00	70.00	70.00	70.00	1865	2.6	A	A
4.30-5.30 PM	AADT * 1	50	72.80	72.80	72.80	72.80	1865	2.6	A	A
4.30-5.30 PM	AADT * 1	50	75.60	75.60	75.60	75.60	1865	2.6	A	A

4.30-5.30 PM	AADT * 1	50	78.40	78.40	78.40	78.40	1865	2.6	A	A
4.30-5.30 PM	AADT * 1	50	81.20	81.20	81.20	81.20	1865	2.5	A	A
4.30-5.30 PM	AADT * 1	50	84.00	84.00	84.00	84.00	1865	2.5	A	A
4.30-5.30 PM	AADT * 1.072	50	28.00	28.00	28.00	28.00	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	30.80	30.80	30.80	30.80	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	33.60	33.60	33.60	33.60	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	36.40	36.40	36.40	36.40	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	39.20	39.20	39.20	39.20	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	42.00	42.00	42.00	42.00	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	44.80	44.80	44.80	44.80	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	47.60	47.60	47.60	47.60	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.072	50	50.40	50.40	50.40	50.40	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.072	50	53.20	53.20	53.20	53.20	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.072	50	56.00	56.00	56.00	56.00	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.072	50	58.80	58.80	58.80	58.80	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.072	50	61.60	61.60	61.60	61.60	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.072	50	64.40	64.40	64.40	64.40	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.072	50	67.20	67.20	67.20	67.20	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.072	50	70.00	70.00	70.00	70.00	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.072	50	72.80	72.80	72.80	72.80	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.072	50	75.60	75.60	75.60	75.60	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.072	50	78.40	78.40	78.40	78.40	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.072	50	81.20	81.20	81.20	81.20	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.072	50	84.00	84.00	84.00	84.00	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.608	50	28.00	28.00	28.00	28.00	3000	5.5	A	A
4.30-5.30 PM	AADT * 1.608	50	30.80	30.80	30.80	30.80	3000	5.5	A	A
4.30-5.30 PM	AADT * 1.608	50	33.60	33.60	33.60	33.60	3000	5.4	A	A
4.30-5.30 PM	AADT * 1.608	50	36.40	36.40	36.40	36.40	3000	5.4	A	A
4.30-5.30 PM	AADT * 1.608	50	39.20	39.20	39.20	39.20	3000	5.3	A	A
4.30-5.30 PM	AADT * 1.608	50	42.00	42.00	42.00	42.00	3000	5.3	A	A
4.30-5.30 PM	AADT * 1.608	50	44.80	44.80	44.80	44.80	3000	5.2	A	A
4.30-5.30 PM	AADT * 1.608	50	47.60	47.60	47.60	47.60	3000	5.1	A	A
4.30-5.30 PM	AADT * 1.608	50	50.40	50.40	50.40	50.40	3000	5	A	A
4.30-5.30 PM	AADT * 1.608	50	53.20	53.20	53.20	53.20	3000	4.9	A	A
4.30-5.30 PM	AADT * 1.608	50	56.00	56.00	56.00	56.00	3000	4.8	A	A
4.30-5.30 PM	AADT * 1.608	50	58.80	58.80	58.80	58.80	3000	4.7	A	A
4.30-5.30 PM	AADT * 1.608	50	61.60	61.60	61.60	61.60	3000	4.5	A	A
4.30-5.30 PM	AADT * 1.608	50	64.40	64.40	64.40	64.40	3000	4.4	A	A
4.30-5.30 PM	AADT * 1.608	50	67.20	67.20	67.20	67.20	3000	4.4	A	A
4.30-5.30 PM	AADT * 1.608	50	70.00	70.00	70.00	70.00	3000	4.3	A	A
4.30-5.30 PM	AADT * 1.608	50	72.80	72.80	72.80	72.80	3000	4.2	A	A
4.30-5.30 PM	AADT * 1.608	50	75.60	75.60	75.60	75.60	3000	4.2	A	A
4.30-5.30 PM	AADT * 1.608	50	78.40	78.40	78.40	78.40	3000	4.1	A	A
4.30-5.30 PM	AADT * 1.608	50	81.20	81.20	81.20	81.20	3000	4.1	A	A
4.30-5.30 PM	AADT * 1.608	50	84.00	84.00	84.00	84.00	3000	4.1	A	A
4.30-5.30 PM	AADT * 2.144	50	28.00	28.00	28.00	28.00	4000	74.8	E	F
4.30-5.30 PM	AADT * 2.144	50	30.80	30.80	30.80	30.80	4000	73.8	E	F
4.30-5.30 PM	AADT * 2.144	50	33.60	33.60	33.60	33.60	4000	72.4	E	F

4.30-5.30 PM	AADT * 2.144	50	36.40	36.40	36.40	36.40	4000	70.8	E	F
4.30-5.30 PM	AADT * 2.144	50	39.20	39.20	39.20	39.20	4000	68.7	E	F
4.30-5.30 PM	AADT * 2.144	50	42.00	42.00	42.00	42.00	4000	66.1	E	F
4.30-5.30 PM	AADT * 2.144	50	44.80	44.80	44.80	44.80	4000	62.9	E	F
4.30-5.30 PM	AADT * 2.144	50	47.60	47.60	47.60	47.60	4000	59.2	E	F
4.30-5.30 PM	AADT * 2.144	50	50.40	50.40	50.40	50.40	4000	54.9	D	F
4.30-5.30 PM	AADT * 2.144	50	53.20	53.20	53.20	53.20	4000	50.1	D	F
4.30-5.30 PM	AADT * 2.144	50	56.00	56.00	56.00	56.00	4000	45	D	E
4.30-5.30 PM	AADT * 2.144	50	58.80	58.80	58.80	58.80	4000	39.7	D	E
4.30-5.30 PM	AADT * 2.144	50	61.60	61.60	61.60	61.60	4000	34.4	C	D
4.30-5.30 PM	AADT * 2.144	50	64.40	64.40	64.40	64.40	4000	29.5	C	D
4.30-5.30 PM	AADT * 2.144	50	67.20	67.20	67.20	67.20	4000	26.2	C	D
4.30-5.30 PM	AADT * 2.144	50	70.00	70.00	70.00	70.00	4000	23.4	C	C
4.30-5.30 PM	AADT * 2.144	50	72.80	72.80	72.80	72.80	4000	21.2	C	C
4.30-5.30 PM	AADT * 2.144	50	75.60	75.60	75.60	75.60	4000	19.3	B	C
4.30-5.30 PM	AADT * 2.144	50	78.40	78.40	78.40	78.40	4000	17.9	B	C
4.30-5.30 PM	AADT * 2.144	50	81.20	81.20	81.20	81.20	4000	16.9	B	C
4.30-5.30 PM	AADT * 2.144	50	84.00	84.00	84.00	84.00	4000	16	B	C
8.30-9.30 AM	AADT * 1	85	28.00	28.00	28.00	28.00	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	30.80	30.80	30.80	30.80	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	33.60	33.60	33.60	33.60	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	36.40	36.40	36.40	36.40	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	39.20	39.20	39.20	39.20	1688	3.3	A	A
8.30-9.30 AM	AADT * 1	85	42.00	42.00	42.00	42.00	1688	3.2	A	A
8.30-9.30 AM	AADT * 1	85	44.80	44.80	44.80	44.80	1688	3.2	A	A
8.30-9.30 AM	AADT * 1	85	47.60	47.60	47.60	47.60	1688	3.2	A	A
8.30-9.30 AM	AADT * 1	85	50.40	50.40	50.40	50.40	1688	3.2	A	A
8.30-9.30 AM	AADT * 1	85	53.20	53.20	53.20	53.20	1688	3.2	A	A
8.30-9.30 AM	AADT * 1	85	56.00	56.00	56.00	56.00	1688	3.2	A	A
8.30-9.30 AM	AADT * 1	85	58.80	58.80	58.80	58.80	1688	3.1	A	A
8.30-9.30 AM	AADT * 1	85	61.60	61.60	61.60	61.60	1688	3.1	A	A
8.30-9.30 AM	AADT * 1	85	64.40	64.40	64.40	64.40	1688	3.1	A	A
8.30-9.30 AM	AADT * 1	85	67.20	67.20	67.20	67.20	1688	3.1	A	A
8.30-9.30 AM	AADT * 1	85	70.00	70.00	70.00	70.00	1688	3.1	A	A
8.30-9.30 AM	AADT * 1	85	72.80	72.80	72.80	72.80	1688	3	A	A
8.30-9.30 AM	AADT * 1	85	75.60	75.60	75.60	75.60	1688	3	A	A
8.30-9.30 AM	AADT * 1	85	78.40	78.40	78.40	78.40	1688	3	A	A
8.30-9.30 AM	AADT * 1	85	81.20	81.20	81.20	81.20	1688	3	A	A
8.30-9.30 AM	AADT * 1	85	84.00	84.00	84.00	84.00	1688	3	A	A
8.30-9.30 AM	AADT * 1.185	85	28.00	28.00	28.00	28.00	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.185	85	30.80	30.80	30.80	30.80	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.185	85	33.60	33.60	33.60	33.60	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.185	85	36.40	36.40	36.40	36.40	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.185	85	39.20	39.20	39.20	39.20	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.185	85	42.00	42.00	42.00	42.00	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.185	85	44.80	44.80	44.80	44.80	2000	3.7	A	A
8.30-9.30 AM	AADT * 1.185	85	47.60	47.60	47.60	47.60	2000	3.7	A	A
8.30-9.30 AM	AADT * 1.185	85	50.40	50.40	50.40	50.40	2000	3.7	A	A

8.30-9.30 AM	AADT * 1.185	85	53.20	53.20	53.20	53.20	2000	3.7	A	A
8.30-9.30 AM	AADT * 1.185	85	56.00	56.00	56.00	56.00	2000	3.6	A	A
8.30-9.30 AM	AADT * 1.185	85	58.80	58.80	58.80	58.80	2000	3.6	A	A
8.30-9.30 AM	AADT * 1.185	85	61.60	61.60	61.60	61.60	2000	3.6	A	A
8.30-9.30 AM	AADT * 1.185	85	64.40	64.40	64.40	64.40	2000	3.5	A	A
8.30-9.30 AM	AADT * 1.185	85	67.20	67.20	67.20	67.20	2000	3.5	A	A
8.30-9.30 AM	AADT * 1.185	85	70.00	70.00	70.00	70.00	2000	3.5	A	A
8.30-9.30 AM	AADT * 1.185	85	72.80	72.80	72.80	72.80	2000	3.4	A	A
8.30-9.30 AM	AADT * 1.185	85	75.60	75.60	75.60	75.60	2000	3.4	A	A
8.30-9.30 AM	AADT * 1.185	85	78.40	78.40	78.40	78.40	2000	3.4	A	A
8.30-9.30 AM	AADT * 1.185	85	81.20	81.20	81.20	81.20	2000	3.4	A	A
8.30-9.30 AM	AADT * 1.185	85	84.00	84.00	84.00	84.00	2000	3.4	A	A
8.30-9.30 AM	AADT * 1.777	85	28.00	28.00	28.00	28.00	3000	11.1	A	A
8.30-9.30 AM	AADT * 1.777	85	30.80	30.80	30.80	30.80	3000	10.9	A	A
8.30-9.30 AM	AADT * 1.777	85	33.60	33.60	33.60	33.60	3000	10.7	A	A
8.30-9.30 AM	AADT * 1.777	85	36.40	36.40	36.40	36.40	3000	10.5	A	A
8.30-9.30 AM	AADT * 1.777	85	39.20	39.20	39.20	39.20	3000	10.3	A	A
8.30-9.30 AM	AADT * 1.777	85	42.00	42.00	42.00	42.00	3000	10	A	A
8.30-9.30 AM	AADT * 1.777	85	44.80	44.80	44.80	44.80	3000	9.7	A	A
8.30-9.30 AM	AADT * 1.777	85	47.60	47.60	47.60	47.60	3000	9.3	A	A
8.30-9.30 AM	AADT * 1.777	85	50.40	50.40	50.40	50.40	3000	9	A	A
8.30-9.30 AM	AADT * 1.777	85	53.20	53.20	53.20	53.20	3000	8.6	A	A
8.30-9.30 AM	AADT * 1.777	85	56.00	56.00	56.00	56.00	3000	8.2	A	A
8.30-9.30 AM	AADT * 1.777	85	58.80	58.80	58.80	58.80	3000	7.9	A	A
8.30-9.30 AM	AADT * 1.777	85	61.60	61.60	61.60	61.60	3000	7.5	A	A
8.30-9.30 AM	AADT * 1.777	85	64.40	64.40	64.40	64.40	3000	7.3	A	A
8.30-9.30 AM	AADT * 1.777	85	67.20	67.20	67.20	67.20	3000	7	A	A
8.30-9.30 AM	AADT * 1.777	85	70.00	70.00	70.00	70.00	3000	6.8	A	A
8.30-9.30 AM	AADT * 1.777	85	72.80	72.80	72.80	72.80	3000	6.7	A	A
8.30-9.30 AM	AADT * 1.777	85	75.60	75.60	75.60	75.60	3000	6.5	A	A
8.30-9.30 AM	AADT * 1.777	85	78.40	78.40	78.40	78.40	3000	6.4	A	A
8.30-9.30 AM	AADT * 1.777	85	81.20	81.20	81.20	81.20	3000	6.4	A	A
8.30-9.30 AM	AADT * 1.777	85	84.00	84.00	84.00	84.00	3000	6.3	A	A
8.30-9.30 AM	AADT * 2.37	85	28.00	28.00	28.00	28.00	4000	159.9	F	F
8.30-9.30 AM	AADT * 2.37	85	30.80	30.80	30.80	30.80	4000	158.3	F	F
8.30-9.30 AM	AADT * 2.37	85	33.60	33.60	33.60	33.60	4000	156.2	F	F
8.30-9.30 AM	AADT * 2.37	85	36.40	36.40	36.40	36.40	4000	153.6	F	F
8.30-9.30 AM	AADT * 2.37	85	39.20	39.20	39.20	39.20	4000	150.3	F	F
8.30-9.30 AM	AADT * 2.37	85	42.00	42.00	42.00	42.00	4000	146.3	F	F
8.30-9.30 AM	AADT * 2.37	85	44.80	44.80	44.80	44.80	4000	141.5	F	F
8.30-9.30 AM	AADT * 2.37	85	47.60	47.60	47.60	47.60	4000	135.8	F	F
8.30-9.30 AM	AADT * 2.37	85	50.40	50.40	50.40	50.40	4000	129.3	F	F
8.30-9.30 AM	AADT * 2.37	85	53.20	53.20	53.20	53.20	4000	122.1	F	F
8.30-9.30 AM	AADT * 2.37	85	56.00	56.00	56.00	56.00	4000	114.4	F	F
8.30-9.30 AM	AADT * 2.37	85	58.80	58.80	58.80	58.80	4000	106.5	F	F
8.30-9.30 AM	AADT * 2.37	85	61.60	61.60	61.60	61.60	4000	98.7	F	F
8.30-9.30 AM	AADT * 2.37	85	64.40	64.40	64.40	64.40	4000	90.6	F	F
8.30-9.30 AM	AADT * 2.37	85	67.20	67.20	67.20	67.20	4000	84	F	F

8.30-9.30 AM	AADT * 2.37	85	70.00	70.00	70.00	70.00	4000	77.7	F	F
8.30-9.30 AM	AADT * 2.37	85	72.80	72.80	72.80	72.80	4000	72.1	E	F
8.30-9.30 AM	AADT * 2.37	85	75.60	75.60	75.60	75.60	4000	67.4	E	F
8.30-9.30 AM	AADT * 2.37	85	78.40	78.40	78.40	78.40	4000	63.6	E	F
8.30-9.30 AM	AADT * 2.37	85	81.20	81.20	81.20	81.20	4000	60.5	E	F
8.30-9.30 AM	AADT * 2.37	85	84.00	84.00	84.00	84.00	4000	58	E	F
12.30-1.30 PM	AADT * 1	85	28.00	28.00	28.00	28.00	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	30.80	30.80	30.80	30.80	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	33.60	33.60	33.60	33.60	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	36.40	36.40	36.40	36.40	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	39.20	39.20	39.20	39.20	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	42.00	42.00	42.00	42.00	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	44.80	44.80	44.80	44.80	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	47.60	47.60	47.60	47.60	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	50.40	50.40	50.40	50.40	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	53.20	53.20	53.20	53.20	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	56.00	56.00	56.00	56.00	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	58.80	58.80	58.80	58.80	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	61.60	61.60	61.60	61.60	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	64.40	64.40	64.40	64.40	1029	2.4	A	A
12.30-1.30 PM	AADT * 1	85	67.20	67.20	67.20	67.20	1029	2.3	A	A
12.30-1.30 PM	AADT * 1	85	70.00	70.00	70.00	70.00	1029	2.3	A	A
12.30-1.30 PM	AADT * 1	85	72.80	72.80	72.80	72.80	1029	2.3	A	A
12.30-1.30 PM	AADT * 1	85	75.60	75.60	75.60	75.60	1029	2.3	A	A
12.30-1.30 PM	AADT * 1	85	78.40	78.40	78.40	78.40	1029	2.3	A	A
12.30-1.30 PM	AADT * 1	85	81.20	81.20	81.20	81.20	1029	2.3	A	A
12.30-1.30 PM	AADT * 1	85	84.00	84.00	84.00	84.00	1029	2.3	A	A
12.30-1.30 PM	AADT * 1.94	85	28.00	28.00	28.00	28.00	2000	3.6	A	A
12.30-1.30 PM	AADT * 1.94	85	30.80	30.80	30.80	30.80	2000	3.6	A	A
12.30-1.30 PM	AADT * 1.94	85	33.60	33.60	33.60	33.60	2000	3.6	A	A
12.30-1.30 PM	AADT * 1.94	85	36.40	36.40	36.40	36.40	2000	3.5	A	A
12.30-1.30 PM	AADT * 1.94	85	39.20	39.20	39.20	39.20	2000	3.5	A	A
12.30-1.30 PM	AADT * 1.94	85	42.00	42.00	42.00	42.00	2000	3.5	A	A
12.30-1.30 PM	AADT * 1.94	85	44.80	44.80	44.80	44.80	2000	3.5	A	A
12.30-1.30 PM	AADT * 1.94	85	47.60	47.60	47.60	47.60	2000	3.5	A	A
12.30-1.30 PM	AADT * 1.94	85	50.40	50.40	50.40	50.40	2000	3.5	A	A
12.30-1.30 PM	AADT * 1.94	85	53.20	53.20	53.20	53.20	2000	3.4	A	A
12.30-1.30 PM	AADT * 1.94	85	56.00	56.00	56.00	56.00	2000	3.4	A	A
12.30-1.30 PM	AADT * 1.94	85	58.80	58.80	58.80	58.80	2000	3.4	A	A
12.30-1.30 PM	AADT * 1.94	85	61.60	61.60	61.60	61.60	2000	3.3	A	A
12.30-1.30 PM	AADT * 1.94	85	64.40	64.40	64.40	64.40	2000	3.3	A	A
12.30-1.30 PM	AADT * 1.94	85	67.20	67.20	67.20	67.20	2000	3.3	A	A
12.30-1.30 PM	AADT * 1.94	85	70.00	70.00	70.00	70.00	2000	3.3	A	A
12.30-1.30 PM	AADT * 1.94	85	72.80	72.80	72.80	72.80	2000	3.2	A	A
12.30-1.30 PM	AADT * 1.94	85	75.60	75.60	75.60	75.60	2000	3.2	A	A
12.30-1.30 PM	AADT * 1.94	85	78.40	78.40	78.40	78.40	2000	3.2	A	A
12.30-1.30 PM	AADT * 1.94	85	81.20	81.20	81.20	81.20	2000	3.2	A	A
12.30-1.30 PM	AADT * 1.94	85	84.00	84.00	84.00	84.00	2000	3.2	A	A

12.30-1.30 PM	AADT * 2.915	85	28.00	28.00	28.00	28.00	3000	8	A	A
12.30-1.30 PM	AADT * 2.915	85	30.80	30.80	30.80	30.80	3000	8	A	A
12.30-1.30 PM	AADT * 2.915	85	33.60	33.60	33.60	33.60	3000	7.9	A	A
12.30-1.30 PM	AADT * 2.915	85	36.40	36.40	36.40	36.40	3000	7.8	A	A
12.30-1.30 PM	AADT * 2.915	85	39.20	39.20	39.20	39.20	3000	7.7	A	A
12.30-1.30 PM	AADT * 2.915	85	42.00	42.00	42.00	42.00	3000	7.6	A	A
12.30-1.30 PM	AADT * 2.915	85	44.80	44.80	44.80	44.80	3000	7.4	A	A
12.30-1.30 PM	AADT * 2.915	85	47.60	47.60	47.60	47.60	3000	7.2	A	A
12.30-1.30 PM	AADT * 2.915	85	50.40	50.40	50.40	50.40	3000	7.1	A	A
12.30-1.30 PM	AADT * 2.915	85	53.20	53.20	53.20	53.20	3000	6.8	A	A
12.30-1.30 PM	AADT * 2.915	85	56.00	56.00	56.00	56.00	3000	6.6	A	A
12.30-1.30 PM	AADT * 2.915	85	58.80	58.80	58.80	58.80	3000	6.4	A	A
12.30-1.30 PM	AADT * 2.915	85	61.60	61.60	61.60	61.60	3000	6.2	A	A
12.30-1.30 PM	AADT * 2.915	85	64.40	64.40	64.40	64.40	3000	6.1	A	A
12.30-1.30 PM	AADT * 2.915	85	67.20	67.20	67.20	67.20	3000	5.9	A	A
12.30-1.30 PM	AADT * 2.915	85	70.00	70.00	70.00	70.00	3000	5.8	A	A
12.30-1.30 PM	AADT * 2.915	85	72.80	72.80	72.80	72.80	3000	5.7	A	A
12.30-1.30 PM	AADT * 2.915	85	75.60	75.60	75.60	75.60	3000	5.6	A	A
12.30-1.30 PM	AADT * 2.915	85	78.40	78.40	78.40	78.40	3000	5.5	A	A
12.30-1.30 PM	AADT * 2.915	85	81.20	81.20	81.20	81.20	3000	5.4	A	A
12.30-1.30 PM	AADT * 2.915	85	84.00	84.00	84.00	84.00	3000	5.4	A	A
12.30-1.30 PM	AADT *3.887	85	28.00	28.00	28.00	28.00	4000	111.7	E	F
12.30-1.30 PM	AADT *3.887	85	30.80	30.80	30.80	30.80	4000	110.5	F	F
12.30-1.30 PM	AADT *3.887	85	33.60	33.60	33.60	33.60	4000	109	F	F
12.30-1.30 PM	AADT *3.887	85	36.40	36.40	36.40	36.40	4000	107.1	F	F
12.30-1.30 PM	AADT *3.887	85	39.20	39.20	39.20	39.20	4000	104.7	F	F
12.30-1.30 PM	AADT *3.887	85	42.00	42.00	42.00	42.00	4000	101.8	F	F
12.30-1.30 PM	AADT *3.887	85	44.80	44.80	44.80	44.80	4000	98.2	F	F
12.30-1.30 PM	AADT *3.887	85	47.60	47.60	47.60	47.60	4000	94	F	F
12.30-1.30 PM	AADT *3.887	85	50.40	50.40	50.40	50.40	4000	89.3	F	F
12.30-1.30 PM	AADT *3.887	85	53.20	53.20	53.20	53.20	4000	84.1	F	F
12.30-1.30 PM	AADT *3.887	85	56.00	56.00	56.00	56.00	4000	78.6	E	F
12.30-1.30 PM	AADT *3.887	85	58.80	58.80	58.80	58.80	4000	72.8	E	F
12.30-1.30 PM	AADT *3.887	85	61.60	61.60	61.60	61.60	4000	66.9	E	F
12.30-1.30 PM	AADT *3.887	85	64.40	64.40	64.40	64.40	4000	61.4	E	F
12.30-1.30 PM	AADT *3.887	85	67.20	67.20	67.20	67.20	4000	56.4	E	F
12.30-1.30 PM	AADT *3.887	85	70.00	70.00	70.00	70.00	4000	51.9	D	F
12.30-1.30 PM	AADT *3.887	85	72.80	72.80	72.80	72.80	4000	48.1	D	E
12.30-1.30 PM	AADT *3.887	85	75.60	75.60	75.60	75.60	4000	44.9	D	E
12.30-1.30 PM	AADT *3.887	85	78.40	78.40	78.40	78.40	4000	42.3	D	E
12.30-1.30 PM	AADT *3.887	85	81.20	81.20	81.20	81.20	4000	40.2	D	E
12.30-1.30 PM	AADT *3.887	85	84.00	84.00	84.00	84.00	4000	38.5	D	E
4.30-5.30 PM	AADT * 1	85	28.00	28.00	28.00	28.00	1865	3.4	A	A
4.30-5.30 PM	AADT * 1	85	30.80	30.80	30.80	30.80	1865	3.4	A	A
4.30-5.30 PM	AADT * 1	85	33.60	33.60	33.60	33.60	1865	3.4	A	A
4.30-5.30 PM	AADT * 1	85	36.40	36.40	36.40	36.40	1865	3.4	A	A
4.30-5.30 PM	AADT * 1	85	39.20	39.20	39.20	39.20	1865	3.3	A	A
4.30-5.30 PM	AADT * 1	85	42.00	42.00	42.00	42.00	1865	3.3	A	A

4.30-5.30 PM	AADT * 1	85	44.80	44.80	44.80	44.80	1865	3.3	A	A
4.30-5.30 PM	AADT * 1	85	47.60	47.60	47.60	47.60	1865	3.3	A	A
4.30-5.30 PM	AADT * 1	85	50.40	50.40	50.40	50.40	1865	3.3	A	A
4.30-5.30 PM	AADT * 1	85	53.20	53.20	53.20	53.20	1865	3.3	A	A
4.30-5.30 PM	AADT * 1	85	56.00	56.00	56.00	56.00	1865	3.2	A	A
4.30-5.30 PM	AADT * 1	85	58.80	58.80	58.80	58.80	1865	3.2	A	A
4.30-5.30 PM	AADT * 1	85	61.60	61.60	61.60	61.60	1865	3.2	A	A
4.30-5.30 PM	AADT * 1	85	64.40	64.40	64.40	64.40	1865	3.1	A	A
4.30-5.30 PM	AADT * 1	85	67.20	67.20	67.20	67.20	1865	3.1	A	A
4.30-5.30 PM	AADT * 1	85	70.00	70.00	70.00	70.00	1865	3.1	A	A
4.30-5.30 PM	AADT * 1	85	72.80	72.80	72.80	72.80	1865	3.1	A	A
4.30-5.30 PM	AADT * 1	85	75.60	75.60	75.60	75.60	1865	3.1	A	A
4.30-5.30 PM	AADT * 1	85	78.40	78.40	78.40	78.40	1865	3.1	A	A
4.30-5.30 PM	AADT * 1	85	81.20	81.20	81.20	81.20	1865	3	A	A
4.30-5.30 PM	AADT * 1	85	84.00	84.00	84.00	84.00	1865	3	A	A
4.30-5.30 PM	AADT * 1.072	85	28.00	28.00	28.00	28.00	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	30.80	30.80	30.80	30.80	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	33.60	33.60	33.60	33.60	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	36.40	36.40	36.40	36.40	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	39.20	39.20	39.20	39.20	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	42.00	42.00	42.00	42.00	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.072	85	44.80	44.80	44.80	44.80	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.072	85	47.60	47.60	47.60	47.60	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.072	85	50.40	50.40	50.40	50.40	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.072	85	53.20	53.20	53.20	53.20	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.072	85	56.00	56.00	56.00	56.00	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.072	85	58.80	58.80	58.80	58.80	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.072	85	61.60	61.60	61.60	61.60	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.072	85	64.40	64.40	64.40	64.40	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.072	85	67.20	67.20	67.20	67.20	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.072	85	70.00	70.00	70.00	70.00	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.072	85	72.80	72.80	72.80	72.80	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.072	85	75.60	75.60	75.60	75.60	2000	3.2	A	A
4.30-5.30 PM	AADT * 1.072	85	78.40	78.40	78.40	78.40	2000	3.2	A	A
4.30-5.30 PM	AADT * 1.072	85	81.20	81.20	81.20	81.20	2000	3.2	A	A
4.30-5.30 PM	AADT * 1.072	85	84.00	84.00	84.00	84.00	2000	3.2	A	A
4.30-5.30 PM	AADT * 1.608	85	28.00	28.00	28.00	28.00	3000	10.7	B	B
4.30-5.30 PM	AADT * 1.608	85	30.80	30.80	30.80	30.80	3000	10.6	B	B
4.30-5.30 PM	AADT * 1.608	85	33.60	33.60	33.60	33.60	3000	10.4	B	B
4.30-5.30 PM	AADT * 1.608	85	36.40	36.40	36.40	36.40	3000	10.1	B	B
4.30-5.30 PM	AADT * 1.608	85	39.20	39.20	39.20	39.20	3000	9.8	A	A
4.30-5.30 PM	AADT * 1.608	85	42.00	42.00	42.00	42.00	3000	9.5	A	A
4.30-5.30 PM	AADT * 1.608	85	44.80	44.80	44.80	44.80	3000	9.2	A	A
4.30-5.30 PM	AADT * 1.608	85	47.60	47.60	47.60	47.60	3000	8.8	A	A
4.30-5.30 PM	AADT * 1.608	85	50.40	50.40	50.40	50.40	3000	8.4	A	A
4.30-5.30 PM	AADT * 1.608	85	53.20	53.20	53.20	53.20	3000	8	A	A
4.30-5.30 PM	AADT * 1.608	85	56.00	56.00	56.00	56.00	3000	7.6	A	A
4.30-5.30 PM	AADT * 1.608	85	58.80	58.80	58.80	58.80	3000	7.2	A	A

4.30-5.30 PM	AADT * 1.608	85	61.60	61.60	61.60	61.60	3000	6.9	A	A
4.30-5.30 PM	AADT * 1.608	85	64.40	64.40	64.40	64.40	3000	6.6	A	A
4.30-5.30 PM	AADT * 1.608	85	67.20	67.20	67.20	67.20	3000	6.4	A	A
4.30-5.30 PM	AADT * 1.608	85	70.00	70.00	70.00	70.00	3000	6.2	A	A
4.30-5.30 PM	AADT * 1.608	85	72.80	72.80	72.80	72.80	3000	6	A	A
4.30-5.30 PM	AADT * 1.608	85	75.60	75.60	75.60	75.60	3000	5.9	A	A
4.30-5.30 PM	AADT * 1.608	85	78.40	78.40	78.40	78.40	3000	5.8	A	A
4.30-5.30 PM	AADT * 1.608	85	81.20	81.20	81.20	81.20	3000	5.7	A	A
4.30-5.30 PM	AADT * 1.608	85	84.00	84.00	84.00	84.00	3000	5.7	A	A
4.30-5.30 PM	AADT * 2.144	85	28.00	28.00	28.00	28.00	4000	146.8	F	F
4.30-5.30 PM	AADT * 2.144	85	30.80	30.80	30.80	30.80	4000	145.3	F	F
4.30-5.30 PM	AADT * 2.144	85	33.60	33.60	33.60	33.60	4000	143.4	F	F
4.30-5.30 PM	AADT * 2.144	85	36.40	36.40	36.40	36.40	4000	141	F	F
4.30-5.30 PM	AADT * 2.144	85	39.20	39.20	39.20	39.20	4000	138	F	F
4.30-5.30 PM	AADT * 2.144	85	42.00	42.00	42.00	42.00	4000	134.3	F	F
4.30-5.30 PM	AADT * 2.144	85	44.80	44.80	44.80	44.80	4000	129.9	F	F
4.30-5.30 PM	AADT * 2.144	85	47.60	47.60	47.60	47.60	4000	124.7	F	F
4.30-5.30 PM	AADT * 2.144	85	50.40	50.40	50.40	50.40	4000	118.7	F	F
4.30-5.30 PM	AADT * 2.144	85	53.20	53.20	53.20	53.20	4000	112.2	F	F
4.30-5.30 PM	AADT * 2.144	85	56.00	56.00	56.00	56.00	4000	105.3	F	F
4.30-5.30 PM	AADT * 2.144	85	58.80	58.80	58.80	58.80	4000	98.4	F	F
4.30-5.30 PM	AADT * 2.144	85	61.60	61.60	61.60	61.60	4000	91.5	F	F
4.30-5.30 PM	AADT * 2.144	85	64.40	64.40	64.40	64.40	4000	85	F	F
4.30-5.30 PM	AADT * 2.144	85	67.20	67.20	67.20	67.20	4000	79	E	F
4.30-5.30 PM	AADT * 2.144	85	70.00	70.00	70.00	70.00	4000	73.7	E	F
4.30-5.30 PM	AADT * 2.144	85	72.80	72.80	72.80	72.80	4000	69.2	E	F
4.30-5.30 PM	AADT * 2.144	85	75.60	75.60	75.60	75.60	4000	65.4	E	F
4.30-5.30 PM	AADT * 2.144	85	78.40	78.40	78.40	78.40	4000	62.3	E	F
4.30-5.30 PM	AADT * 2.144	85	81.20	81.20	81.20	81.20	4000	59.7	E	F
4.30-5.30 PM	AADT * 2.144	85	84.00	84.00	84.00	84.00	4000	57.7	E	F

Half Width for Ira-Needle/Trussler/Highview Roundabout

Timeframe	AADT Assumptions	CL	HALF WIDTH-IRA NEEDLE SOUTH	HALF WIDTH - TRUSSLER	HALF WIDTH - IRA NEEDLE NORTH	HALF WIDTH-HIGHVIEW	AADT	AVERAGE DELAY	LOS SIG	LOS UNSIG
8.30-9.30 AM	AADT * 1	50	4.05	2.10	4.05	2.65	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	50	4.39	2.28	4.39	2.87	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	50	4.73	2.45	4.73	3.09	1205	2.7	A	A
8.30-9.30 AM	AADT * 1	50	5.06	2.63	5.06	3.32	1205	2.6	A	A
8.30-9.30 AM	AADT * 1	50	5.40	2.80	5.40	3.54	1205	2.5	A	A
8.30-9.30 AM	AADT * 1	50	5.74	2.98	5.74	3.76	1205	2.5	A	A
8.30-9.30 AM	AADT * 1	50	6.08	3.15	6.08	3.98	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	6.41	3.33	6.41	4.20	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	6.75	3.50	6.75	4.42	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	7.09	3.68	7.09	4.64	1205	2.3	A	A
8.30-9.30 AM	AADT * 1.66	50	4.05	2.10	4.05	2.65	2000	4.1	A	A
8.30-9.30 AM	AADT * 1.66	50	4.39	2.28	4.39	2.87	2000	3.9	A	A
8.30-9.30 AM	AADT * 1.66	50	4.73	2.45	4.73	3.09	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.66	50	5.06	2.63	5.06	3.32	2000	3.6	A	A
8.30-9.30 AM	AADT * 1.66	50	5.40	2.80	5.40	3.54	2000	3.5	A	A
8.30-9.30 AM	AADT * 1.66	50	5.74	2.98	5.74	3.76	2000	3.4	A	A
8.30-9.30 AM	AADT * 1.66	50	6.08	3.15	6.08	3.98	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.66	50	6.41	3.33	6.41	4.20	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.66	50	6.75	3.50	6.75	4.42	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	7.09	3.68	7.09	4.64	2000	3.1	A	A
8.30-9.30 AM	AADT * 2.49	50	4.05	2.10	4.05	2.65	3000	16.2	B	C
8.30-9.30 AM	AADT * 2.49	50	4.39	2.28	4.39	2.87	3000	13.2	B	B
8.30-9.30 AM	AADT * 2.49	50	4.73	2.45	4.73	3.09	3000	11.2	B	B
8.30-9.30 AM	AADT * 2.49	50	5.06	2.63	5.06	3.32	3000	9.7	A	A
8.30-9.30 AM	AADT * 2.49	50	5.40	2.80	5.40	3.54	3000	8.7	A	A
8.30-9.30 AM	AADT * 2.49	50	5.74	2.98	5.74	3.76	3000	8	A	A
8.30-9.30 AM	AADT * 2.49	50	6.08	3.15	6.08	3.98	3000	7.4	A	A
8.30-9.30 AM	AADT * 2.49	50	6.41	3.33	6.41	4.20	3000	7	A	A
8.30-9.30 AM	AADT * 2.49	50	6.75	3.50	6.75	4.42	3000	6.7	A	A
8.30-9.30 AM	AADT * 2.49	50	7.09	3.68	7.09	4.64	3000	6.4	A	A
8.30-9.30 AM	AADT * 3.32	50	4.05	2.10	4.05	2.65	4000	164.9	F	F
8.30-9.30 AM	AADT * 3.32	50	4.39	2.28	4.39	2.87	4000	151	F	F
8.30-9.30 AM	AADT * 3.32	50	4.73	2.45	4.73	3.09	4000	138.6	F	F
8.30-9.30 AM	AADT * 3.32	50	5.06	2.63	5.06	3.32	4000	126.8	F	F
8.30-9.30 AM	AADT * 3.32	50	5.40	2.80	5.40	3.54	4000	116.8	F	F
8.30-9.30 AM	AADT * 3.32	50	5.74	2.98	5.74	3.76	4000	107.8	F	F
8.30-9.30 AM	AADT * 3.32	50	6.08	3.15	6.08	3.98	4000	100.2	F	F
8.30-9.30 AM	AADT * 3.32	50	6.41	3.33	6.41	4.20	4000	94	F	F
8.30-9.30 AM	AADT * 3.32	50	6.75	3.50	6.75	4.42	4000	88.9	F	F
8.30-9.30 AM	AADT * 3.32	50	7.09	3.68	7.09	4.64	4000	84.7	F	F
12.30-1.30 PM	AADT * 1	50	4.05	2.10	4.05	2.65	575	2.3	A	A
12.30-1.30 PM	AADT * 1	50	4.39	2.28	4.39	2.87	575	2.2	A	A
12.30-1.30 PM	AADT * 1	50	4.73	2.45	4.73	3.09	575	2.1	A	A

12.30-1.30 PM	AADT * 1	50	5.06	2.63	5.06	3.32	575	2.1	A	A
12.30-1.30 PM	AADT * 1	50	5.40	2.80	5.40	3.54	575	2	A	A
12.30-1.30 PM	AADT * 1	50	5.74	2.98	5.74	3.76	575	2	A	A
12.30-1.30 PM	AADT * 1	50	6.08	3.15	6.08	3.98	575	2	A	A
12.30-1.30 PM	AADT * 1	50	6.41	3.33	6.41	4.20	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	6.75	3.50	6.75	4.42	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	7.09	3.68	7.09	4.64	575	1.9	A	A
12.30-1.30 PM	AADT * 3.478	50	4.05	2.10	4.05	2.65	2000	3.8	A	A
12.30-1.30 PM	AADT * 3.478	50	4.39	2.28	4.39	2.87	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	50	4.73	2.45	4.73	3.09	2000	3.5	A	A
12.30-1.30 PM	AADT * 3.478	50	5.06	2.63	5.06	3.32	2000	3.4	A	A
12.30-1.30 PM	AADT * 3.478	50	5.40	2.80	5.40	3.54	2000	3.2	A	A
12.30-1.30 PM	AADT * 3.478	50	5.74	2.98	5.74	3.76	2000	3.2	A	A
12.30-1.30 PM	AADT * 3.478	50	6.08	3.15	6.08	3.98	2000	3.1	A	A
12.30-1.30 PM	AADT * 3.478	50	6.41	3.33	6.41	4.20	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	6.75	3.50	6.75	4.42	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	7.09	3.68	7.09	4.64	2000	2.9	A	A
12.30-1.30 PM	AADT * 5.217	50	4.05	2.10	4.05	2.65	3000	8.3	A	A
12.30-1.30 PM	AADT * 5.217	50	4.39	2.28	4.39	2.87	3000	7.5	A	A
12.30-1.30 PM	AADT * 5.217	50	4.73	2.45	4.73	3.09	3000	6.8	A	A
12.30-1.30 PM	AADT * 5.217	50	5.06	2.63	5.06	3.32	3000	6.3	A	A
12.30-1.30 PM	AADT * 5.217	50	5.40	2.80	5.40	3.54	3000	5.9	A	A
12.30-1.30 PM	AADT * 5.217	50	5.74	2.98	5.74	3.76	3000	5.6	A	A
12.30-1.30 PM	AADT * 5.217	50	6.08	3.15	6.08	3.98	3000	5.3	A	A
12.30-1.30 PM	AADT * 5.217	50	6.41	3.33	6.41	4.20	3000	5.1	A	A
12.30-1.30 PM	AADT * 5.217	50	6.75	3.50	6.75	4.42	3000	5	A	A
12.30-1.30 PM	AADT * 5.217	50	7.09	3.68	7.09	4.64	3000	4.8	A	A
12.30-1.30 PM	AADT * 6.956	50	4.05	2.10	4.05	2.65	4000	100.6	F	F
12.30-1.30 PM	AADT * 6.956	50	4.39	2.28	4.39	2.87	4000	82.7	F	F
12.30-1.30 PM	AADT * 6.956	50	4.73	2.45	4.73	3.09	4000	67.3	E	F
12.30-1.30 PM	AADT * 6.956	50	5.06	2.63	5.06	3.32	4000	55.4	E	F
12.30-1.30 PM	AADT * 6.956	50	5.40	2.80	5.40	3.54	4000	46.3	D	E
12.30-1.30 PM	AADT * 6.956	50	5.74	2.98	5.74	3.76	4000	39	D	E
12.30-1.30 PM	AADT * 6.956	50	6.08	3.15	6.08	3.98	4000	33.2	C	D
12.30-1.30 PM	AADT * 6.956	50	6.41	3.33	6.41	4.20	4000	29	C	D
12.30-1.30 PM	AADT * 6.956	50	6.75	3.50	6.75	4.42	4000	26.2	C	D
12.30-1.30 PM	AADT * 6.956	50	7.09	3.68	7.09	4.64	4000	24.3	C	C
4.30-5.30 PM	AADT * 1	50	4.05	2.10	4.05	2.65	1461	2.9	A	A
4.30-5.30 PM	AADT * 1	50	4.39	2.28	4.39	2.87	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	50	4.73	2.45	4.73	3.09	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	50	5.06	2.63	5.06	3.32	1461	2.6	A	A
4.30-5.30 PM	AADT * 1	50	5.40	2.80	5.40	3.54	1461	2.5	A	A
4.30-5.30 PM	AADT * 1	50	5.74	2.98	5.74	3.76	1461	2.5	A	A
4.30-5.30 PM	AADT * 1	50	6.08	3.15	6.08	3.98	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	6.41	3.33	6.41	4.20	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	6.75	3.50	6.75	4.42	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	7.09	3.68	7.09	4.64	1461	2.3	A	A
4.30-5.30 PM	AADT * 1.37	50	4.05	2.10	4.05	2.65	2000	3.8	A	A

4.30-5.30 PM	AADT * 1.37	50	4.39	2.28	4.39	2.87	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.37	50	4.73	2.45	4.73	3.09	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	50	5.06	2.63	5.06	3.32	2000	3.2	A	A
4.30-5.30 PM	AADT * 1.37	50	5.40	2.80	5.40	3.54	2000	3.1	A	A
4.30-5.30 PM	AADT * 1.37	50	5.74	2.98	5.74	3.76	2000	3	A	A
4.30-5.30 PM	AADT * 1.37	50	6.08	3.15	6.08	3.98	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.37	50	6.41	3.33	6.41	4.20	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.37	50	6.75	3.50	6.75	4.42	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	7.09	3.68	7.09	4.64	2000	2.8	A	A
4.30-5.30 PM	AADT * 2.053	50	4.05	2.10	4.05	2.65	3000	10.1	B	B
4.30-5.30 PM	AADT * 2.053	50	4.39	2.28	4.39	2.87	3000	8.4	A	A
4.30-5.30 PM	AADT * 2.053	50	4.73	2.45	4.73	3.09	3000	7.2	A	A
4.30-5.30 PM	AADT * 2.053	50	5.06	2.63	5.06	3.32	3000	6.5	A	A
4.30-5.30 PM	AADT * 2.053	50	5.40	2.80	5.40	3.54	3000	5.9	A	A
4.30-5.30 PM	AADT * 2.053	50	5.74	2.98	5.74	3.76	3000	5.5	A	A
4.30-5.30 PM	AADT * 2.053	50	6.08	3.15	6.08	3.98	3000	5.2	A	A
4.30-5.30 PM	AADT * 2.053	50	6.41	3.33	6.41	4.20	3000	4.9	A	A
4.30-5.30 PM	AADT * 2.053	50	6.75	3.50	6.75	4.42	3000	4.7	A	A
4.30-5.30 PM	AADT * 2.053	50	7.09	3.68	7.09	4.64	3000	4.6	A	A
4.30-5.30 PM	AADT * 2.738	50	4.05	2.10	4.05	2.65	4000	136.2	F	F
4.30-5.30 PM	AADT * 2.738	50	4.39	2.28	4.39	2.87	4000	114.2	F	F
4.30-5.30 PM	AADT * 2.738	50	4.73	2.45	4.73	3.09	4000	95.5	F	F
4.30-5.30 PM	AADT * 2.738	50	5.06	2.63	5.06	3.32	4000	79.8	E	F
4.30-5.30 PM	AADT * 2.738	50	5.40	2.80	5.40	3.54	4000	65.8	E	F
4.30-5.30 PM	AADT * 2.738	50	5.74	2.98	5.74	3.76	4000	53.7	D	F
4.30-5.30 PM	AADT * 2.738	50	6.08	3.15	6.08	3.98	4000	43.5	D	E
4.30-5.30 PM	AADT * 2.738	50	6.41	3.33	6.41	4.20	4000	40.3	D	E
4.30-5.30 PM	AADT * 2.738	50	6.75	3.50	6.75	4.42	4000	30.9	C	D
4.30-5.30 PM	AADT * 2.738	50	7.09	3.68	7.09	4.64	4000	27.8	C	D
8.30-9.30 AM	AADT * 1	85	4.05	2.10	4.05	2.65	1205	3.5	A	A
8.30-9.30 AM	AADT * 1	85	4.39	2.28	4.39	2.87	1205	3.3	A	A
8.30-9.30 AM	AADT * 1	85	4.73	2.45	4.73	3.09	1205	3.2	A	A
8.30-9.30 AM	AADT * 1	85	5.06	2.63	5.06	3.32	1205	3.1	A	A
8.30-9.30 AM	AADT * 1	85	5.40	2.80	5.40	3.54	1205	3	A	A
8.30-9.30 AM	AADT * 1	85	5.74	2.98	5.74	3.76	1205	2.9	A	A
8.30-9.30 AM	AADT * 1	85	6.08	3.15	6.08	3.98	1205	2.9	A	A
8.30-9.30 AM	AADT * 1	85	6.41	3.33	6.41	4.20	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	6.75	3.50	6.75	4.42	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	7.09	3.68	7.09	4.64	1205	2.7	A	A
8.30-9.30 AM	AADT * 1.66	85	4.05	2.10	4.05	2.65	2000	5.9	A	A
8.30-9.30 AM	AADT * 1.66	85	4.39	2.28	4.39	2.87	2000	5.5	A	A
8.30-9.30 AM	AADT * 1.66	85	4.73	2.45	4.73	3.09	2000	5.2	A	A
8.30-9.30 AM	AADT * 1.66	85	5.06	2.63	5.06	3.32	2000	4.9	A	A
8.30-9.30 AM	AADT * 1.66	85	5.40	2.80	5.40	3.54	2000	4.7	A	A
8.30-9.30 AM	AADT * 1.66	85	5.74	2.98	5.74	3.76	2000	4.5	A	A
8.30-9.30 AM	AADT * 1.66	85	6.08	3.15	6.08	3.98	2000	4.3	A	A
8.30-9.30 AM	AADT * 1.66	85	6.41	3.33	6.41	4.20	2000	4.2	A	A
8.30-9.30 AM	AADT * 1.66	85	6.75	3.50	6.75	4.42	2000	4.1	A	A

8.30-9.30 AM	AADT * 1.66	85	7.09	3.68	7.09	4.64	2000	4	A	A
8.30-9.30 AM	AADT * 2.49	85	4.05	2.10	4.05	2.65	3000	80.7	F	F
8.30-9.30 AM	AADT * 2.49	85	4.39	2.28	4.39	2.87	3000	68.9	E	F
8.30-9.30 AM	AADT * 2.49	85	4.73	2.45	4.73	3.09	3000	58.7	E	F
8.30-9.30 AM	AADT * 2.49	85	5.06	2.63	5.06	3.32	3000	49.3	D	E
8.30-9.30 AM	AADT * 2.49	85	5.40	2.80	5.40	3.54	3000	41.6	D	E
8.30-9.30 AM	AADT * 2.49	85	5.74	2.98	5.74	3.76	3000	34.8	C	D
8.30-9.30 AM	AADT * 2.49	85	6.08	3.15	6.08	3.98	3000	29.6	C	D
8.30-9.30 AM	AADT * 2.49	85	6.41	3.33	6.41	4.20	3000	25.6	C	D
8.30-9.30 AM	AADT * 2.49	85	6.75	3.50	6.75	4.42	3000	22.8	C	C
8.30-9.30 AM	AADT * 2.49	85	7.09	3.68	7.09	4.64	3000	20.8	C	C
8.30-9.30 AM	AADT * 3.32	85	4.05	2.10	4.05	2.65	4000	317.3	F	F
8.30-9.30 AM	AADT * 3.32	85	4.39	2.28	4.39	2.87	4000	295.3	F	F
8.30-9.30 AM	AADT * 3.32	85	4.73	2.45	4.73	3.09	4000	276.1	F	F
8.30-9.30 AM	AADT * 3.32	85	5.06	2.63	5.06	3.32	4000	258.1	F	F
8.30-9.30 AM	AADT * 3.32	85	5.40	2.80	5.40	3.54	4000	242.8	F	F
8.30-9.30 AM	AADT * 3.32	85	5.74	2.98	5.74	3.76	4000	228.9	F	F
8.30-9.30 AM	AADT * 3.32	85	6.08	3.15	6.08	3.98	4000	217	F	F
8.30-9.30 AM	AADT * 3.32	85	6.41	3.33	6.41	4.20	4000	206.3	F	F
8.30-9.30 AM	AADT * 3.32	85	6.75	3.50	6.75	4.42	4000	197.2	F	F
8.30-9.30 AM	AADT * 3.32	85	7.09	3.68	7.09	4.64	4000	189.3	F	F
12.30-1.30 PM	AADT * 1	85	4.05	2.10	4.05	2.65	575	2.6	A	A
12.30-1.30 PM	AADT * 1	85	4.39	2.28	4.39	2.87	575	2.5	A	A
12.30-1.30 PM	AADT * 1	85	4.73	2.45	4.73	3.09	575	2.4	A	A
12.30-1.30 PM	AADT * 1	85	5.06	2.63	5.06	3.32	575	2.4	A	A
12.30-1.30 PM	AADT * 1	85	5.40	2.80	5.40	3.54	575	2.3	A	A
12.30-1.30 PM	AADT * 1	85	5.74	2.98	5.74	3.76	575	2.3	A	A
12.30-1.30 PM	AADT * 1	85	6.08	3.15	6.08	3.98	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	6.41	3.33	6.41	4.20	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	6.75	3.50	6.75	4.42	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	7.09	3.68	7.09	4.64	575	2.1	A	A
12.30-1.30 PM	AADT * 3.478	85	4.05	2.10	4.05	2.65	2000	5.1	A	A
12.30-1.30 PM	AADT * 3.478	85	4.39	2.28	4.39	2.87	2000	4.7	A	A
12.30-1.30 PM	AADT * 3.478	85	4.73	2.45	4.73	3.09	2000	4.5	A	A
12.30-1.30 PM	AADT * 3.478	85	5.06	2.63	5.06	3.32	2000	4.3	A	A
12.30-1.30 PM	AADT * 3.478	85	5.40	2.80	5.40	3.54	2000	4.1	A	A
12.30-1.30 PM	AADT * 3.478	85	5.74	2.98	5.74	3.76	2000	3.9	A	A
12.30-1.30 PM	AADT * 3.478	85	6.08	3.15	6.08	3.98	2000	3.8	A	A
12.30-1.30 PM	AADT * 3.478	85	6.41	3.33	6.41	4.20	2000	3.7	A	A
12.30-1.30 PM	AADT * 3.478	85	6.75	3.50	6.75	4.42	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	7.09	3.68	7.09	4.64	2000	3.6	A	A
12.30-1.30 PM	AADT * 5.217	85	4.05	2.10	4.05	2.65	3000	24.1	C	C
12.30-1.30 PM	AADT * 5.217	85	4.39	2.28	4.39	2.87	3000	18.7	B	C
12.30-1.30 PM	AADT * 5.217	85	4.73	2.45	4.73	3.09	3000	15	B	C
12.30-1.30 PM	AADT * 5.217	85	5.06	2.63	5.06	3.32	3000	12.6	B	B
12.30-1.30 PM	AADT * 5.217	85	5.40	2.80	5.40	3.54	3000	10.9	B	B
12.30-1.30 PM	AADT * 5.217	85	5.74	2.98	5.74	3.76	3000	9.7	A	A
12.30-1.30 PM	AADT * 5.217	85	6.08	3.15	6.08	3.98	3000	8.9	A	A

12.30-1.30 PM	AADT * 5.217	85	6.41	3.33	6.41	4.20	3000	8.3	A	A
12.30-1.30 PM	AADT * 5.217	85	6.75	3.50	6.75	4.42	3000	7.8	A	A
12.30-1.30 PM	AADT * 5.217	85	7.09	3.68	7.09	4.64	3000	7.5	A	A
12.30-1.30 PM	AADT * 6.956	85	4.05	2.10	4.05	2.65	4000	243.9	F	F
12.30-1.30 PM	AADT * 6.956	85	4.39	2.28	4.39	2.87	4000	213.3	F	F
12.30-1.30 PM	AADT * 6.956	85	4.73	2.45	4.73	3.09	4000	187	F	F
12.30-1.30 PM	AADT * 6.956	85	5.06	2.63	5.06	3.32	4000	163.5	F	F
12.30-1.30 PM	AADT * 6.956	85	5.40	2.80	5.40	3.54	4000	143.1	F	F
12.30-1.30 PM	AADT * 6.956	85	5.74	2.98	5.74	3.76	4000	125.7	F	F
12.30-1.30 PM	AADT * 6.956	85	6.08	3.15	6.08	3.98	4000	111.8	F	F
12.30-1.30 PM	AADT * 6.956	85	6.41	3.33	6.41	4.20	4000	100.5	F	F
12.30-1.30 PM	AADT * 6.956	85	6.75	3.50	6.75	4.42	4000	92.6	F	F
12.30-1.30 PM	AADT * 6.956	85	7.09	3.68	7.09	4.64	4000	86.8	F	F
4.30-5.30 PM	AADT * 1	85	4.05	2.10	4.05	2.65	1461	3.6	A	A
4.30-5.30 PM	AADT * 1	85	4.39	2.28	4.39	2.87	1461	3.4	A	A
4.30-5.30 PM	AADT * 1	85	4.73	2.45	4.73	3.09	1461	3.3	A	A
4.30-5.30 PM	AADT * 1	85	5.06	2.63	5.06	3.32	1461	3.1	A	A
4.30-5.30 PM	AADT * 1	85	5.40	2.80	5.40	3.54	1461	3	A	A
4.30-5.30 PM	AADT * 1	85	5.74	2.98	5.74	3.76	1461	2.9	A	A
4.30-5.30 PM	AADT * 1	85	6.08	3.15	6.08	3.98	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	6.41	3.33	6.41	4.20	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	6.75	3.50	6.75	4.42	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	7.09	3.68	7.09	4.64	1461	2.7	A	A
4.30-5.30 PM	AADT * 1.37	85	4.05	2.10	4.05	2.65	2000	4.9	A	A
4.30-5.30 PM	AADT * 1.37	85	4.39	2.28	4.39	2.87	2000	4.6	A	A
4.30-5.30 PM	AADT * 1.37	85	4.73	2.45	4.73	3.09	2000	4.3	A	A
4.30-5.30 PM	AADT * 1.37	85	5.06	2.63	5.06	3.32	2000	4.1	A	A
4.30-5.30 PM	AADT * 1.37	85	5.40	2.80	5.40	3.54	2000	3.9	A	A
4.30-5.30 PM	AADT * 1.37	85	5.74	2.98	5.74	3.76	2000	3.7	A	A
4.30-5.30 PM	AADT * 1.37	85	6.08	3.15	6.08	3.98	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.37	85	6.41	3.33	6.41	4.20	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.37	85	6.75	3.50	6.75	4.42	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	7.09	3.68	7.09	4.64	2000	3.3	A	A
4.30-5.30 PM	AADT * 2.053	85	4.05	2.10	4.05	2.65	3000	31.1	C	D
4.30-5.30 PM	AADT * 2.053	85	4.39	2.28	4.39	2.87	3000	21.3	C	C
4.30-5.30 PM	AADT * 2.053	85	4.73	2.45	4.73	3.09	3000	15.4	B	C
4.30-5.30 PM	AADT * 2.053	85	5.06	2.63	5.06	3.32	3000	12.1	B	B
4.30-5.30 PM	AADT * 2.053	85	5.40	2.80	5.40	3.54	3000	10.1	B	B
4.30-5.30 PM	AADT * 2.053	85	5.74	2.98	5.74	3.76	3000	8.8	A	A
4.30-5.30 PM	AADT * 2.053	85	6.08	3.15	6.08	3.98	3000	8	A	A
4.30-5.30 PM	AADT * 2.053	85	6.41	3.33	6.41	4.20	3000	7.4	A	A
4.30-5.30 PM	AADT * 2.053	85	6.75	3.50	6.75	4.42	3000	7	A	A
4.30-5.30 PM	AADT * 2.053	85	7.09	3.68	7.09	4.64	3000	6.7	A	A
4.30-5.30 PM	AADT * 2.738	85	4.05	2.10	4.05	2.65	4000	249.3	F	F
4.30-5.30 PM	AADT * 2.738	85	4.39	2.28	4.39	2.87	4000	214.6	F	F
4.30-5.30 PM	AADT * 2.738	85	4.73	2.45	4.73	3.09	4000	183.9	F	F
4.30-5.30 PM	AADT * 2.738	85	5.06	2.63	5.06	3.32	4000	158.5	F	F
4.30-5.30 PM	AADT * 2.738	85	5.40	2.80	5.40	3.54	4000	136.8	F	F

4.30-5.30 PM	AADT * 2.738	85	5.74	2.98	5.74	3.76	4000	119	F	F
4.30-5.30 PM	AADT * 2.738	85	6.08	3.15	6.08	3.98	4000	104.5	F	F
4.30-5.30 PM	AADT * 2.738	85	6.41	3.33	6.41	4.20	4000	93.1	F	F
4.30-5.30 PM	AADT * 2.738	85	6.75	3.50	6.75	4.42	4000	84.2	F	F
4.30-5.30 PM	AADT * 2.738	85	7.09	3.68	7.09	4.64	4000	77.8	E	F

Entry Width for Ira-Needle/Trussler/Highview Roundabout

Timeframe	AADT Assumptions	CL	ENTRY WIDTH- IRA NEEDLE SOUTH	ENTRY WIDTH - TRUSSLER	ENTRY WIDTH - IRA NEEDLE NORTH	ENTRY WIDTH- HIGHVIEW	AADT	AVERAGE DELAY	LOS SIG	LOS UNSIG
8.30-9.30 AM	AADT * 1	50	6.88	4.64	6.89	4.77	1205	2.7	A	A
8.30-9.30 AM	AADT * 1	50	7.26	4.90	7.27	5.04	1205	2.5	A	A
8.30-9.30 AM	AADT * 1	50	7.64	5.16	7.65	5.30	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	8.02	5.42	8.03	5.57	1205	2.2	A	A
8.30-9.30 AM	AADT * 1	50	8.40	5.68	8.42	5.83	1205	2.2	A	A
8.30-9.30 AM	AADT * 1	50	8.79	5.93	8.80	6.10	1205	2.1	A	A
8.30-9.30 AM	AADT * 1	50	9.17	6.19	9.18	6.36	1205	2	A	A
8.30-9.30 AM	AADT * 1	50	9.55	6.45	9.56	6.63	1205	1.9	A	A
8.30-9.30 AM	AADT * 1	50	9.93	6.71	9.95	6.89	1205	1.9	A	A
8.30-9.30 AM	AADT * 1	50	10.31	6.97	10.33	7.16	1205	1.9	A	A
8.30-9.30 AM	AADT * 1	50	10.70	7.22	10.71	7.42	1205	1.8	A	A
8.30-9.30 AM	AADT * 1	50	11.08	7.48	11.09	7.69	1205	1.8	A	A
8.30-9.30 AM	AADT * 1	50	11.46	7.74	11.48	7.95	1205	1.8	A	A
8.30-9.30 AM	AADT * 1.66	50	6.88	4.64	6.89	4.77	2000	3.9	A	A
8.30-9.30 AM	AADT * 1.66	50	7.26	4.90	7.27	5.04	2000	3.7	A	A
8.30-9.30 AM	AADT * 1.66	50	7.64	5.16	7.65	5.30	2000	3.4	A	A
8.30-9.30 AM	AADT * 1.66	50	8.02	5.42	8.03	5.57	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	8.40	5.68	8.42	5.83	2000	3	A	A
8.30-9.30 AM	AADT * 1.66	50	8.79	5.93	8.80	6.10	2000	2.8	A	A
8.30-9.30 AM	AADT * 1.66	50	9.17	6.19	9.18	6.36	2000	2.7	A	A
8.30-9.30 AM	AADT * 1.66	50	9.55	6.45	9.56	6.63	2000	2.6	A	A
8.30-9.30 AM	AADT * 1.66	50	9.93	6.71	9.95	6.89	2000	2.5	A	A
8.30-9.30 AM	AADT * 1.66	50	10.31	6.97	10.33	7.16	2000	2.4	A	A
8.30-9.30 AM	AADT * 1.66	50	10.70	7.22	10.71	7.42	2000	2.3	A	A
8.30-9.30 AM	AADT * 1.66	50	11.08	7.48	11.09	7.69	2000	2.3	A	A
8.30-9.30 AM	AADT * 1.66	50	11.46	7.74	11.48	7.95	2000	2.3	A	A
8.30-9.30 AM	AADT * 2.49	50	6.88	4.64	6.89	4.77	3000	10.6	B	B
8.30-9.30 AM	AADT * 2.49	50	7.26	4.90	7.27	5.04	3000	8	A	A
8.30-9.30 AM	AADT * 2.49	50	7.64	5.16	7.65	5.30	3000	6.7	A	A
8.30-9.30 AM	AADT * 2.49	50	8.02	5.42	8.03	5.57	3000	5.8	A	A
8.30-9.30 AM	AADT * 2.49	50	8.40	5.68	8.42	5.83	3000	5.2	A	A
8.30-9.30 AM	AADT * 2.49	50	8.79	5.93	8.80	6.10	3000	4.7	A	A
8.30-9.30 AM	AADT * 2.49	50	9.17	6.19	9.18	6.36	3000	4.4	A	A
8.30-9.30 AM	AADT * 2.49	50	9.55	6.45	9.56	6.63	3000	4.1	A	A
8.30-9.30 AM	AADT * 2.49	50	9.93	6.71	9.95	6.89	3000	3.9	A	A
8.30-9.30 AM	AADT * 2.49	50	10.31	6.97	10.33	7.16	3000	3.7	A	A
8.30-9.30 AM	AADT * 2.49	50	10.70	7.22	10.71	7.42	3000	3.6	A	A
8.30-9.30 AM	AADT * 2.49	50	11.08	7.48	11.09	7.69	3000	3.5	A	A
8.30-9.30 AM	AADT * 2.49	50	11.46	7.74	11.48	7.95	3000	3.5	A	A
8.30-9.30 AM	AADT * 3.32	50	6.88	4.64	6.89	4.77	4000	129.5	F	F
8.30-9.30 AM	AADT * 3.32	50	7.26	4.90	7.27	5.04	4000	106.4	F	F
8.30-9.30 AM	AADT * 3.32	50	7.64	5.16	7.65	5.30	4000	88.9	F	F
8.30-9.30 AM	AADT * 3.32	50	8.02	5.42	8.03	5.57	4000	74.2	E	F
8.30-9.30 AM	AADT * 3.32	50	8.40	5.68	8.42	5.83	4000	62.2	E	F

8.30-9.30 AM	AADT * 3.32	50	8.79	5.93	8.80	6.10	4000	51.6	D	F
8.30-9.30 AM	AADT * 3.32	50	9.17	6.19	9.18	6.36	4000	42.3	D	E
8.30-9.30 AM	AADT * 3.32	50	9.55	6.45	9.56	6.63	4000	33.8	C	D
8.30-9.30 AM	AADT * 3.32	50	9.93	6.71	9.95	6.89	4000	27.2	C	D
8.30-9.30 AM	AADT * 3.32	50	10.31	6.97	10.33	7.16	4000	22.7	C	C
8.30-9.30 AM	AADT * 3.32	50	10.70	7.22	10.71	7.42	4000	19	B	C
8.30-9.30 AM	AADT * 3.32	50	11.08	7.48	11.09	7.69	4000	15.9	B	C
8.30-9.30 AM	AADT * 3.32	50	11.46	7.74	11.48	7.95	4000	13.5	B	B
12.30-1.30 PM	AADT * 1	50	6.88	4.64	6.89	4.77	575	2.1	A	A
12.30-1.30 PM	AADT * 1	50	7.26	4.90	7.27	5.04	575	2	A	A
12.30-1.30 PM	AADT * 1	50	7.64	5.16	7.65	5.30	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	8.02	5.42	8.03	5.57	575	1.8	A	A
12.30-1.30 PM	AADT * 1	50	8.40	5.68	8.42	5.83	575	1.8	A	A
12.30-1.30 PM	AADT * 1	50	8.79	5.93	8.80	6.10	575	1.7	A	A
12.30-1.30 PM	AADT * 1	50	9.17	6.19	9.18	6.36	575	1.7	A	A
12.30-1.30 PM	AADT * 1	50	9.55	6.45	9.56	6.63	575	1.6	A	A
12.30-1.30 PM	AADT * 1	50	9.93	6.71	9.95	6.89	575	1.6	A	A
12.30-1.30 PM	AADT * 1	50	10.31	6.97	10.33	7.16	575	1.6	A	A
12.30-1.30 PM	AADT * 1	50	10.70	7.22	10.71	7.42	575	1.6	A	A
12.30-1.30 PM	AADT * 1	50	11.08	7.48	11.09	7.69	575	1.6	A	A
12.30-1.30 PM	AADT * 1	50	11.46	7.74	11.48	7.95	575	1.5	A	A
12.30-1.30 PM	AADT * 3.478	50	6.88	4.64	6.89	4.77	2000	3.7	A	A
12.30-1.30 PM	AADT * 3.478	50	7.26	4.90	7.27	5.04	2000	3.4	A	A
12.30-1.30 PM	AADT * 3.478	50	7.64	5.16	7.65	5.30	2000	3.1	A	A
12.30-1.30 PM	AADT * 3.478	50	8.02	5.42	8.03	5.57	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	8.40	5.68	8.42	5.83	2000	2.8	A	A
12.30-1.30 PM	AADT * 3.478	50	8.79	5.93	8.80	6.10	2000	2.7	A	A
12.30-1.30 PM	AADT * 3.478	50	9.17	6.19	9.18	6.36	2000	2.6	A	A
12.30-1.30 PM	AADT * 3.478	50	9.55	6.45	9.56	6.63	2000	2.5	A	A
12.30-1.30 PM	AADT * 3.478	50	9.93	6.71	9.95	6.89	2000	2.4	A	A
12.30-1.30 PM	AADT * 3.478	50	10.31	6.97	10.33	7.16	2000	2.3	A	A
12.30-1.30 PM	AADT * 3.478	50	10.70	7.22	10.71	7.42	2000	2.3	A	A
12.30-1.30 PM	AADT * 3.478	50	11.08	7.48	11.09	7.69	2000	2.3	A	A
12.30-1.30 PM	AADT * 3.478	50	11.46	7.74	11.48	7.95	2000	2.3	A	A
12.30-1.30 PM	AADT * 5.217	50	6.88	4.64	6.89	4.77	3000	9	A	A
12.30-1.30 PM	AADT * 5.217	50	7.26	4.90	7.27	5.04	3000	7.2	A	A
12.30-1.30 PM	AADT * 5.217	50	7.64	5.16	7.65	5.30	3000	6.2	A	A
12.30-1.30 PM	AADT * 5.217	50	8.02	5.42	8.03	5.57	3000	5.5	A	A
12.30-1.30 PM	AADT * 5.217	50	8.40	5.68	8.42	5.83	3000	4.9	A	A
12.30-1.30 PM	AADT * 5.217	50	8.79	5.93	8.80	6.10	3000	4.5	A	A
12.30-1.30 PM	AADT * 5.217	50	9.17	6.19	9.18	6.36	3000	4.2	A	A
12.30-1.30 PM	AADT * 5.217	50	9.55	6.45	9.56	6.63	3000	4	A	A
12.30-1.30 PM	AADT * 5.217	50	9.93	6.71	9.95	6.89	3000	3.8	A	A
12.30-1.30 PM	AADT * 5.217	50	10.31	6.97	10.33	7.16	3000	3.7	A	A
12.30-1.30 PM	AADT * 5.217	50	10.70	7.22	10.71	7.42	3000	3.6	A	A
12.30-1.30 PM	AADT * 5.217	50	11.08	7.48	11.09	7.69	3000	3.6	A	A
12.30-1.30 PM	AADT * 5.217	50	11.46	7.74	11.48	7.95	3000	3.5	A	A
12.30-1.30 PM	AADT * 6.956	50	6.88	4.64	6.89	4.77	4000	137	F	F

12.30-1.30 PM	AADT *6.956	50	7.26	4.90	7.27	5.04	4000	105.5	F	F
12.30-1.30 PM	AADT *6.956	50	7.64	5.16	7.65	5.30	4000	81.5	F	F
12.30-1.30 PM	AADT *6.956	50	8.02	5.42	8.03	5.57	4000	64.6	E	F
12.30-1.30 PM	AADT *6.956	50	8.40	5.68	8.42	5.83	4000	51.4	D	F
12.30-1.30 PM	AADT *6.956	50	8.79	5.93	8.80	6.10	4000	40.8	D	E
12.30-1.30 PM	AADT *6.956	50	9.17	6.19	9.18	6.36	4000	32.3	C	D
12.30-1.30 PM	AADT *6.956	50	9.55	6.45	9.56	6.63	4000	25.3	C	C
12.30-1.30 PM	AADT *6.956	50	9.93	6.71	9.95	6.89	4000	21.1	C	C
12.30-1.30 PM	AADT *6.956	50	10.31	6.97	10.33	7.16	4000	17.7	B	C
12.30-1.30 PM	AADT *6.956	50	10.70	7.22	10.71	7.42	4000	15.1	B	C
12.30-1.30 PM	AADT *6.956	50	11.08	7.48	11.09	7.69	4000	13	B	B
12.30-1.30 PM	AADT *6.956	50	11.46	7.74	11.48	7.95	4000	11.6	B	B
4.30-5.30 PM	AADT * 1	50	6.88	4.64	6.89	4.77	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	50	7.26	4.90	7.27	5.04	1461	2.5	A	A
4.30-5.30 PM	AADT * 1	50	7.64	5.16	7.65	5.30	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	8.02	5.42	8.03	5.57	1461	2.2	A	A
4.30-5.30 PM	AADT * 1	50	8.40	5.68	8.42	5.83	1461	2.1	A	A
4.30-5.30 PM	AADT * 1	50	8.79	5.93	8.80	6.10	1461	2	A	A
4.30-5.30 PM	AADT * 1	50	9.17	6.19	9.18	6.36	1461	2	A	A
4.30-5.30 PM	AADT * 1	50	9.55	6.45	9.56	6.63	1461	1.9	A	A
4.30-5.30 PM	AADT * 1	50	9.93	6.71	9.95	6.89	1461	1.9	A	A
4.30-5.30 PM	AADT * 1	50	10.31	6.97	10.33	7.16	1461	1.8	A	A
4.30-5.30 PM	AADT * 1	50	10.70	7.22	10.71	7.42	1461	1.8	A	A
4.30-5.30 PM	AADT * 1	50	11.08	7.48	11.09	7.69	1461	1.8	A	A
4.30-5.30 PM	AADT * 1	50	11.46	7.74	11.48	7.95	1461	1.8	A	A
4.30-5.30 PM	AADT * 1.37	50	6.88	4.64	6.89	4.77	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.37	50	7.26	4.90	7.27	5.04	2000	3	A	A
4.30-5.30 PM	AADT * 1.37	50	7.64	5.16	7.65	5.30	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	8.02	5.42	8.03	5.57	2000	2.6	A	A
4.30-5.30 PM	AADT * 1.37	50	8.40	5.68	8.42	5.83	2000	2.5	A	A
4.30-5.30 PM	AADT * 1.37	50	8.79	5.93	8.80	6.10	2000	2.4	A	A
4.30-5.30 PM	AADT * 1.37	50	9.17	6.19	9.18	6.36	2000	2.3	A	A
4.30-5.30 PM	AADT * 1.37	50	9.55	6.45	9.56	6.63	2000	2.2	A	A
4.30-5.30 PM	AADT * 1.37	50	9.93	6.71	9.95	6.89	2000	2.2	A	A
4.30-5.30 PM	AADT * 1.37	50	10.31	6.97	10.33	7.16	2000	2.1	A	A
4.30-5.30 PM	AADT * 1.37	50	10.70	7.22	10.71	7.42	2000	2.1	A	A
4.30-5.30 PM	AADT * 1.37	50	11.08	7.48	11.09	7.69	2000	2.1	A	A
4.30-5.30 PM	AADT * 1.37	50	11.46	7.74	11.48	7.95	2000	2.1	A	A
4.30-5.30 PM	AADT * 2.053	50	6.88	4.64	6.89	4.77	3000	6.5	A	A
4.30-5.30 PM	AADT * 2.053	50	7.26	4.90	7.27	5.04	3000	5.4	A	A
4.30-5.30 PM	AADT * 2.053	50	7.64	5.16	7.65	5.30	3000	4.7	A	A
4.30-5.30 PM	AADT * 2.053	50	8.02	5.42	8.03	5.57	3000	4.3	A	A
4.30-5.30 PM	AADT * 2.053	50	8.40	5.68	8.42	5.83	3000	3.7	A	A
4.30-5.30 PM	AADT * 2.053	50	8.79	5.93	8.80	6.10	3000	3.5	A	A
4.30-5.30 PM	AADT * 2.053	50	9.17	6.19	9.18	6.36	3000	3.4	A	A
4.30-5.30 PM	AADT * 2.053	50	9.55	6.45	9.56	6.63	3000	3.3	A	A
4.30-5.30 PM	AADT * 2.053	50	9.93	6.71	9.95	6.89	3000	3.1	A	A
4.30-5.30 PM	AADT * 2.053	50	10.31	6.97	10.33	7.16	3000	3.1	A	A

4.30-5.30 PM	AADT * 2.053	50	10.70	7.22	10.71	7.42	3000	3	A	A
4.30-5.30 PM	AADT * 2.053	50	11.08	7.48	11.09	7.69	3000	3	A	A
4.30-5.30 PM	AADT * 2.053	50	11.46	7.74	11.48	7.95	3000	3	A	A
4.30-5.30 PM	AADT * 2.738	50	6.88	4.64	6.89	4.77	4000	78.9	E	F
4.30-5.30 PM	AADT * 2.738	50	7.26	4.90	7.27	5.04	4000	51	D	F
4.30-5.30 PM	AADT * 2.738	50	7.64	5.16	7.65	5.30	4000	30.9	C	D
4.30-5.30 PM	AADT * 2.738	50	8.02	5.42	8.03	5.57	4000	20	C	C
4.30-5.30 PM	AADT * 2.738	50	8.40	5.68	8.42	5.83	4000	13.6	B	B
4.30-5.30 PM	AADT * 2.738	50	8.79	5.93	8.80	6.10	4000	10.3	B	B
4.30-5.30 PM	AADT * 2.738	50	9.17	6.19	9.18	6.36	4000	8.4	A	A
4.30-5.30 PM	AADT * 2.738	50	9.55	6.45	9.56	6.63	4000	7.2	A	A
4.30-5.30 PM	AADT * 2.738	50	9.93	6.71	9.95	6.89	4000	6.4	A	A
4.30-5.30 PM	AADT * 2.738	50	10.31	6.97	10.33	7.16	4000	6.3	A	A
4.30-5.30 PM	AADT * 2.738	50	10.70	7.22	10.71	7.42	4000	6.2	A	A
4.30-5.30 PM	AADT * 2.738	50	11.08	7.48	11.09	7.69	4000	6.1	A	A
4.30-5.30 PM	AADT * 2.738	50	11.46	7.74	11.48	7.95	4000	6.1	A	A
8.30-9.30 AM	AADT * 1	85	6.88	4.64	6.89	4.77	1205	3.2	A	A
8.30-9.30 AM	AADT * 1	85	7.26	4.90	7.27	5.04	1205	3	A	A
8.30-9.30 AM	AADT * 1	85	7.64	5.16	7.65	5.30	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	8.02	5.42	8.03	5.57	1205	2.6	A	A
8.30-9.30 AM	AADT * 1	85	8.40	5.68	8.42	5.83	1205	2.5	A	A
8.30-9.30 AM	AADT * 1	85	8.79	5.93	8.80	6.10	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	85	9.17	6.19	9.18	6.36	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	85	9.55	6.45	9.56	6.63	1205	2.2	A	A
8.30-9.30 AM	AADT * 1	85	9.93	6.71	9.95	6.89	1205	2.1	A	A
8.30-9.30 AM	AADT * 1	85	10.31	6.97	10.33	7.16	1205	2.1	A	A
8.30-9.30 AM	AADT * 1	85	10.70	7.22	10.71	7.42	1205	2.1	A	A
8.30-9.30 AM	AADT * 1	85	11.08	7.48	11.09	7.69	1205	2.1	A	A
8.30-9.30 AM	AADT * 1	85	11.46	7.74	11.48	7.95	1205	2	A	A
8.30-9.30 AM	AADT * 1.66	85	6.88	4.64	6.89	4.77	2000	5.1	A	A
8.30-9.30 AM	AADT * 1.66	85	7.26	4.90	7.27	5.04	2000	4.5	A	A
8.30-9.30 AM	AADT * 1.66	85	7.64	5.16	7.65	5.30	2000	4.1	A	A
8.30-9.30 AM	AADT * 1.66	85	8.02	5.42	8.03	5.57	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.66	85	8.40	5.68	8.42	5.83	2000	3.5	A	A
8.30-9.30 AM	AADT * 1.66	85	8.79	5.93	8.80	6.10	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.66	85	9.17	6.19	9.18	6.36	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.66	85	9.55	6.45	9.56	6.63	2000	3	A	A
8.30-9.30 AM	AADT * 1.66	85	9.93	6.71	9.95	6.89	2000	2.9	A	A
8.30-9.30 AM	AADT * 1.66	85	10.31	6.97	10.33	7.16	2000	2.8	A	A
8.30-9.30 AM	AADT * 1.66	85	10.70	7.22	10.71	7.42	2000	2.7	A	A
8.30-9.30 AM	AADT * 1.66	85	11.08	7.48	11.09	7.69	2000	2.7	A	A
8.30-9.30 AM	AADT * 1.66	85	11.46	7.74	11.48	7.95	2000	2.6	A	A
8.30-9.30 AM	AADT * 2.49	85	6.88	4.64	6.89	4.77	3000	54.4	D	F
8.30-9.30 AM	AADT * 2.49	85	7.26	4.90	7.27	5.04	3000	35.2	D	E
8.30-9.30 AM	AADT * 2.49	85	7.64	5.16	7.65	5.30	3000	22.8	C	C
8.30-9.30 AM	AADT * 2.49	85	8.02	5.42	8.03	5.57	3000	15.4	B	C
8.30-9.30 AM	AADT * 2.49	85	8.40	5.68	8.42	5.83	3000	11.2	B	B
8.30-9.30 AM	AADT * 2.49	85	8.79	5.93	8.80	6.10	3000	8.8	A	A

8.30-9.30 AM	AADT * 2.49	85	9.17	6.19	9.18	6.36	3000	7.5	A	A
8.30-9.30 AM	AADT * 2.49	85	9.55	6.45	9.56	6.63	3000	6.5	A	A
8.30-9.30 AM	AADT * 2.49	85	9.93	6.71	9.95	6.89	3000	5.9	A	A
8.30-9.30 AM	AADT * 2.49	85	10.31	6.97	10.33	7.16	3000	5.5	A	A
8.30-9.30 AM	AADT * 2.49	85	10.70	7.22	10.71	7.42	3000	5.2	A	A
8.30-9.30 AM	AADT * 2.49	85	11.08	7.48	11.09	7.69	3000	4.9	A	A
8.30-9.30 AM	AADT * 2.49	85	11.46	7.74	11.48	7.95	3000	4.7	A	A
8.30-9.30 AM	AADT * 3.32	85	6.88	4.64	6.89	4.77	4000	260.4	F	F
8.30-9.30 AM	AADT * 3.32	85	7.26	4.90	7.27	5.04	4000	225.4	F	F
8.30-9.30 AM	AADT * 3.32	85	7.64	5.16	7.65	5.30	4000	197.2	F	F
8.30-9.30 AM	AADT * 3.32	85	8.02	5.42	8.03	5.57	4000	172.6	F	F
8.30-9.30 AM	AADT * 3.32	85	8.40	5.68	8.42	5.83	4000	151.6	F	F
8.30-9.30 AM	AADT * 3.32	85	8.79	5.93	8.80	6.10	4000	133.3	F	F
8.30-9.30 AM	AADT * 3.32	85	9.17	6.19	9.18	6.36	4000	117.5	F	F
8.30-9.30 AM	AADT * 3.32	85	9.55	6.45	9.56	6.63	4000	103.9	F	F
8.30-9.30 AM	AADT * 3.32	85	9.93	6.71	9.95	6.89	4000	92.4	F	F
8.30-9.30 AM	AADT * 3.32	85	10.31	6.97	10.33	7.16	4000	82.2	F	F
8.30-9.30 AM	AADT * 3.32	85	10.70	7.22	10.71	7.42	4000	73.4	E	F
8.30-9.30 AM	AADT * 3.32	85	11.08	7.48	11.09	7.69	4000	65.2	E	F
8.30-9.30 AM	AADT * 3.32	85	11.46	7.74	11.48	7.95	4000	57.8	E	F
12.30-1.30 PM	AADT * 1	85	6.88	4.64	6.89	4.77	575	2.4	A	A
12.30-1.30 PM	AADT * 1	85	7.26	4.90	7.27	5.04	575	2.3	A	A
12.30-1.30 PM	AADT * 1	85	7.64	5.16	7.65	5.30	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	8.02	5.42	8.03	5.57	575	2.1	A	A
12.30-1.30 PM	AADT * 1	85	8.40	5.68	8.42	5.83	575	2	A	A
12.30-1.30 PM	AADT * 1	85	8.79	5.93	8.80	6.10	575	1.9	A	A
12.30-1.30 PM	AADT * 1	85	9.17	6.19	9.18	6.36	575	1.9	A	A
12.30-1.30 PM	AADT * 1	85	9.55	6.45	9.56	6.63	575	1.8	A	A
12.30-1.30 PM	AADT * 1	85	9.93	6.71	9.95	6.89	575	1.8	A	A
12.30-1.30 PM	AADT * 1	85	10.31	6.97	10.33	7.16	575	1.7	A	A
12.30-1.30 PM	AADT * 1	85	10.70	7.22	10.71	7.42	575	1.7	A	A
12.30-1.30 PM	AADT * 1	85	11.08	7.48	11.09	7.69	575	1.7	A	A
12.30-1.30 PM	AADT * 1	85	11.46	7.74	11.48	7.95	575	1.7	A	A
12.30-1.30 PM	AADT * 3.478	85	6.88	4.64	6.89	4.77	2000	4.8	A	A
12.30-1.30 PM	AADT * 3.478	85	7.26	4.90	7.27	5.04	2000	4.3	A	A
12.30-1.30 PM	AADT * 3.478	85	7.64	5.16	7.65	5.30	2000	3.9	A	A
12.30-1.30 PM	AADT * 3.478	85	8.02	5.42	8.03	5.57	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	8.40	5.68	8.42	5.83	2000	3.4	A	A
12.30-1.30 PM	AADT * 3.478	85	8.79	5.93	8.80	6.10	2000	3.2	A	A
12.30-1.30 PM	AADT * 3.478	85	9.17	6.19	9.18	6.36	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	85	9.55	6.45	9.56	6.63	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	85	9.93	6.71	9.95	6.89	2000	2.8	A	A
12.30-1.30 PM	AADT * 3.478	85	10.31	6.97	10.33	7.16	2000	2.8	A	A
12.30-1.30 PM	AADT * 3.478	85	10.70	7.22	10.71	7.42	2000	2.7	A	A
12.30-1.30 PM	AADT * 3.478	85	11.08	7.48	11.09	7.69	2000	2.7	A	A
12.30-1.30 PM	AADT * 3.478	85	11.46	7.74	11.48	7.95	2000	2.7	A	A
12.30-1.30 PM	AADT * 5.217	85	6.88	4.64	6.89	4.77	3000	39.8	D	E
12.30-1.30 PM	AADT * 5.217	85	7.26	4.90	7.27	5.04	3000	24	C	C

12.30-1.30 PM	AADT * 5.217	85	7.64	5.16	7.65	5.30	3000	15.8	B	C
12.30-1.30 PM	AADT * 5.217	85	8.02	5.42	8.03	5.57	3000	11.1	B	B
12.30-1.30 PM	AADT * 5.217	85	8.40	5.68	8.42	5.83	3000	8.7	A	A
12.30-1.30 PM	AADT * 5.217	85	8.79	5.93	8.80	6.10	3000	7.3	A	A
12.30-1.30 PM	AADT * 5.217	85	9.17	6.19	9.18	6.36	3000	6.4	A	A
12.30-1.30 PM	AADT * 5.217	85	9.55	6.45	9.56	6.63	3000	5.7	A	A
12.30-1.30 PM	AADT * 5.217	85	9.93	6.71	9.95	6.89	3000	5.3	A	A
12.30-1.30 PM	AADT * 5.217	85	10.31	6.97	10.33	7.16	3000	5	A	A
12.30-1.30 PM	AADT * 5.217	85	10.70	7.22	10.71	7.42	3000	4.9	A	A
12.30-1.30 PM	AADT * 5.217	85	11.08	7.48	11.09	7.69	3000	4.7	A	A
12.30-1.30 PM	AADT * 5.217	85	11.46	7.74	11.48	7.95	3000	4.6	A	A
12.30-1.30 PM	AADT * 6.956	85	6.88	4.64	6.89	4.77	4000	266.6	F	F
12.30-1.30 PM	AADT * 6.956	85	7.26	4.90	7.27	5.04	4000	220.6	F	F
12.30-1.30 PM	AADT * 6.956	85	7.64	5.16	7.65	5.30	4000	185.2	F	F
12.30-1.30 PM	AADT * 6.956	85	8.02	5.42	8.03	5.57	4000	155	F	F
12.30-1.30 PM	AADT * 6.956	85	8.40	5.68	8.42	5.83	4000	129.8	F	F
12.30-1.30 PM	AADT * 6.956	85	8.79	5.93	8.80	6.10	4000	109.1	F	F
12.30-1.30 PM	AADT * 6.956	85	9.17	6.19	9.18	6.36	4000	94.1	F	F
12.30-1.30 PM	AADT * 6.956	85	9.55	6.45	9.56	6.63	4000	81.6	F	F
12.30-1.30 PM	AADT * 6.956	85	9.93	6.71	9.95	6.89	4000	71.7	E	F
12.30-1.30 PM	AADT * 6.956	85	10.31	6.97	10.33	7.16	4000	64.4	E	F
12.30-1.30 PM	AADT * 6.956	85	10.70	7.22	10.71	7.42	4000	58.1	E	F
12.30-1.30 PM	AADT * 6.956	85	11.08	7.48	11.09	7.69	4000	52.2	D	F
12.30-1.30 PM	AADT * 6.956	85	11.46	7.74	11.48	7.95	4000	47	D	E
4.30-5.30 PM	AADT * 1	85	6.88	4.64	6.89	4.77	1461	3.2	A	A
4.30-5.30 PM	AADT * 1	85	7.26	4.90	7.27	5.04	1461	2.9	A	A
4.30-5.30 PM	AADT * 1	85	7.64	5.16	7.65	5.30	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	8.02	5.42	8.03	5.57	1461	2.6	A	A
4.30-5.30 PM	AADT * 1	85	8.40	5.68	8.42	5.83	1461	2.5	A	A
4.30-5.30 PM	AADT * 1	85	8.79	5.93	8.80	6.10	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	85	9.17	6.19	9.18	6.36	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	85	9.55	6.45	9.56	6.63	1461	2.2	A	A
4.30-5.30 PM	AADT * 1	85	9.93	6.71	9.95	6.89	1461	2.1	A	A
4.30-5.30 PM	AADT * 1	85	10.31	6.97	10.33	7.16	1461	2.1	A	A
4.30-5.30 PM	AADT * 1	85	10.70	7.22	10.71	7.42	1461	2.1	A	A
4.30-5.30 PM	AADT * 1	85	11.08	7.48	11.09	7.69	1461	2	A	A
4.30-5.30 PM	AADT * 1	85	11.46	7.74	11.48	7.95	1461	2	A	A
4.30-5.30 PM	AADT * 1.37	85	6.88	4.64	6.89	4.77	2000	4.1	A	A
4.30-5.30 PM	AADT * 1.37	85	7.26	4.90	7.27	5.04	2000	3.7	A	A
4.30-5.30 PM	AADT * 1.37	85	7.64	5.16	7.65	5.30	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	8.02	5.42	8.03	5.57	2000	3.2	A	A
4.30-5.30 PM	AADT * 1.37	85	8.40	5.68	8.42	5.83	2000	3	A	A
4.30-5.30 PM	AADT * 1.37	85	8.79	5.93	8.80	6.10	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	85	9.17	6.19	9.18	6.36	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.37	85	9.55	6.45	9.56	6.63	2000	2.6	A	A
4.30-5.30 PM	AADT * 1.37	85	9.93	6.71	9.95	6.89	2000	2.5	A	A
4.30-5.30 PM	AADT * 1.37	85	10.31	6.97	10.33	7.16	2000	2.5	A	A
4.30-5.30 PM	AADT * 1.37	85	10.70	7.22	10.71	7.42	2000	2.4	A	A

4.30-5.30 PM	AADT * 1.37	85	11.08	7.48	11.09	7.69	2000	2.4	A	A
4.30-5.30 PM	AADT * 1.37	85	11.46	7.74	11.48	7.95	2000	2.4	A	A
4.30-5.30 PM	AADT * 2.053	85	6.88	4.64	6.89	4.77	3000	12.1	B	B
4.30-5.30 PM	AADT * 2.053	85	7.26	4.90	7.27	5.04	3000	8.6	A	A
4.30-5.30 PM	AADT * 2.053	85	7.64	5.16	7.65	5.30	3000	7	A	A
4.30-5.30 PM	AADT * 2.053	85	8.02	5.42	8.03	5.57	3000	6	A	A
4.30-5.30 PM	AADT * 2.053	85	8.40	5.68	8.42	5.83	3000	5.3	A	A
4.30-5.30 PM	AADT * 2.053	85	8.79	5.93	8.80	6.10	3000	4.8	A	A
4.30-5.30 PM	AADT * 2.053	85	9.17	6.19	9.18	6.36	3000	4.4	A	A
4.30-5.30 PM	AADT * 2.053	85	9.55	6.45	9.56	6.63	3000	4.1	A	A
4.30-5.30 PM	AADT * 2.053	85	9.93	6.71	9.95	6.89	3000	3.9	A	A
4.30-5.30 PM	AADT * 2.053	85	10.31	6.97	10.33	7.16	3000	3.8	A	A
4.30-5.30 PM	AADT * 2.053	85	10.70	7.22	10.71	7.42	3000	3.8	A	A
4.30-5.30 PM	AADT * 2.053	85	11.08	7.48	11.09	7.69	3000	3.7	A	A
4.30-5.30 PM	AADT * 2.053	85	11.46	7.74	11.48	7.95	3000	3.7	A	A
4.30-5.30 PM	AADT * 2.738	85	6.88	4.64	6.89	4.77	4000	156.2	F	F
4.30-5.30 PM	AADT * 2.738	85	7.26	4.90	7.27	5.04	4000	114.5	F	F
4.30-5.30 PM	AADT * 2.738	85	7.64	5.16	7.65	5.30	4000	84.2	F	F
4.30-5.30 PM	AADT * 2.738	85	8.02	5.42	8.03	5.57	4000	60.5	E	F
4.30-5.30 PM	AADT * 2.738	85	8.40	5.68	8.42	5.83	4000	40.8	D	E
4.30-5.30 PM	AADT * 2.738	85	8.79	5.93	8.80	6.10	4000	28.9	C	D
4.30-5.30 PM	AADT * 2.738	85	9.17	6.19	9.18	6.36	4000	21	C	C
4.30-5.30 PM	AADT * 2.738	85	9.55	6.45	9.56	6.63	4000	15.7	B	C
4.30-5.30 PM	AADT * 2.738	85	9.93	6.71	9.95	6.89	4000	12.4	B	B
4.30-5.30 PM	AADT * 2.738	85	10.31	6.97	10.33	7.16	4000	11.8	B	B
4.30-5.30 PM	AADT * 2.738	85	10.70	7.22	10.71	7.42	4000	11.6	B	B
4.30-5.30 PM	AADT * 2.738	85	11.08	7.48	11.09	7.69	4000	11.4	B	B
4.30-5.30 PM	AADT * 2.738	85	11.46	7.74	11.48	7.95	4000	11.3	B	B

Flare Length for Ira-Needle/Trussler/Highview Roundabout

Timeframe	AADT Assumptions	CL	FLARE LENGHT- IRA NEEDLE SOUTH	FLARE LENGHT - TRUSSLER	FLARE LENGHT - IRA NEEDLE NORTH	FLARE LENGHT- HIGHVIEW	AADT	AVERAGE DELAY	LOS SIG	LOS UNSIG
8.30-9.30 AM	AADT * 1	50	21.00	9.35	9.70	10.06	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	23.10	10.29	10.67	11.06	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	25.20	11.22	11.64	12.07	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	27.30	12.16	12.61	13.07	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	29.40	13.09	13.58	14.08	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	31.50	14.03	14.55	15.08	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	33.60	14.96	15.52	16.09	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	35.70	15.90	16.49	17.09	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	37.80	16.83	17.46	18.10	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	39.90	17.77	18.43	19.10	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	42.00	18.70	19.40	20.11	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	44.10	19.64	20.37	21.12	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	46.20	20.57	21.34	22.12	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	48.30	21.51	22.31	23.13	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	50.40	22.44	23.28	24.13	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	52.50	23.38	24.25	25.14	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	54.60	24.31	25.22	26.14	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	56.70	25.25	26.19	27.15	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	58.80	26.18	27.16	28.15	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	60.90	27.12	28.13	29.16	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	63.00	28.05	29.10	30.17	1205	2.3	A	A
8.30-9.30 AM	AADT * 1.66	50	21.00	9.35	9.70	10.06	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.66	50	23.10	10.29	10.67	11.06	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.66	50	25.20	11.22	11.64	12.07	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.66	50	27.30	12.16	12.61	13.07	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.66	50	29.40	13.09	13.58	14.08	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	31.50	14.03	14.55	15.08	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	33.60	14.96	15.52	16.09	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	35.70	15.90	16.49	17.09	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	37.80	16.83	17.46	18.10	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	39.90	17.77	18.43	19.10	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	42.00	18.70	19.40	20.11	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	44.10	19.64	20.37	21.12	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	46.20	20.57	21.34	22.12	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	48.30	21.51	22.31	23.13	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	50.40	22.44	23.28	24.13	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	52.50	23.38	24.25	25.14	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	54.60	24.31	25.22	26.14	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	56.70	25.25	26.19	27.15	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	58.80	26.18	27.16	28.15	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	60.90	27.12	28.13	29.16	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	63.00	28.05	29.10	30.17	2000	3.2	A	A
8.30-9.30 AM	AADT * 2.49	50	21.00	9.35	9.70	10.06	3000	7.3	A	A

8.30-9.30 AM	AADT * 2.49	50	23.10	10.29	10.67	11.06	3000	7.2	A	A
8.30-9.30 AM	AADT * 2.49	50	25.20	11.22	11.64	12.07	3000	7.1	A	A
8.30-9.30 AM	AADT * 2.49	50	27.30	12.16	12.61	13.07	3000	7	A	A
8.30-9.30 AM	AADT * 2.49	50	29.40	13.09	13.58	14.08	3000	6.9	A	A
8.30-9.30 AM	AADT * 2.49	50	31.50	14.03	14.55	15.08	3000	6.9	A	A
8.30-9.30 AM	AADT * 2.49	50	33.60	14.96	15.52	16.09	3000	6.8	A	A
8.30-9.30 AM	AADT * 2.49	50	35.70	15.90	16.49	17.09	3000	6.8	A	A
8.30-9.30 AM	AADT * 2.49	50	37.80	16.83	17.46	18.10	3000	6.8	A	A
8.30-9.30 AM	AADT * 2.49	50	39.90	17.77	18.43	19.10	3000	6.7	A	A
8.30-9.30 AM	AADT * 2.49	50	42.00	18.70	19.40	20.11	3000	6.7	A	A
8.30-9.30 AM	AADT * 2.49	50	44.10	19.64	20.37	21.12	3000	6.7	A	A
8.30-9.30 AM	AADT * 2.49	50	46.20	20.57	21.34	22.12	3000	6.6	A	A
8.30-9.30 AM	AADT * 2.49	50	48.30	21.51	22.31	23.13	3000	6.6	A	A
8.30-9.30 AM	AADT * 2.49	50	50.40	22.44	23.28	24.13	3000	6.6	A	A
8.30-9.30 AM	AADT * 2.49	50	52.50	23.38	24.25	25.14	3000	6.6	A	A
8.30-9.30 AM	AADT * 2.49	50	54.60	24.31	25.22	26.14	3000	6.5	A	A
8.30-9.30 AM	AADT * 2.49	50	56.70	25.25	26.19	27.15	3000	6.5	A	A
8.30-9.30 AM	AADT * 2.49	50	58.80	26.18	27.16	28.15	3000	6.5	A	A
8.30-9.30 AM	AADT * 2.49	50	60.90	27.12	28.13	29.16	3000	6.5	A	A
8.30-9.30 AM	AADT * 2.49	50	63.00	28.05	29.10	30.17	3000	6.5	A	A
8.30-9.30 AM	AADT * 3.32	50	21.00	9.35	9.70	10.06	4000	101.6	F	F
8.30-9.30 AM	AADT * 3.32	50	23.10	10.29	10.67	11.06	4000	99.5	F	F
8.30-9.30 AM	AADT * 3.32	50	25.20	11.22	11.64	12.07	4000	97.5	F	F
8.30-9.30 AM	AADT * 3.32	50	27.30	12.16	12.61	13.07	4000	95.7	F	F
8.30-9.30 AM	AADT * 3.32	50	29.40	13.09	13.58	14.08	4000	94.2	F	F
8.30-9.30 AM	AADT * 3.32	50	31.50	14.03	14.55	15.08	4000	93	F	F
8.30-9.30 AM	AADT * 3.32	50	33.60	14.96	15.52	16.09	4000	92	F	F
8.30-9.30 AM	AADT * 3.32	50	35.70	15.90	16.49	17.09	4000	91.1	F	F
8.30-9.30 AM	AADT * 3.32	50	37.80	16.83	17.46	18.10	4000	90.3	F	F
8.30-9.30 AM	AADT * 3.32	50	39.90	17.77	18.43	19.10	4000	89.6	F	F
8.30-9.30 AM	AADT * 3.32	50	42.00	18.70	19.40	20.11	4000	88.9	F	F
8.30-9.30 AM	AADT * 3.32	50	44.10	19.64	20.37	21.12	4000	88.3	F	F
8.30-9.30 AM	AADT * 3.32	50	46.20	20.57	21.34	22.12	4000	87.8	F	F
8.30-9.30 AM	AADT * 3.32	50	48.30	21.51	22.31	23.13	4000	87.3	F	F
8.30-9.30 AM	AADT * 3.32	50	50.40	22.44	23.28	24.13	4000	86.8	F	F
8.30-9.30 AM	AADT * 3.32	50	52.50	23.38	24.25	25.14	4000	86.4	F	F
8.30-9.30 AM	AADT * 3.32	50	54.60	24.31	25.22	26.14	4000	86	F	F
8.30-9.30 AM	AADT * 3.32	50	56.70	25.25	26.19	27.15	4000	85.7	F	F
8.30-9.30 AM	AADT * 3.32	50	58.80	26.18	27.16	28.15	4000	85.4	F	F
8.30-9.30 AM	AADT * 3.32	50	60.90	27.12	28.13	29.16	4000	85.1	F	F
8.30-9.30 AM	AADT * 3.32	50	63.00	28.05	29.10	30.17	4000	84.8	F	F
12.30-1.30 PM	AADT * 1	50	21.00	9.35	9.70	10.06	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	23.10	10.29	10.67	11.06	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	25.20	11.22	11.64	12.07	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	27.30	12.16	12.61	13.07	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	29.40	13.09	13.58	14.08	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	31.50	14.03	14.55	15.08	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	33.60	14.96	15.52	16.09	575	1.9	A	A

12.30-1.30 PM	AADT * 1	50	35.70	15.90	16.49	17.09	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	37.80	16.83	17.46	18.10	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	39.90	17.77	18.43	19.10	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	42.00	18.70	19.40	20.11	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	44.10	19.64	20.37	21.12	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	46.20	20.57	21.34	22.12	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	48.30	21.51	22.31	23.13	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	50.40	22.44	23.28	24.13	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	52.50	23.38	24.25	25.14	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	54.60	24.31	25.22	26.14	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	56.70	25.25	26.19	27.15	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	58.80	26.18	27.16	28.15	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	60.90	27.12	28.13	29.16	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	63.00	28.05	29.10	30.17	575	1.9	A	A
12.30-1.30 PM	AADT * 3.478	50	21.00	9.35	9.70	10.06	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	23.10	10.29	10.67	11.06	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	25.20	11.22	11.64	12.07	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	27.30	12.16	12.61	13.07	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	29.40	13.09	13.58	14.08	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	31.50	14.03	14.55	15.08	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	33.60	14.96	15.52	16.09	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	35.70	15.90	16.49	17.09	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	37.80	16.83	17.46	18.10	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	39.90	17.77	18.43	19.10	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	42.00	18.70	19.40	20.11	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	44.10	19.64	20.37	21.12	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	46.20	20.57	21.34	22.12	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	48.30	21.51	22.31	23.13	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	50.40	22.44	23.28	24.13	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	52.50	23.38	24.25	25.14	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	54.60	24.31	25.22	26.14	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	56.70	25.25	26.19	27.15	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	58.80	26.18	27.16	28.15	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	60.90	27.12	28.13	29.16	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	63.00	28.05	29.10	30.17	2000	2.9	A	A
12.30-1.30 PM	AADT * 5.217	50	21.00	9.35	9.70	10.06	3000	5.2	A	A
12.30-1.30 PM	AADT * 5.217	50	23.10	10.29	10.67	11.06	3000	5.2	A	A
12.30-1.30 PM	AADT * 5.217	50	25.20	11.22	11.64	12.07	3000	5.1	A	A
12.30-1.30 PM	AADT * 5.217	50	27.30	12.16	12.61	13.07	3000	5.1	A	A
12.30-1.30 PM	AADT * 5.217	50	29.40	13.09	13.58	14.08	3000	5.1	A	A
12.30-1.30 PM	AADT * 5.217	50	31.50	14.03	14.55	15.08	3000	5	A	A
12.30-1.30 PM	AADT * 5.217	50	33.60	14.96	15.52	16.09	3000	5	A	A
12.30-1.30 PM	AADT * 5.217	50	35.70	15.90	16.49	17.09	3000	5	A	A
12.30-1.30 PM	AADT * 5.217	50	37.80	16.83	17.46	18.10	3000	5	A	A
12.30-1.30 PM	AADT * 5.217	50	39.90	17.77	18.43	19.10	3000	5	A	A
12.30-1.30 PM	AADT * 5.217	50	42.00	18.70	19.40	20.11	3000	5	A	A
12.30-1.30 PM	AADT * 5.217	50	44.10	19.64	20.37	21.12	3000	4.9	A	A
12.30-1.30 PM	AADT * 5.217	50	46.20	20.57	21.34	22.12	3000	4.9	A	A

12.30-1.30 PM	AADT * 5.217	50	48.30	21.51	22.31	23.13	3000	4.9	A	A
12.30-1.30 PM	AADT * 5.217	50	50.40	22.44	23.28	24.13	3000	4.9	A	A
12.30-1.30 PM	AADT * 5.217	50	52.50	23.38	24.25	25.14	3000	4.9	A	A
12.30-1.30 PM	AADT * 5.217	50	54.60	24.31	25.22	26.14	3000	4.9	A	A
12.30-1.30 PM	AADT * 5.217	50	56.70	25.25	26.19	27.15	3000	4.9	A	A
12.30-1.30 PM	AADT * 5.217	50	58.80	26.18	27.16	28.15	3000	4.9	A	A
12.30-1.30 PM	AADT * 5.217	50	60.90	27.12	28.13	29.16	3000	4.9	A	A
12.30-1.30 PM	AADT * 5.217	50	63.00	28.05	29.10	30.17	3000	4.9	A	A
12.30-1.30 PM	AADT * 6.956	50	21.00	9.35	9.70	10.06	4000	31.1	C	D
12.30-1.30 PM	AADT * 6.956	50	23.10	10.29	10.67	11.06	4000	30.2	C	D
12.30-1.30 PM	AADT * 6.956	50	25.20	11.22	11.64	12.07	4000	29.5	C	D
12.30-1.30 PM	AADT * 6.956	50	27.30	12.16	12.61	13.07	4000	28.8	C	D
12.30-1.30 PM	AADT * 6.956	50	29.40	13.09	13.58	14.08	4000	28.3	C	D
12.30-1.30 PM	AADT * 6.956	50	31.50	14.03	14.55	15.08	4000	27.9	C	D
12.30-1.30 PM	AADT * 6.956	50	33.60	14.96	15.52	16.09	4000	27.6	C	D
12.30-1.30 PM	AADT * 6.956	50	35.70	15.90	16.49	17.09	4000	27.3	C	D
12.30-1.30 PM	AADT * 6.956	50	37.80	16.83	17.46	18.10	4000	27	C	D
12.30-1.30 PM	AADT * 6.956	50	39.90	17.77	18.43	19.10	4000	26.8	C	D
12.30-1.30 PM	AADT * 6.956	50	42.00	18.70	19.40	20.11	4000	26.5	C	D
12.30-1.30 PM	AADT * 6.956	50	44.10	19.64	20.37	21.12	4000	26.3	C	D
12.30-1.30 PM	AADT * 6.956	50	46.20	20.57	21.34	22.12	4000	26.2	C	D
12.30-1.30 PM	AADT * 6.956	50	48.30	21.51	22.31	23.13	4000	26	C	D
12.30-1.30 PM	AADT * 6.956	50	50.40	22.44	23.28	24.13	4000	25.8	C	D
12.30-1.30 PM	AADT * 6.956	50	52.50	23.38	24.25	25.14	4000	25.7	C	D
12.30-1.30 PM	AADT * 6.956	50	54.60	24.31	25.22	26.14	4000	25.6	C	D
12.30-1.30 PM	AADT * 6.956	50	56.70	25.25	26.19	27.15	4000	25.4	C	D
12.30-1.30 PM	AADT * 6.956	50	58.80	26.18	27.16	28.15	4000	25.3	C	D
12.30-1.30 PM	AADT * 6.956	50	60.90	27.12	28.13	29.16	4000	25.2	C	D
12.30-1.30 PM	AADT * 6.956	50	63.00	28.05	29.10	30.17	4000	25.1	C	D
4.30-5.30 PM	AADT * 1	50	21.00	9.35	9.70	10.06	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	23.10	10.29	10.67	11.06	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	25.20	11.22	11.64	12.07	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	27.30	12.16	12.61	13.07	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	29.40	13.09	13.58	14.08	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	31.50	14.03	14.55	15.08	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	33.60	14.96	15.52	16.09	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	35.70	15.90	16.49	17.09	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	37.80	16.83	17.46	18.10	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	39.90	17.77	18.43	19.10	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	42.00	18.70	19.40	20.11	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	44.10	19.64	20.37	21.12	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	46.20	20.57	21.34	22.12	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	48.30	21.51	22.31	23.13	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	50.40	22.44	23.28	24.13	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	52.50	23.38	24.25	25.14	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	54.60	24.31	25.22	26.14	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	56.70	25.25	26.19	27.15	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	58.80	26.18	27.16	28.15	1461	2.3	A	A

4.30-5.30 PM	AADT * 1	50	60.90	27.12	28.13	29.16	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	63.00	28.05	29.10	30.17	1461	2.3	A	A
4.30-5.30 PM	AADT * 1.37	50	21.00	9.35	9.70	10.06	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.37	50	23.10	10.29	10.67	11.06	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.37	50	25.20	11.22	11.64	12.07	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.37	50	27.30	12.16	12.61	13.07	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.37	50	29.40	13.09	13.58	14.08	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	31.50	14.03	14.55	15.08	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	33.60	14.96	15.52	16.09	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	35.70	15.90	16.49	17.09	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	37.80	16.83	17.46	18.10	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	39.90	17.77	18.43	19.10	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	42.00	18.70	19.40	20.11	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	44.10	19.64	20.37	21.12	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	46.20	20.57	21.34	22.12	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	48.30	21.51	22.31	23.13	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	50.40	22.44	23.28	24.13	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	52.50	23.38	24.25	25.14	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	54.60	24.31	25.22	26.14	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	56.70	25.25	26.19	27.15	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	58.80	26.18	27.16	28.15	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	60.90	27.12	28.13	29.16	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	63.00	28.05	29.10	30.17	2000	2.8	A	A
4.30-5.30 PM	AADT * 2.053	50	21.00	9.35	9.70	10.06	3000	5	A	A
4.30-5.30 PM	AADT * 2.053	50	23.10	10.29	10.67	11.06	3000	4.9	A	A
4.30-5.30 PM	AADT * 2.053	50	25.20	11.22	11.64	12.07	3000	4.9	A	A
4.30-5.30 PM	AADT * 2.053	50	27.30	12.16	12.61	13.07	3000	4.9	A	A
4.30-5.30 PM	AADT * 2.053	50	29.40	13.09	13.58	14.08	3000	4.8	A	A
4.30-5.30 PM	AADT * 2.053	50	31.50	14.03	14.55	15.08	3000	4.8	A	A
4.30-5.30 PM	AADT * 2.053	50	33.60	14.96	15.52	16.09	3000	4.8	A	A
4.30-5.30 PM	AADT * 2.053	50	35.70	15.90	16.49	17.09	3000	4.8	A	A
4.30-5.30 PM	AADT * 2.053	50	37.80	16.83	17.46	18.10	3000	4.8	A	A
4.30-5.30 PM	AADT * 2.053	50	39.90	17.77	18.43	19.10	3000	4.8	A	A
4.30-5.30 PM	AADT * 2.053	50	42.00	18.70	19.40	20.11	3000	4.7	A	A
4.30-5.30 PM	AADT * 2.053	50	44.10	19.64	20.37	21.12	3000	4.7	A	A
4.30-5.30 PM	AADT * 2.053	50	46.20	20.57	21.34	22.12	3000	4.7	A	A
4.30-5.30 PM	AADT * 2.053	50	48.30	21.51	22.31	23.13	3000	4.7	A	A
4.30-5.30 PM	AADT * 2.053	50	50.40	22.44	23.28	24.13	3000	4.7	A	A
4.30-5.30 PM	AADT * 2.053	50	52.50	23.38	24.25	25.14	3000	4.7	A	A
4.30-5.30 PM	AADT * 2.053	50	54.60	24.31	25.22	26.14	3000	4.7	A	A
4.30-5.30 PM	AADT * 2.053	50	56.70	25.25	26.19	27.15	3000	4.7	A	A
4.30-5.30 PM	AADT * 2.053	50	58.80	26.18	27.16	28.15	3000	4.7	A	A
4.30-5.30 PM	AADT * 2.053	50	60.90	27.12	28.13	29.16	3000	4.7	A	A
4.30-5.30 PM	AADT * 2.053	50	63.00	28.05	29.10	30.17	3000	4.7	A	A
4.30-5.30 PM	AADT * 2.738	50	21.00	9.35	9.70	10.06	4000	35.5	D	E
4.30-5.30 PM	AADT * 2.738	50	23.10	10.29	10.67	11.06	4000	34.7	C	D
4.30-5.30 PM	AADT * 2.738	50	25.20	11.22	11.64	12.07	4000	34	C	D
4.30-5.30 PM	AADT * 2.738	50	27.30	12.16	12.61	13.07	4000	33.4	C	D

4.30-5.30 PM	AADT * 2.738	50	29.40	13.09	13.58	14.08	4000	32.9	C	D
4.30-5.30 PM	AADT * 2.738	50	31.50	14.03	14.55	15.08	4000	32.5	C	D
4.30-5.30 PM	AADT * 2.738	50	33.60	14.96	15.52	16.09	4000	32.1	C	D
4.30-5.30 PM	AADT * 2.738	50	35.70	15.90	16.49	17.09	4000	31.7	C	D
4.30-5.30 PM	AADT * 2.738	50	37.80	16.83	17.46	18.10	4000	31.4	C	D
4.30-5.30 PM	AADT * 2.738	50	39.90	17.77	18.43	19.10	4000	31.1	C	D
4.30-5.30 PM	AADT * 2.738	50	42.00	18.70	19.40	20.11	4000	30.9	C	D
4.30-5.30 PM	AADT * 2.738	50	44.10	19.64	20.37	21.12	4000	30.6	C	D
4.30-5.30 PM	AADT * 2.738	50	46.20	20.57	21.34	22.12	4000	30.4	C	D
4.30-5.30 PM	AADT * 2.738	50	48.30	21.51	22.31	23.13	4000	30.2	C	D
4.30-5.30 PM	AADT * 2.738	50	50.40	22.44	23.28	24.13	4000	30	C	D
4.30-5.30 PM	AADT * 2.738	50	52.50	23.38	24.25	25.14	4000	29.9	C	D
4.30-5.30 PM	AADT * 2.738	50	54.60	24.31	25.22	26.14	4000	29.7	C	D
4.30-5.30 PM	AADT * 2.738	50	56.70	25.25	26.19	27.15	4000	29.6	C	D
4.30-5.30 PM	AADT * 2.738	50	58.80	26.18	27.16	28.15	4000	29.4	C	D
4.30-5.30 PM	AADT * 2.738	50	60.90	27.12	28.13	29.16	4000	29.3	C	D
4.30-5.30 PM	AADT * 2.738	50	63.00	28.05	29.10	30.17	4000	29.2	C	D
8.30-9.30 AM	AADT * 1	85	21.00	9.35	9.70	10.06	1205	2.9	A	A
8.30-9.30 AM	AADT * 1	85	23.10	10.29	10.67	11.06	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	25.20	11.22	11.64	12.07	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	27.30	12.16	12.61	13.07	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	29.40	13.09	13.58	14.08	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	31.50	14.03	14.55	15.08	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	33.60	14.96	15.52	16.09	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	35.70	15.90	16.49	17.09	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	37.80	16.83	17.46	18.10	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	39.90	17.77	18.43	19.10	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	42.00	18.70	19.40	20.11	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	44.10	19.64	20.37	21.12	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	46.20	20.57	21.34	22.12	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	48.30	21.51	22.31	23.13	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	50.40	22.44	23.28	24.13	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	52.50	23.38	24.25	25.14	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	54.60	24.31	25.22	26.14	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	56.70	25.25	26.19	27.15	1205	2.7	A	A
8.30-9.30 AM	AADT * 1	85	58.80	26.18	27.16	28.15	1205	2.7	A	A
8.30-9.30 AM	AADT * 1	85	60.90	27.12	28.13	29.16	1205	2.7	A	A
8.30-9.30 AM	AADT * 1	85	63.00	28.05	29.10	30.17	1205	2.7	A	A
8.30-9.30 AM	AADT * 1.66	85	21.00	9.35	9.70	10.06	2000	4.3	A	A
8.30-9.30 AM	AADT * 1.66	85	23.10	10.29	10.67	11.06	2000	4.3	A	A
8.30-9.30 AM	AADT * 1.66	85	25.20	11.22	11.64	12.07	2000	4.2	A	A
8.30-9.30 AM	AADT * 1.66	85	27.30	12.16	12.61	13.07	2000	4.2	A	A
8.30-9.30 AM	AADT * 1.66	85	29.40	13.09	13.58	14.08	2000	4.2	A	A
8.30-9.30 AM	AADT * 1.66	85	31.50	14.03	14.55	15.08	2000	4.2	A	A
8.30-9.30 AM	AADT * 1.66	85	33.60	14.96	15.52	16.09	2000	4.1	A	A
8.30-9.30 AM	AADT * 1.66	85	35.70	15.90	16.49	17.09	2000	4.1	A	A
8.30-9.30 AM	AADT * 1.66	85	37.80	16.83	17.46	18.10	2000	4.1	A	A
8.30-9.30 AM	AADT * 1.66	85	39.90	17.77	18.43	19.10	2000	4.1	A	A

8.30-9.30 AM	AADT * 1.66	85	42.00	18.70	19.40	20.11	2000	4.1	A	A
8.30-9.30 AM	AADT * 1.66	85	44.10	19.64	20.37	21.12	2000	4.1	A	A
8.30-9.30 AM	AADT * 1.66	85	46.20	20.57	21.34	22.12	2000	4.1	A	A
8.30-9.30 AM	AADT * 1.66	85	48.30	21.51	22.31	23.13	2000	4.1	A	A
8.30-9.30 AM	AADT * 1.66	85	50.40	22.44	23.28	24.13	2000	4.1	A	A
8.30-9.30 AM	AADT * 1.66	85	52.50	23.38	24.25	25.14	2000	4.1	A	A
8.30-9.30 AM	AADT * 1.66	85	54.60	24.31	25.22	26.14	2000	4	A	A
8.30-9.30 AM	AADT * 1.66	85	56.70	25.25	26.19	27.15	2000	4	A	A
8.30-9.30 AM	AADT * 1.66	85	58.80	26.18	27.16	28.15	2000	4	A	A
8.30-9.30 AM	AADT * 1.66	85	60.90	27.12	28.13	29.16	2000	4	A	A
8.30-9.30 AM	AADT * 1.66	85	63.00	28.05	29.10	30.17	2000	4	A	A
8.30-9.30 AM	AADT * 2.49	85	21.00	9.35	9.70	10.06	3000	28.3	C	D
8.30-9.30 AM	AADT * 2.49	85	23.10	10.29	10.67	11.06	3000	27.2	C	D
8.30-9.30 AM	AADT * 2.49	85	25.20	11.22	11.64	12.07	3000	26.4	C	D
8.30-9.30 AM	AADT * 2.49	85	27.30	12.16	12.61	13.07	3000	25.7	C	D
8.30-9.30 AM	AADT * 2.49	85	29.40	13.09	13.58	14.08	3000	25.1	C	D
8.30-9.30 AM	AADT * 2.49	85	31.50	14.03	14.55	15.08	3000	24.6	C	C
8.30-9.30 AM	AADT * 2.49	85	33.60	14.96	15.52	16.09	3000	24.2	C	C
8.30-9.30 AM	AADT * 2.49	85	35.70	15.90	16.49	17.09	3000	23.8	C	C
8.30-9.30 AM	AADT * 2.49	85	37.80	16.83	17.46	18.10	3000	23.4	C	C
8.30-9.30 AM	AADT * 2.49	85	39.90	17.77	18.43	19.10	3000	23.1	C	C
8.30-9.30 AM	AADT * 2.49	85	42.00	18.70	19.40	20.11	3000	22.8	C	C
8.30-9.30 AM	AADT * 2.49	85	44.10	19.64	20.37	21.12	3000	22.6	C	C
8.30-9.30 AM	AADT * 2.49	85	46.20	20.57	21.34	22.12	3000	22.4	C	C
8.30-9.30 AM	AADT * 2.49	85	48.30	21.51	22.31	23.13	3000	22.2	C	C
8.30-9.30 AM	AADT * 2.49	85	50.40	22.44	23.28	24.13	3000	22	C	C
8.30-9.30 AM	AADT * 2.49	85	52.50	23.38	24.25	25.14	3000	21.8	C	C
8.30-9.30 AM	AADT * 2.49	85	54.60	24.31	25.22	26.14	3000	21.6	C	C
8.30-9.30 AM	AADT * 2.49	85	56.70	25.25	26.19	27.15	3000	21.5	C	C
8.30-9.30 AM	AADT * 2.49	85	58.80	26.18	27.16	28.15	3000	21.4	C	C
8.30-9.30 AM	AADT * 2.49	85	60.90	27.12	28.13	29.16	3000	21.2	C	C
8.30-9.30 AM	AADT * 2.49	85	63.00	28.05	29.10	30.17	3000	21.1	C	C
8.30-9.30 AM	AADT * 3.32	85	21.00	9.35	9.70	10.06	4000	220.8	F	F
8.30-9.30 AM	AADT * 3.32	85	23.10	10.29	10.67	11.06	4000	216.9	F	F
8.30-9.30 AM	AADT * 3.32	85	25.20	11.22	11.64	12.07	4000	213.5	F	F
8.30-9.30 AM	AADT * 3.32	85	27.30	12.16	12.61	13.07	4000	210.5	F	F
8.30-9.30 AM	AADT * 3.32	85	29.40	13.09	13.58	14.08	4000	207.9	F	F
8.30-9.30 AM	AADT * 3.32	85	31.50	14.03	14.55	15.08	4000	205.6	F	F
8.30-9.30 AM	AADT * 3.32	85	33.60	14.96	15.52	16.09	4000	203.6	F	F
8.30-9.30 AM	AADT * 3.32	85	35.70	15.90	16.49	17.09	4000	201.8	F	F
8.30-9.30 AM	AADT * 3.32	85	37.80	16.83	17.46	18.10	4000	199.4	F	F
8.30-9.30 AM	AADT * 3.32	85	39.90	17.77	18.43	19.10	4000	198.6	F	F
8.30-9.30 AM	AADT * 3.32	85	42.00	18.70	19.40	20.11	4000	197.2	F	F
8.30-9.30 AM	AADT * 3.32	85	44.10	19.64	20.37	21.12	4000	196	F	F
8.30-9.30 AM	AADT * 3.32	85	46.20	20.57	21.34	22.12	4000	194.8	F	F
8.30-9.30 AM	AADT * 3.32	85	48.30	21.51	22.31	23.13	4000	193.7	F	F
8.30-9.30 AM	AADT * 3.32	85	50.40	22.44	23.28	24.13	4000	192.8	F	F
8.30-9.30 AM	AADT * 3.32	85	52.50	23.38	24.25	25.14	4000	191.8	F	F

8.30-9.30 AM	AADT * 3.32	85	54.60	24.31	25.22	26.14	4000	191	F	F
8.30-9.30 AM	AADT * 3.32	85	56.70	25.25	26.19	27.15	4000	190.2	F	F
8.30-9.30 AM	AADT * 3.32	85	58.80	26.18	27.16	28.15	4000	189.5	F	F
8.30-9.30 AM	AADT * 3.32	85	60.90	27.12	28.13	29.16	4000	188.8	F	F
8.30-9.30 AM	AADT * 3.32	85	63.00	28.05	29.10	30.17	4000	188.1	F	F
12.30-1.30 PM	AADT * 1	85	21.00	9.35	9.70	10.06	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	23.10	10.29	10.67	11.06	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	25.20	11.22	11.64	12.07	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	27.30	12.16	12.61	13.07	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	29.40	13.09	13.58	14.08	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	31.50	14.03	14.55	15.08	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	33.60	14.96	15.52	16.09	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	35.70	15.90	16.49	17.09	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	37.80	16.83	17.46	18.10	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	39.90	17.77	18.43	19.10	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	42.00	18.70	19.40	20.11	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	44.10	19.64	20.37	21.12	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	46.20	20.57	21.34	22.12	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	48.30	21.51	22.31	23.13	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	50.40	22.44	23.28	24.13	575	2.1	A	A
12.30-1.30 PM	AADT * 1	85	52.50	23.38	24.25	25.14	575	2.1	A	A
12.30-1.30 PM	AADT * 1	85	54.60	24.31	25.22	26.14	575	2.1	A	A
12.30-1.30 PM	AADT * 1	85	56.70	25.25	26.19	27.15	575	2.1	A	A
12.30-1.30 PM	AADT * 1	85	58.80	26.18	27.16	28.15	575	2.1	A	A
12.30-1.30 PM	AADT * 1	85	60.90	27.12	28.13	29.16	575	2.1	A	A
12.30-1.30 PM	AADT * 1	85	63.00	28.05	29.10	30.17	575	2.1	A	A
12.30-1.30 PM	AADT * 3.478	85	21.00	9.35	9.70	10.06	2000	3.8	A	A
12.30-1.30 PM	AADT * 3.478	85	23.10	10.29	10.67	11.06	2000	3.7	A	A
12.30-1.30 PM	AADT * 3.478	85	25.20	11.22	11.64	12.07	2000	3.7	A	A
12.30-1.30 PM	AADT * 3.478	85	27.30	12.16	12.61	13.07	2000	3.7	A	A
12.30-1.30 PM	AADT * 3.478	85	29.40	13.09	13.58	14.08	2000	3.7	A	A
12.30-1.30 PM	AADT * 3.478	85	31.50	14.03	14.55	15.08	2000	3.7	A	A
12.30-1.30 PM	AADT * 3.478	85	33.60	14.96	15.52	16.09	2000	3.7	A	A
12.30-1.30 PM	AADT * 3.478	85	35.70	15.90	16.49	17.09	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	37.80	16.83	17.46	18.10	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	39.90	17.77	18.43	19.10	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	42.00	18.70	19.40	20.11	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	44.10	19.64	20.37	21.12	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	46.20	20.57	21.34	22.12	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	48.30	21.51	22.31	23.13	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	50.40	22.44	23.28	24.13	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	52.50	23.38	24.25	25.14	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	54.60	24.31	25.22	26.14	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	56.70	25.25	26.19	27.15	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	58.80	26.18	27.16	28.15	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	60.90	27.12	28.13	29.16	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	63.00	28.05	29.10	30.17	2000	3.6	A	A
12.30-1.30 PM	AADT * 5.217	85	21.00	9.35	9.70	10.06	3000	8.6	A	A

12.30-1.30 PM	AADT * 5.217	85	23.10	10.29	10.67	11.06	3000	8.5	A	A
12.30-1.30 PM	AADT * 5.217	85	25.20	11.22	11.64	12.07	3000	8.3	A	A
12.30-1.30 PM	AADT * 5.217	85	27.30	12.16	12.61	13.07	3000	8.2	A	A
12.30-1.30 PM	AADT * 5.217	85	29.40	13.09	13.58	14.08	3000	8.2	A	A
12.30-1.30 PM	AADT * 5.217	85	31.50	14.03	14.55	15.08	3000	8.1	A	A
12.30-1.30 PM	AADT * 5.217	85	33.60	14.96	15.52	16.09	3000	8	A	A
12.30-1.30 PM	AADT * 5.217	85	35.70	15.90	16.49	17.09	3000	8	A	A
12.30-1.30 PM	AADT * 5.217	85	37.80	16.83	17.46	18.10	3000	7.9	A	A
12.30-1.30 PM	AADT * 5.217	85	39.90	17.77	18.43	19.10	3000	7.9	A	A
12.30-1.30 PM	AADT * 5.217	85	42.00	18.70	19.40	20.11	3000	7.8	A	A
12.30-1.30 PM	AADT * 5.217	85	44.10	19.64	20.37	21.12	3000	7.8	A	A
12.30-1.30 PM	AADT * 5.217	85	46.20	20.57	21.34	22.12	3000	7.8	A	A
12.30-1.30 PM	AADT * 5.217	85	48.30	21.51	22.31	23.13	3000	7.7	A	A
12.30-1.30 PM	AADT * 5.217	85	50.40	22.44	23.28	24.13	3000	7.7	A	A
12.30-1.30 PM	AADT * 5.217	85	52.50	23.38	24.25	25.14	3000	7.7	A	A
12.30-1.30 PM	AADT * 5.217	85	54.60	24.31	25.22	26.14	3000	7.7	A	A
12.30-1.30 PM	AADT * 5.217	85	56.70	25.25	26.19	27.15	3000	7.6	A	A
12.30-1.30 PM	AADT * 5.217	85	58.80	26.18	27.16	28.15	3000	7.6	A	A
12.30-1.30 PM	AADT * 5.217	85	60.90	27.12	28.13	29.16	3000	7.6	A	A
12.30-1.30 PM	AADT * 5.217	85	63.00	28.05	29.10	30.17	3000	7.6	A	A
12.30-1.30 PM	AADT * 6.956	85	21.00	9.35	9.70	10.06	4000	107.2	F	F
12.30-1.30 PM	AADT * 6.956	85	23.10	10.29	10.67	11.06	4000	104.7	F	F
12.30-1.30 PM	AADT * 6.956	85	25.20	11.22	11.64	12.07	4000	102.6	F	F
12.30-1.30 PM	AADT * 6.956	85	27.30	12.16	12.61	13.07	4000	100.8	F	F
12.30-1.30 PM	AADT * 6.956	85	29.40	13.09	13.58	14.08	4000	99.2	F	F
12.30-1.30 PM	AADT * 6.956	85	31.50	14.03	14.55	15.08	4000	97.9	F	F
12.30-1.30 PM	AADT * 6.956	85	33.60	14.96	15.52	16.09	4000	96.7	F	F
12.30-1.30 PM	AADT * 6.956	85	35.70	15.90	16.49	17.09	4000	95.6	F	F
12.30-1.30 PM	AADT * 6.956	85	37.80	16.83	17.46	18.10	4000	94.7	F	F
12.30-1.30 PM	AADT * 6.956	85	39.90	17.77	18.43	19.10	4000	93.9	F	F
12.30-1.30 PM	AADT * 6.956	85	42.00	18.70	19.40	20.11	4000	93.2	F	F
12.30-1.30 PM	AADT * 6.956	85	44.10	19.64	20.37	21.12	4000	92.5	F	F
12.30-1.30 PM	AADT * 6.956	85	46.20	20.57	21.34	22.12	4000	91.9	F	F
12.30-1.30 PM	AADT * 6.956	85	48.30	21.51	22.31	23.13	4000	91.3	F	F
12.30-1.30 PM	AADT * 6.956	85	50.40	22.44	23.28	24.13	4000	90.8	F	F
12.30-1.30 PM	AADT * 6.956	85	52.50	23.38	24.25	25.14	4000	90.4	F	F
12.30-1.30 PM	AADT * 6.956	85	54.60	24.31	25.22	26.14	4000	90	F	F
12.30-1.30 PM	AADT * 6.956	85	56.70	25.25	26.19	27.15	4000	89.6	F	F
12.30-1.30 PM	AADT * 6.956	85	58.80	26.18	27.16	28.15	4000	89.2	F	F
12.30-1.30 PM	AADT * 6.956	85	60.90	27.12	28.13	29.16	4000	88.9	F	F
12.30-1.30 PM	AADT * 6.956	85	63.00	28.05	29.10	30.17	4000	88.6	F	F
4.30-5.30 PM	AADT * 1	85	21.00	9.35	9.70	10.06	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	23.10	10.29	10.67	11.06	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	25.20	11.22	11.64	12.07	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	27.30	12.16	12.61	13.07	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	29.40	13.09	13.58	14.08	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	31.50	14.03	14.55	15.08	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	33.60	14.96	15.52	16.09	1461	2.8	A	A

4.30-5.30 PM	AADT * 1	85	35.70	15.90	16.49	17.09	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	37.80	16.83	17.46	18.10	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	39.90	17.77	18.43	19.10	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	42.00	18.70	19.40	20.11	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	44.10	19.64	20.37	21.12	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	46.20	20.57	21.34	22.12	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	48.30	21.51	22.31	23.13	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	50.40	22.44	23.28	24.13	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	52.50	23.38	24.25	25.14	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	54.60	24.31	25.22	26.14	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	56.70	25.25	26.19	27.15	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	58.80	26.18	27.16	28.15	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	60.90	27.12	28.13	29.16	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	63.00	28.05	29.10	30.17	1461	2.7	A	A
4.30-5.30 PM	AADT * 1.37	85	21.00	9.35	9.70	10.06	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.37	85	23.10	10.29	10.67	11.06	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.37	85	25.20	11.22	11.64	12.07	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.37	85	27.30	12.16	12.61	13.07	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.37	85	29.40	13.09	13.58	14.08	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.37	85	31.50	14.03	14.55	15.08	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.37	85	33.60	14.96	15.52	16.09	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	35.70	15.90	16.49	17.09	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	37.80	16.83	17.46	18.10	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	39.90	17.77	18.43	19.10	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	42.00	18.70	19.40	20.11	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	44.10	19.64	20.37	21.12	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	46.20	20.57	21.34	22.12	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	48.30	21.51	22.31	23.13	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	50.40	22.44	23.28	24.13	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	52.50	23.38	24.25	25.14	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	54.60	24.31	25.22	26.14	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	56.70	25.25	26.19	27.15	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	58.80	26.18	27.16	28.15	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	60.90	27.12	28.13	29.16	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	63.00	28.05	29.10	30.17	2000	3.4	A	A
4.30-5.30 PM	AADT * 2.053	85	21.00	9.35	9.70	10.06	3000	7.5	A	A
4.30-5.30 PM	AADT * 2.053	85	23.10	10.29	10.67	11.06	3000	7.4	A	A
4.30-5.30 PM	AADT * 2.053	85	25.20	11.22	11.64	12.07	3000	7.3	A	A
4.30-5.30 PM	AADT * 2.053	85	27.30	12.16	12.61	13.07	3000	7.3	A	A
4.30-5.30 PM	AADT * 2.053	85	29.40	13.09	13.58	14.08	3000	7.2	A	A
4.30-5.30 PM	AADT * 2.053	85	31.50	14.03	14.55	15.08	3000	7.1	A	A
4.30-5.30 PM	AADT * 2.053	85	33.60	14.96	15.52	16.09	3000	7.1	A	A
4.30-5.30 PM	AADT * 2.053	85	35.70	15.90	16.49	17.09	3000	7.1	A	A
4.30-5.30 PM	AADT * 2.053	85	37.80	16.83	17.46	18.10	3000	7	A	A
4.30-5.30 PM	AADT * 2.053	85	39.90	17.77	18.43	19.10	3000	7	A	A
4.30-5.30 PM	AADT * 2.053	85	42.00	18.70	19.40	20.11	3000	7	A	A
4.30-5.30 PM	AADT * 2.053	85	44.10	19.64	20.37	21.12	3000	6.9	A	A
4.30-5.30 PM	AADT * 2.053	85	46.20	20.57	21.34	22.12	3000	6.9	A	A

4.30-5.30 PM	AADT * 2.053	85	48.30	21.51	22.31	23.13	3000	6.9	A	A
4.30-5.30 PM	AADT * 2.053	85	50.40	22.44	23.28	24.13	3000	6.9	A	A
4.30-5.30 PM	AADT * 2.053	85	52.50	23.38	24.25	25.14	3000	6.8	A	A
4.30-5.30 PM	AADT * 2.053	85	54.60	24.31	25.22	26.14	3000	6.8	A	A
4.30-5.30 PM	AADT * 2.053	85	56.70	25.25	26.19	27.15	3000	6.8	A	A
4.30-5.30 PM	AADT * 2.053	85	58.80	26.18	27.16	28.15	3000	6.8	A	A
4.30-5.30 PM	AADT * 2.053	85	60.90	27.12	28.13	29.16	3000	6.8	A	A
4.30-5.30 PM	AADT * 2.053	85	63.00	28.05	29.10	30.17	3000	6.8	A	A
4.30-5.30 PM	AADT * 2.738	85	21.00	9.35	9.70	10.06	4000	95.5	F	F
4.30-5.30 PM	AADT * 2.738	85	23.10	10.29	10.67	11.06	4000	93.5	F	F
4.30-5.30 PM	AADT * 2.738	85	25.20	11.22	11.64	12.07	4000	91.7	F	F
4.30-5.30 PM	AADT * 2.738	85	27.30	12.16	12.61	13.07	4000	90.3	F	F
4.30-5.30 PM	AADT * 2.738	85	29.40	13.09	13.58	14.08	4000	89.1	F	F
4.30-5.30 PM	AADT * 2.738	85	31.50	14.03	14.55	15.08	4000	88	F	F
4.30-5.30 PM	AADT * 2.738	85	33.60	14.96	15.52	16.09	4000	87	F	F
4.30-5.30 PM	AADT * 2.738	85	35.70	15.90	16.49	17.09	4000	85.9	F	F
4.30-5.30 PM	AADT * 2.738	85	37.80	16.83	17.46	18.10	4000	85.5	F	F
4.30-5.30 PM	AADT * 2.738	85	39.90	17.77	18.43	19.10	4000	84.8	F	F
4.30-5.30 PM	AADT * 2.738	85	42.00	18.70	19.40	20.11	4000	84.2	F	F
4.30-5.30 PM	AADT * 2.738	85	44.10	19.64	20.37	21.12	4000	83.7	F	F
4.30-5.30 PM	AADT * 2.738	85	46.20	20.57	21.34	22.12	4000	83.2	F	F
4.30-5.30 PM	AADT * 2.738	85	48.30	21.51	22.31	23.13	4000	82.7	F	F
4.30-5.30 PM	AADT * 2.738	85	50.40	22.44	23.28	24.13	4000	82.3	E	F
4.30-5.30 PM	AADT * 2.738	85	52.50	23.38	24.25	25.14	4000	82	E	F
4.30-5.30 PM	AADT * 2.738	85	54.60	24.31	25.22	26.14	4000	81.6	E	F
4.30-5.30 PM	AADT * 2.738	85	56.70	25.25	26.19	27.15	4000	81.3	E	F
4.30-5.30 PM	AADT * 2.738	85	58.80	26.18	27.16	28.15	4000	81	E	F
4.30-5.30 PM	AADT * 2.738	85	60.90	27.12	28.13	29.16	4000	80.7	E	F
4.30-5.30 PM	AADT * 2.738	85	63.00	28.05	29.10	30.17	4000	80.4	E	F

Entry Radius for Ira-Needle/Trussler/Highview Roundabout

Timeframe	AADT Assumptions	CL	ENTRY RADIUS-IRA NEEDLE SOUTH	ENTRY RADIUS - TRUSSLER	ENTRY RADIUS - IRA NEEDLE NORTH	ENTRY RADIUS-HIGHVIEW	AADT	AVERAGE DELAY	LOS SIG	LOS UNSIG
8.30-9.30 AM	AADT * 1	50	9.15	12.65	11.40	11.15	1205	2.5	A	A
8.30-9.30 AM	AADT * 1	50	10.07	13.92	12.54	12.27	1205	2.5	A	A
8.30-9.30 AM	AADT * 1	50	10.98	15.18	13.68	13.38	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	11.90	16.45	14.82	14.50	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	12.81	17.71	15.96	15.61	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	13.73	18.98	17.10	16.73	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	14.64	20.24	18.24	17.84	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	15.56	21.51	19.38	18.96	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	16.47	22.77	20.52	20.07	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	17.39	24.04	21.66	21.19	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	18.30	25.30	22.80	22.30	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	19.22	26.57	23.94	23.42	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	20.13	27.83	25.08	24.53	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	21.05	29.10	26.22	25.65	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	21.96	30.36	27.36	26.76	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	22.88	31.63	28.50	27.88	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	23.79	32.89	29.64	28.99	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	24.71	34.16	30.78	30.11	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	25.62	35.42	31.92	31.22	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	26.54	36.69	33.06	32.34	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	27.45	37.95	34.20	33.45	1205	2.3	A	A
8.30-9.30 AM	AADT * 1.66	50	9.15	12.65	11.40	11.15	2000	3.4	A	A
8.30-9.30 AM	AADT * 1.66	50	10.07	13.92	12.54	12.27	2000	3.4	A	A
8.30-9.30 AM	AADT * 1.66	50	10.98	15.18	13.68	13.38	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.66	50	11.90	16.45	14.82	14.50	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.66	50	12.81	17.71	15.96	15.61	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.66	50	13.73	18.98	17.10	16.73	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.66	50	14.64	20.24	18.24	17.84	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	15.56	21.51	19.38	18.96	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	16.47	22.77	20.52	20.07	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	17.39	24.04	21.66	21.19	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	18.30	25.30	22.80	22.30	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	19.22	26.57	23.94	23.42	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	20.13	27.83	25.08	24.53	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	21.05	29.10	26.22	25.65	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	21.96	30.36	27.36	26.76	2000	3.2	A	A

8.30-9.30 AM	AADT * 1.66	50	22.88	31.63	28.50	27.88	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	23.79	32.89	29.64	28.99	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.66	50	24.71	34.16	30.78	30.11	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.66	50	25.62	35.42	31.92	31.22	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.66	50	26.54	36.69	33.06	32.34	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.66	50	27.45	37.95	34.20	33.45	2000	3.1	A	A
8.30-9.30 AM	AADT * 2.49	50	9.15	12.65	11.40	11.15	3000	7.7	A	A
8.30-9.30 AM	AADT * 2.49	50	10.07	13.92	12.54	12.27	3000	7.5	A	A
8.30-9.30 AM	AADT * 2.49	50	10.98	15.18	13.68	13.38	3000	7.3	A	A
8.30-9.30 AM	AADT * 2.49	50	11.90	16.45	14.82	14.50	3000	7.2	A	A
8.30-9.30 AM	AADT * 2.49	50	12.81	17.71	15.96	15.61	3000	7.1	A	A
8.30-9.30 AM	AADT * 2.49	50	13.73	18.98	17.10	16.73	3000	7	A	A
8.30-9.30 AM	AADT * 2.49	50	14.64	20.24	18.24	17.84	3000	6.9	A	A
8.30-9.30 AM	AADT * 2.49	50	15.56	21.51	19.38	18.96	3000	6.8	A	A
8.30-9.30 AM	AADT * 2.49	50	16.47	22.77	20.52	20.07	3000	6.8	A	A
8.30-9.30 AM	AADT * 2.49	50	17.39	24.04	21.66	21.19	3000	6.7	A	A
8.30-9.30 AM	AADT * 2.49	50	18.30	25.30	22.80	22.30	3000	6.7	A	A
8.30-9.30 AM	AADT * 2.49	50	19.22	26.57	23.94	23.42	3000	6.6	A	A
8.30-9.30 AM	AADT * 2.49	50	20.13	27.83	25.08	24.53	3000	6.6	A	A
8.30-9.30 AM	AADT * 2.49	50	21.05	29.10	26.22	25.65	3000	6.6	A	A
8.30-9.30 AM	AADT * 2.49	50	21.96	30.36	27.36	26.76	3000	6.5	A	A
8.30-9.30 AM	AADT * 2.49	50	22.88	31.63	28.50	27.88	3000	6.5	A	A
8.30-9.30 AM	AADT * 2.49	50	23.79	32.89	29.64	28.99	3000	6.5	A	A
8.30-9.30 AM	AADT * 2.49	50	24.71	34.16	30.78	30.11	3000	6.5	A	A
8.30-9.30 AM	AADT * 2.49	50	25.62	35.42	31.92	31.22	3000	6.4	A	A
8.30-9.30 AM	AADT * 2.49	50	26.54	36.69	33.06	32.34	3000	6.4	A	A
8.30-9.30 AM	AADT * 2.49	50	27.45	37.95	34.20	33.45	3000	6.4	A	A
8.30-9.30 AM	AADT * 3.32	50	9.15	12.65	11.40	11.15	4000	100.1	F	F
8.30-9.30 AM	AADT * 3.32	50	10.07	13.92	12.54	12.27	4000	98	F	F
8.30-9.30 AM	AADT * 3.32	50	10.98	15.18	13.68	13.38	4000	96.3	F	F
8.30-9.30 AM	AADT * 3.32	50	11.90	16.45	14.82	14.50	4000	94.5	F	F
8.30-9.30 AM	AADT * 3.32	50	12.81	17.71	15.96	15.61	4000	93.6	F	F
8.30-9.30 AM	AADT * 3.32	50	13.73	18.98	17.10	16.73	4000	92.5	F	F
8.30-9.30 AM	AADT * 3.32	50	14.64	20.24	18.24	17.84	4000	91.6	F	F
8.30-9.30 AM	AADT * 3.32	50	15.56	21.51	19.38	18.96	4000	90.8	F	F
8.30-9.30 AM	AADT * 3.32	50	16.47	22.77	20.52	20.07	4000	90.1	F	F
8.30-9.30 AM	AADT * 3.32	50	17.39	24.04	21.66	21.19	4000	89.5	F	F
8.30-9.30 AM	AADT * 3.32	50	18.30	25.30	22.80	22.30	4000	88.9	F	F
8.30-9.30 AM	AADT * 3.32	50	19.22	26.57	23.94	23.42	4000	88.4	F	F

8.30-9.30 AM	AADT * 3.32	50	20.13	27.83	25.08	24.53	4000	88	F	F
8.30-9.30 AM	AADT * 3.32	50	21.05	29.10	26.22	25.65	4000	87.5	F	F
8.30-9.30 AM	AADT * 3.32	50	21.96	30.36	27.36	26.76	4000	87.2	F	F
8.30-9.30 AM	AADT * 3.32	50	22.88	31.63	28.50	27.88	4000	86.8	F	F
8.30-9.30 AM	AADT * 3.32	50	23.79	32.89	29.64	28.99	4000	86.5	F	F
8.30-9.30 AM	AADT * 3.32	50	24.71	34.16	30.78	30.11	4000	86.2	F	F
8.30-9.30 AM	AADT * 3.32	50	25.62	35.42	31.92	31.22	4000	85.9	F	F
8.30-9.30 AM	AADT * 3.32	50	26.54	36.69	33.06	32.34	4000	85.7	F	F
8.30-9.30 AM	AADT * 3.32	50	27.45	37.95	34.20	33.45	4000	85.5	F	F
12.30-1.30 PM	AADT * 1	50	9.15	12.65	11.40	11.15	575	2	A	A
12.30-1.30 PM	AADT * 1	50	10.07	13.92	12.54	12.27	575	2	A	A
12.30-1.30 PM	AADT * 1	50	10.98	15.18	13.68	13.38	575	2	A	A
12.30-1.30 PM	AADT * 1	50	11.90	16.45	14.82	14.50	575	2	A	A
12.30-1.30 PM	AADT * 1	50	12.81	17.71	15.96	15.61	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	13.73	18.98	17.10	16.73	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	14.64	20.24	18.24	17.84	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	15.56	21.51	19.38	18.96	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	16.47	22.77	20.52	20.07	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	17.39	24.04	21.66	21.19	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	18.30	25.30	22.80	22.30	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	19.22	26.57	23.94	23.42	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	20.13	27.83	25.08	24.53	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	21.05	29.10	26.22	25.65	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	21.96	30.36	27.36	26.76	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	22.88	31.63	28.50	27.88	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	23.79	32.89	29.64	28.99	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	24.71	34.16	30.78	30.11	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	25.62	35.42	31.92	31.22	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	26.54	36.69	33.06	32.34	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	27.45	37.95	34.20	33.45	575	1.9	A	A
12.30-1.30 PM	AADT * 3.478	50	9.15	12.65	11.40	11.15	2000	3.1	A	A
12.30-1.30 PM	AADT * 3.478	50	10.07	13.92	12.54	12.27	2000	3.1	A	A
12.30-1.30 PM	AADT * 3.478	50	10.98	15.18	13.68	13.38	2000	3.1	A	A
12.30-1.30 PM	AADT * 3.478	50	11.90	16.45	14.82	14.50	2000	3.1	A	A
12.30-1.30 PM	AADT * 3.478	50	12.81	17.71	15.96	15.61	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	13.73	18.98	17.10	16.73	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	14.64	20.24	18.24	17.84	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	15.56	21.51	19.38	18.96	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	16.47	22.77	20.52	20.07	2000	3	A	A

12.30-1.30 PM	AADT * 3.478	50	17.39	24.04	21.66	21.19	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	18.30	25.30	22.80	22.30	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	19.22	26.57	23.94	23.42	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	20.13	27.83	25.08	24.53	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	21.05	29.10	26.22	25.65	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	21.96	30.36	27.36	26.76	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	22.88	31.63	28.50	27.88	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	23.79	32.89	29.64	28.99	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	24.71	34.16	30.78	30.11	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	25.62	35.42	31.92	31.22	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	26.54	36.69	33.06	32.34	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	27.45	37.95	34.20	33.45	2000	2.9	A	A
12.30-1.30 PM	AADT * 5.217	50	9.15	12.65	11.40	11.15	3000	5.5	A	A
12.30-1.30 PM	AADT * 5.217	50	10.07	13.92	12.54	12.27	3000	5.4	A	A
12.30-1.30 PM	AADT * 5.217	50	10.98	15.18	13.68	13.38	3000	5.3	A	A
12.30-1.30 PM	AADT * 5.217	50	11.90	16.45	14.82	14.50	3000	5.2	A	A
12.30-1.30 PM	AADT * 5.217	50	12.81	17.71	15.96	15.61	3000	5.2	A	A
12.30-1.30 PM	AADT * 5.217	50	13.73	18.98	17.10	16.73	3000	5.1	A	A
12.30-1.30 PM	AADT * 5.217	50	14.64	20.24	18.24	17.84	3000	5.1	A	A
12.30-1.30 PM	AADT * 5.217	50	15.56	21.51	19.38	18.96	3000	5	A	A
12.30-1.30 PM	AADT * 5.217	50	16.47	22.77	20.52	20.07	3000	5	A	A
12.30-1.30 PM	AADT * 5.217	50	17.39	24.04	21.66	21.19	3000	5	A	A
12.30-1.30 PM	AADT * 5.217	50	18.30	25.30	22.80	22.30	3000	5	A	A
12.30-1.30 PM	AADT * 5.217	50	19.22	26.57	23.94	23.42	3000	4.9	A	A
12.30-1.30 PM	AADT * 5.217	50	20.13	27.83	25.08	24.53	3000	4.9	A	A
12.30-1.30 PM	AADT * 5.217	50	21.05	29.10	26.22	25.65	3000	4.9	A	A
12.30-1.30 PM	AADT * 5.217	50	21.96	30.36	27.36	26.76	3000	4.9	A	A
12.30-1.30 PM	AADT * 5.217	50	22.88	31.63	28.50	27.88	3000	4.9	A	A
12.30-1.30 PM	AADT * 5.217	50	23.79	32.89	29.64	28.99	3000	4.8	A	A
12.30-1.30 PM	AADT * 5.217	50	24.71	34.16	30.78	30.11	3000	4.8	A	A
12.30-1.30 PM	AADT * 5.217	50	25.62	35.42	31.92	31.22	3000	4.8	A	A
12.30-1.30 PM	AADT * 5.217	50	26.54	36.69	33.06	32.34	3000	4.8	A	A
12.30-1.30 PM	AADT * 5.217	50	27.45	37.95	34.20	33.45	3000	4.8	A	A
12.30-1.30 PM	AADT * 6.956	50	9.15	12.65	11.40	11.15	4000	35.3	C	D
12.30-1.30 PM	AADT * 6.956	50	10.07	13.92	12.54	12.27	4000	33.3	C	D
12.30-1.30 PM	AADT * 6.956	50	10.98	15.18	13.68	13.38	4000	31.7	C	D
12.30-1.30 PM	AADT * 6.956	50	11.90	16.45	14.82	14.50	4000	30.4	C	D
12.30-1.30 PM	AADT * 6.956	50	12.81	17.71	15.96	15.61	4000	29.3	C	D
12.30-1.30 PM	AADT * 6.956	50	13.73	18.98	17.10	16.73	4000	28.6	C	D

12.30-1.30 PM	AADT *6.956	50	14.64	20.24	18.24	17.84	4000	27.9	C	D
12.30-1.30 PM	AADT *6.956	50	15.56	21.51	19.38	18.96	4000	27.4	C	D
12.30-1.30 PM	AADT *6.956	50	16.47	22.77	20.52	20.07	4000	27	C	D
12.30-1.30 PM	AADT *6.956	50	17.39	24.04	21.66	21.19	4000	26.6	C	D
12.30-1.30 PM	AADT *6.956	50	18.30	25.30	22.80	22.30	4000	26.2	C	D
12.30-1.30 PM	AADT *6.956	50	19.22	26.57	23.94	23.42	4000	25.9	C	D
12.30-1.30 PM	AADT *6.956	50	20.13	27.83	25.08	24.53	4000	25.6	C	D
12.30-1.30 PM	AADT *6.956	50	21.05	29.10	26.22	25.65	4000	25.4	C	D
12.30-1.30 PM	AADT *6.956	50	21.96	30.36	27.36	26.76	4000	25.2	C	D
12.30-1.30 PM	AADT *6.956	50	22.88	31.63	28.50	27.88	4000	25	C	C
12.30-1.30 PM	AADT *6.956	50	23.79	32.89	29.64	28.99	4000	24.8	C	C
12.30-1.30 PM	AADT *6.956	50	24.71	34.16	30.78	30.11	4000	24.6	C	C
12.30-1.30 PM	AADT *6.956	50	25.62	35.42	31.92	31.22	4000	24.4	C	C
12.30-1.30 PM	AADT *6.956	50	26.54	36.69	33.06	32.34	4000	24.3	C	C
12.30-1.30 PM	AADT *6.956	50	27.45	37.95	34.20	33.45	4000	24.2	C	C
4.30-5.30 PM	AADT * 1	50	9.15	12.65	11.40	11.15	1461	2.5	A	A
4.30-5.30 PM	AADT * 1	50	10.07	13.92	12.54	12.27	1461	2.5	A	A
4.30-5.30 PM	AADT * 1	50	10.98	15.18	13.68	13.38	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	11.90	16.45	14.82	14.50	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	12.81	17.71	15.96	15.61	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	13.73	18.98	17.10	16.73	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	14.64	20.24	18.24	17.84	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	15.56	21.51	19.38	18.96	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	16.47	22.77	20.52	20.07	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	17.39	24.04	21.66	21.19	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	18.30	25.30	22.80	22.30	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	19.22	26.57	23.94	23.42	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	20.13	27.83	25.08	24.53	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	21.05	29.10	26.22	25.65	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	21.96	30.36	27.36	26.76	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	22.88	31.63	28.50	27.88	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	23.79	32.89	29.64	28.99	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	24.71	34.16	30.78	30.11	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	25.62	35.42	31.92	31.22	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	26.54	36.69	33.06	32.34	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	27.45	37.95	34.20	33.45	1461	2.3	A	A
4.30-5.30 PM	AADT * 1.37	50	9.15	12.65	11.40	11.15	2000	3	A	A
4.30-5.30 PM	AADT * 1.37	50	10.07	13.92	12.54	12.27	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.37	50	10.98	15.18	13.68	13.38	2000	2.9	A	A

4.30-5.30 PM	AADT * 1.37	50	11.90	16.45	14.82	14.50	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.37	50	12.81	17.71	15.96	15.61	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.37	50	13.73	18.98	17.10	16.73	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	14.64	20.24	18.24	17.84	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	15.56	21.51	19.38	18.96	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	16.47	22.77	20.52	20.07	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	17.39	24.04	21.66	21.19	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	18.30	25.30	22.80	22.30	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	19.22	26.57	23.94	23.42	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	20.13	27.83	25.08	24.53	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	21.05	29.10	26.22	25.65	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	21.96	30.36	27.36	26.76	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.37	50	22.88	31.63	28.50	27.88	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.37	50	23.79	32.89	29.64	28.99	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.37	50	24.71	34.16	30.78	30.11	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.37	50	25.62	35.42	31.92	31.22	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.37	50	26.54	36.69	33.06	32.34	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.37	50	27.45	37.95	34.20	33.45	2000	2.7	A	A
4.30-5.30 PM	AADT * 2.053	50	9.15	12.65	11.40	11.15	3000	5.4	A	A
4.30-5.30 PM	AADT * 2.053	50	10.07	13.92	12.54	12.27	3000	5.3	A	A
4.30-5.30 PM	AADT * 2.053	50	10.98	15.18	13.68	13.38	3000	5.1	A	A
4.30-5.30 PM	AADT * 2.053	50	11.90	16.45	14.82	14.50	3000	5.1	A	A
4.30-5.30 PM	AADT * 2.053	50	12.81	17.71	15.96	15.61	3000	5	A	A
4.30-5.30 PM	AADT * 2.053	50	13.73	18.98	17.10	16.73	3000	4.9	A	A
4.30-5.30 PM	AADT * 2.053	50	14.64	20.24	18.24	17.84	3000	4.9	A	A
4.30-5.30 PM	AADT * 2.053	50	15.56	21.51	19.38	18.96	3000	4.8	A	A
4.30-5.30 PM	AADT * 2.053	50	16.47	22.77	20.52	20.07	3000	4.8	A	A
4.30-5.30 PM	AADT * 2.053	50	17.39	24.04	21.66	21.19	3000	4.8	A	A
4.30-5.30 PM	AADT * 2.053	50	18.30	25.30	22.80	22.30	3000	4.7	A	A
4.30-5.30 PM	AADT * 2.053	50	19.22	26.57	23.94	23.42	3000	4.7	A	A
4.30-5.30 PM	AADT * 2.053	50	20.13	27.83	25.08	24.53	3000	4.7	A	A
4.30-5.30 PM	AADT * 2.053	50	21.05	29.10	26.22	25.65	3000	4.7	A	A
4.30-5.30 PM	AADT * 2.053	50	21.96	30.36	27.36	26.76	3000	4.6	A	A
4.30-5.30 PM	AADT * 2.053	50	22.88	31.63	28.50	27.88	3000	4.6	A	A
4.30-5.30 PM	AADT * 2.053	50	23.79	32.89	29.64	28.99	3000	4.6	A	A
4.30-5.30 PM	AADT * 2.053	50	24.71	34.16	30.78	30.11	3000	4.6	A	A
4.30-5.30 PM	AADT * 2.053	50	25.62	35.42	31.92	31.22	3000	4.6	A	A
4.30-5.30 PM	AADT * 2.053	50	26.54	36.69	33.06	32.34	3000	4.6	A	A
4.30-5.30 PM	AADT * 2.053	50	27.45	37.95	34.20	33.45	3000	4.6	A	A

4.30-5.30 PM	AADT * 2.738	50	9.15	12.65	11.40	11.15	4000	50.2	D	F
4.30-5.30 PM	AADT * 2.738	50	10.07	13.92	12.54	12.27	4000	46.2	D	E
4.30-5.30 PM	AADT * 2.738	50	10.98	15.18	13.68	13.38	4000	42.8	D	E
4.30-5.30 PM	AADT * 2.738	50	11.90	16.45	14.82	14.50	4000	40.1	D	E
4.30-5.30 PM	AADT * 2.738	50	12.81	17.71	15.96	15.61	4000	37.7	D	E
4.30-5.30 PM	AADT * 2.738	50	13.73	18.98	17.10	16.73	4000	35.7	D	E
4.30-5.30 PM	AADT * 2.738	50	14.64	20.24	18.24	17.84	4000	34.4	C	D
4.30-5.30 PM	AADT * 2.738	50	15.56	21.51	19.38	18.96	4000	33.3	C	D
4.30-5.30 PM	AADT * 2.738	50	16.47	22.77	20.52	20.07	4000	32.4	C	D
4.30-5.30 PM	AADT * 2.738	50	17.39	24.04	21.66	21.19	4000	31.6	C	D
4.30-5.30 PM	AADT * 2.738	50	18.30	25.30	22.80	22.30	4000	30.9	C	D
4.30-5.30 PM	AADT * 2.738	50	19.22	26.57	23.94	23.42	4000	30.2	C	D
4.30-5.30 PM	AADT * 2.738	50	20.13	27.83	25.08	24.53	4000	29.7	C	D
4.30-5.30 PM	AADT * 2.738	50	21.05	29.10	26.22	25.65	4000	29.1	C	D
4.30-5.30 PM	AADT * 2.738	50	21.96	30.36	27.36	26.76	4000	28.7	C	D
4.30-5.30 PM	AADT * 2.738	50	22.88	31.63	28.50	27.88	4000	28.2	C	D
4.30-5.30 PM	AADT * 2.738	50	23.79	32.89	29.64	28.99	4000	27.9	C	D
4.30-5.30 PM	AADT * 2.738	50	24.71	34.16	30.78	30.11	4000	27.5	C	D
4.30-5.30 PM	AADT * 2.738	50	25.62	35.42	31.92	31.22	4000	27.2	C	D
4.30-5.30 PM	AADT * 2.738	50	26.54	36.69	33.06	32.34	4000	26.9	C	D
4.30-5.30 PM	AADT * 2.738	50	27.45	37.95	34.20	33.45	4000	26.6	C	D
8.30-9.30 AM	AADT * 1	85	9.15	12.65	11.40	11.15	1205	3	A	A
8.30-9.30 AM	AADT * 1	85	10.07	13.92	12.54	12.27	1205	2.9	A	A
8.30-9.30 AM	AADT * 1	85	10.98	15.18	13.68	13.38	1205	2.9	A	A
8.30-9.30 AM	AADT * 1	85	11.90	16.45	14.82	14.50	1205	2.9	A	A
8.30-9.30 AM	AADT * 1	85	12.81	17.71	15.96	15.61	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	13.73	18.98	17.10	16.73	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	14.64	20.24	18.24	17.84	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	15.56	21.51	19.38	18.96	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	16.47	22.77	20.52	20.07	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	17.39	24.04	21.66	21.19	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	18.30	25.30	22.80	22.30	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	19.22	26.57	23.94	23.42	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	20.13	27.83	25.08	24.53	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	21.05	29.10	26.22	25.65	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	21.96	30.36	27.36	26.76	1205	2.7	A	A
8.30-9.30 AM	AADT * 1	85	22.88	31.63	28.50	27.88	1205	2.7	A	A
8.30-9.30 AM	AADT * 1	85	23.79	32.89	29.64	28.99	1205	2.7	A	A
8.30-9.30 AM	AADT * 1	85	24.71	34.16	30.78	30.11	1205	2.7	A	A

8.30-9.30 AM	AADT * 1	85	25.62	35.42	31.92	31.22	1205	2.7	A	A
8.30-9.30 AM	AADT * 1	85	26.54	36.69	33.06	32.34	1205	2.7	A	A
8.30-9.30 AM	AADT * 1	85	27.45	37.95	34.20	33.45	1205	2.7	A	A
8.30-9.30 AM	AADT * 1.66	85	9.15	12.65	11.40	11.15	2000	4.5	A	A
8.30-9.30 AM	AADT * 1.66	85	10.07	13.92	12.54	12.27	2000	4.4	A	A
8.30-9.30 AM	AADT * 1.66	85	10.98	15.18	13.68	13.38	2000	4.3	A	A
8.30-9.30 AM	AADT * 1.66	85	11.90	16.45	14.82	14.50	2000	4.3	A	A
8.30-9.30 AM	AADT * 1.66	85	12.81	17.71	15.96	15.61	2000	4.3	A	A
8.30-9.30 AM	AADT * 1.66	85	13.73	18.98	17.10	16.73	2000	4.2	A	A
8.30-9.30 AM	AADT * 1.66	85	14.64	20.24	18.24	17.84	2000	4.2	A	A
8.30-9.30 AM	AADT * 1.66	85	15.56	21.51	19.38	18.96	2000	4.2	A	A
8.30-9.30 AM	AADT * 1.66	85	16.47	22.77	20.52	20.07	2000	4.1	A	A
8.30-9.30 AM	AADT * 1.66	85	17.39	24.04	21.66	21.19	2000	4.1	A	A
8.30-9.30 AM	AADT * 1.66	85	18.30	25.30	22.80	22.30	2000	4.1	A	A
8.30-9.30 AM	AADT * 1.66	85	19.22	26.57	23.94	23.42	2000	4.1	A	A
8.30-9.30 AM	AADT * 1.66	85	20.13	27.83	25.08	24.53	2000	4.1	A	A
8.30-9.30 AM	AADT * 1.66	85	21.05	29.10	26.22	25.65	2000	4.1	A	A
8.30-9.30 AM	AADT * 1.66	85	21.96	30.36	27.36	26.76	2000	4	A	A
8.30-9.30 AM	AADT * 1.66	85	22.88	31.63	28.50	27.88	2000	4	A	A
8.30-9.30 AM	AADT * 1.66	85	23.79	32.89	29.64	28.99	2000	4	A	A
8.30-9.30 AM	AADT * 1.66	85	24.71	34.16	30.78	30.11	2000	4	A	A
8.30-9.30 AM	AADT * 1.66	85	25.62	35.42	31.92	31.22	2000	4	A	A
8.30-9.30 AM	AADT * 1.66	85	26.54	36.69	33.06	32.34	2000	4	A	A
8.30-9.30 AM	AADT * 1.66	85	27.45	37.95	34.20	33.45	2000	4	A	A
8.30-9.30 AM	AADT * 2.49	85	9.15	12.65	11.40	11.15	3000	31.9	C	D
8.30-9.30 AM	AADT * 2.49	85	10.07	13.92	12.54	12.27	3000	29.7	C	D
8.30-9.30 AM	AADT * 2.49	85	10.98	15.18	13.68	13.38	3000	28.2	C	D
8.30-9.30 AM	AADT * 2.49	85	11.90	16.45	14.82	14.50	3000	27	C	D
8.30-9.30 AM	AADT * 2.49	85	12.81	17.71	15.96	15.61	3000	26.1	C	D
8.30-9.30 AM	AADT * 2.49	85	13.73	18.98	17.10	16.73	3000	25.4	C	D
8.30-9.30 AM	AADT * 2.49	85	14.64	20.24	18.24	17.84	3000	24.7	C	C
8.30-9.30 AM	AADT * 2.49	85	15.56	21.51	19.38	18.96	3000	24.2	C	C
8.30-9.30 AM	AADT * 2.49	85	16.47	22.77	20.52	20.07	3000	23.7	C	C
8.30-9.30 AM	AADT * 2.49	85	17.39	24.04	21.66	21.19	3000	23.2	C	C
8.30-9.30 AM	AADT * 2.49	85	18.30	25.30	22.80	22.30	3000	22.8	C	C
8.30-9.30 AM	AADT * 2.49	85	19.22	26.57	23.94	23.42	3000	22.5	C	C
8.30-9.30 AM	AADT * 2.49	85	20.13	27.83	25.08	24.53	3000	22.2	C	C
8.30-9.30 AM	AADT * 2.49	85	21.05	29.10	26.22	25.65	3000	21.9	C	C
8.30-9.30 AM	AADT * 2.49	85	21.96	30.36	27.36	26.76	3000	21.7	C	C

8.30-9.30 AM	AADT * 2.49	85	22.88	31.63	28.50	27.88	3000	21.4	C	C
8.30-9.30 AM	AADT * 2.49	85	23.79	32.89	29.64	28.99	3000	21.2	C	C
8.30-9.30 AM	AADT * 2.49	85	24.71	34.16	30.78	30.11	3000	21	C	C
8.30-9.30 AM	AADT * 2.49	85	25.62	35.42	31.92	31.22	3000	20.8	C	C
8.30-9.30 AM	AADT * 2.49	85	26.54	36.69	33.06	32.34	3000	20.7	C	C
8.30-9.30 AM	AADT * 2.49	85	27.45	37.95	34.20	33.45	3000	20.5	C	C
8.30-9.30 AM	AADT * 3.32	85	9.15	12.65	11.40	11.15	4000	215.8	F	F
8.30-9.30 AM	AADT * 3.32	85	10.07	13.92	12.54	12.27	4000	212.5	F	F
8.30-9.30 AM	AADT * 3.32	85	10.98	15.18	13.68	13.38	4000	209.6	F	F
8.30-9.30 AM	AADT * 3.32	85	11.90	16.45	14.82	14.50	4000	207.1	F	F
8.30-9.30 AM	AADT * 3.32	85	12.81	17.71	15.96	15.61	4000	205	F	F
8.30-9.30 AM	AADT * 3.32	85	13.73	18.98	17.10	16.73	4000	203.3	F	F
8.30-9.30 AM	AADT * 3.32	85	14.64	20.24	18.24	17.84	4000	201.7	F	F
8.30-9.30 AM	AADT * 3.32	85	15.56	21.51	19.38	18.96	4000	200.4	F	F
8.30-9.30 AM	AADT * 3.32	85	16.47	22.77	20.52	20.07	4000	199.2	F	F
8.30-9.30 AM	AADT * 3.32	85	17.39	24.04	21.66	21.19	4000	198.2	F	F
8.30-9.30 AM	AADT * 3.32	85	18.30	25.30	22.80	22.30	4000	197.2	F	F
8.30-9.30 AM	AADT * 3.32	85	19.22	26.57	23.94	23.42	4000	196.4	F	F
8.30-9.30 AM	AADT * 3.32	85	20.13	27.83	25.08	24.53	4000	195.6	F	F
8.30-9.30 AM	AADT * 3.32	85	21.05	29.10	26.22	25.65	4000	194.9	F	F
8.30-9.30 AM	AADT * 3.32	85	21.96	30.36	27.36	26.76	4000	194.3	F	F
8.30-9.30 AM	AADT * 3.32	85	22.88	31.63	28.50	27.88	4000	193.7	F	F
8.30-9.30 AM	AADT * 3.32	85	23.79	32.89	29.64	28.99	4000	193.1	F	F
8.30-9.30 AM	AADT * 3.32	85	24.71	34.16	30.78	30.11	4000	192.6	F	F
8.30-9.30 AM	AADT * 3.32	85	25.62	35.42	31.92	31.22	4000	192.2	F	F
8.30-9.30 AM	AADT * 3.32	85	26.54	36.69	33.06	32.34	4000	191.7	F	F
8.30-9.30 AM	AADT * 3.32	85	27.45	37.95	34.20	33.45	4000	191.3	F	F
12.30-1.30 PM	AADT * 1	85	9.15	12.65	11.40	11.15	575	2.3	A	A
12.30-1.30 PM	AADT * 1	85	10.07	13.92	12.54	12.27	575	2.3	A	A
12.30-1.30 PM	AADT * 1	85	10.98	15.18	13.68	13.38	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	11.90	16.45	14.82	14.50	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	12.81	17.71	15.96	15.61	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	13.73	18.98	17.10	16.73	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	14.64	20.24	18.24	17.84	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	15.56	21.51	19.38	18.96	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	16.47	22.77	20.52	20.07	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	17.39	24.04	21.66	21.19	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	18.30	25.30	22.80	22.30	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	19.22	26.57	23.94	23.42	575	2.2	A	A

12.30-1.30 PM	AADT * 1	85	20.13	27.83	25.08	24.53	575	2.1	A	A
12.30-1.30 PM	AADT * 1	85	21.05	29.10	26.22	25.65	575	2.1	A	A
12.30-1.30 PM	AADT * 1	85	21.96	30.36	27.36	26.76	575	2.1	A	A
12.30-1.30 PM	AADT * 1	85	22.88	31.63	28.50	27.88	575	2.1	A	A
12.30-1.30 PM	AADT * 1	85	23.79	32.89	29.64	28.99	575	2.1	A	A
12.30-1.30 PM	AADT * 1	85	24.71	34.16	30.78	30.11	575	2.1	A	A
12.30-1.30 PM	AADT * 1	85	25.62	35.42	31.92	31.22	575	2.1	A	A
12.30-1.30 PM	AADT * 1	85	26.54	36.69	33.06	32.34	575	2.1	A	A
12.30-1.30 PM	AADT * 1	85	27.45	37.95	34.20	33.45	575	2.1	A	A
12.30-1.30 PM	AADT * 3.478	85	9.15	12.65	11.40	11.15	2000	3.9	A	A
12.30-1.30 PM	AADT * 3.478	85	10.07	13.92	12.54	12.27	2000	3.9	A	A
12.30-1.30 PM	AADT * 3.478	85	10.98	15.18	13.68	13.38	2000	3.8	A	A
12.30-1.30 PM	AADT * 3.478	85	11.90	16.45	14.82	14.50	2000	3.8	A	A
12.30-1.30 PM	AADT * 3.478	85	12.81	17.71	15.96	15.61	2000	3.7	A	A
12.30-1.30 PM	AADT * 3.478	85	13.73	18.98	17.10	16.73	2000	3.7	A	A
12.30-1.30 PM	AADT * 3.478	85	14.64	20.24	18.24	17.84	2000	3.7	A	A
12.30-1.30 PM	AADT * 3.478	85	15.56	21.51	19.38	18.96	2000	3.7	A	A
12.30-1.30 PM	AADT * 3.478	85	16.47	22.77	20.52	20.07	2000	3.7	A	A
12.30-1.30 PM	AADT * 3.478	85	17.39	24.04	21.66	21.19	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	18.30	25.30	22.80	22.30	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	19.22	26.57	23.94	23.42	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	20.13	27.83	25.08	24.53	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	21.05	29.10	26.22	25.65	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	21.96	30.36	27.36	26.76	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	22.88	31.63	28.50	27.88	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	23.79	32.89	29.64	28.99	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	24.71	34.16	30.78	30.11	2000	3.5	A	A
12.30-1.30 PM	AADT * 3.478	85	25.62	35.42	31.92	31.22	2000	3.5	A	A
12.30-1.30 PM	AADT * 3.478	85	26.54	36.69	33.06	32.34	2000	3.5	A	A
12.30-1.30 PM	AADT * 3.478	85	27.45	37.95	34.20	33.45	2000	3.5	A	A
12.30-1.30 PM	AADT * 5.217	85	9.15	12.65	11.40	11.15	3000	9.4	A	A
12.30-1.30 PM	AADT * 5.217	85	10.07	13.92	12.54	12.27	3000	9.1	A	A
12.30-1.30 PM	AADT * 5.217	85	10.98	15.18	13.68	13.38	3000	8.8	A	A
12.30-1.30 PM	AADT * 5.217	85	11.90	16.45	14.82	14.50	3000	8.6	A	A
12.30-1.30 PM	AADT * 5.217	85	12.81	17.71	15.96	15.61	3000	8.4	A	A
12.30-1.30 PM	AADT * 5.217	85	13.73	18.98	17.10	16.73	3000	8.3	A	A
12.30-1.30 PM	AADT * 5.217	85	14.64	20.24	18.24	17.84	3000	8.2	A	A
12.30-1.30 PM	AADT * 5.217	85	15.56	21.51	19.38	18.96	3000	8.1	A	A
12.30-1.30 PM	AADT * 5.217	85	16.47	22.77	20.52	20.07	3000	8	A	A

12.30-1.30 PM	AADT * 5.217	85	17.39	24.04	21.66	21.19	3000	7.9	A	A
12.30-1.30 PM	AADT * 5.217	85	18.30	25.30	22.80	22.30	3000	7.8	A	A
12.30-1.30 PM	AADT * 5.217	85	19.22	26.57	23.94	23.42	3000	7.8	A	A
12.30-1.30 PM	AADT * 5.217	85	20.13	27.83	25.08	24.53	3000	7.7	A	A
12.30-1.30 PM	AADT * 5.217	85	21.05	29.10	26.22	25.65	3000	7.7	A	A
12.30-1.30 PM	AADT * 5.217	85	21.96	30.36	27.36	26.76	3000	7.6	A	A
12.30-1.30 PM	AADT * 5.217	85	22.88	31.63	28.50	27.88	3000	7.6	A	A
12.30-1.30 PM	AADT * 5.217	85	23.79	32.89	29.64	28.99	3000	7.6	A	A
12.30-1.30 PM	AADT * 5.217	85	24.71	34.16	30.78	30.11	3000	7.5	A	A
12.30-1.30 PM	AADT * 5.217	85	25.62	35.42	31.92	31.22	3000	7.5	A	A
12.30-1.30 PM	AADT * 5.217	85	26.54	36.69	33.06	32.34	3000	7.5	A	A
12.30-1.30 PM	AADT * 5.217	85	27.45	37.95	34.20	33.45	3000	7.4	A	A
12.30-1.30 PM	AADT *6.956	85	9.15	12.65	11.40	11.15	4000	116.6	F	F
12.30-1.30 PM	AADT *6.956	85	10.07	13.92	12.54	12.27	4000	111.7	F	F
12.30-1.30 PM	AADT *6.956	85	10.98	15.18	13.68	13.38	4000	107.7	F	F
12.30-1.30 PM	AADT *6.956	85	11.90	16.45	14.82	14.50	4000	104.5	F	F
12.30-1.30 PM	AADT *6.956	85	12.81	17.71	15.96	15.61	4000	101.7	F	F
12.30-1.30 PM	AADT *6.956	85	13.73	18.98	17.10	16.73	4000	99.4	F	F
12.30-1.30 PM	AADT *6.956	85	14.64	20.24	18.24	17.84	4000	97.6	F	F
12.30-1.30 PM	AADT *6.956	85	15.56	21.51	19.38	18.96	4000	96	F	F
12.30-1.30 PM	AADT *6.956	85	16.47	22.77	20.52	20.07	4000	94.7	F	F
12.30-1.30 PM	AADT *6.956	85	17.39	24.04	21.66	21.19	4000	93.6	F	F
12.30-1.30 PM	AADT *6.956	85	18.30	25.30	22.80	22.30	4000	92.6	F	F
12.30-1.30 PM	AADT *6.956	85	19.22	26.57	23.94	23.42	4000	91.6	F	F
12.30-1.30 PM	AADT *6.956	85	20.13	27.83	25.08	24.53	4000	90.8	F	F
12.30-1.30 PM	AADT *6.956	85	21.05	29.10	26.22	25.65	4000	90.1	F	F
12.30-1.30 PM	AADT *6.956	85	21.96	30.36	27.36	26.76	4000	89.4	F	F
12.30-1.30 PM	AADT *6.956	85	22.88	31.63	28.50	27.88	4000	88.8	F	F
12.30-1.30 PM	AADT *6.956	85	23.79	32.89	29.64	28.99	4000	88.2	F	F
12.30-1.30 PM	AADT *6.956	85	24.71	34.16	30.78	30.11	4000	87.7	F	F
12.30-1.30 PM	AADT *6.956	85	25.62	35.42	31.92	31.22	4000	87.3	F	F
12.30-1.30 PM	AADT *6.956	85	26.54	36.69	33.06	32.34	4000	86.8	F	F
12.30-1.30 PM	AADT *6.956	85	27.45	37.95	34.20	33.45	4000	86.4	F	F
4.30-5.30 PM	AADT * 1	85	9.15	12.65	11.40	11.15	1461	2.9	A	A
4.30-5.30 PM	AADT * 1	85	10.07	13.92	12.54	12.27	1461	2.9	A	A
4.30-5.30 PM	AADT * 1	85	10.98	15.18	13.68	13.38	1461	2.9	A	A
4.30-5.30 PM	AADT * 1	85	11.90	16.45	14.82	14.50	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	12.81	17.71	15.96	15.61	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	13.73	18.98	17.10	16.73	1461	2.8	A	A

4.30-5.30 PM	AADT * 1	85	14.64	20.24	18.24	17.84	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	15.56	21.51	19.38	18.96	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	16.47	22.77	20.52	20.07	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	17.39	24.04	21.66	21.19	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	18.30	25.30	22.80	22.30	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	19.22	26.57	23.94	23.42	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	20.13	27.83	25.08	24.53	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	21.05	29.10	26.22	25.65	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	21.96	30.36	27.36	26.76	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	22.88	31.63	28.50	27.88	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	23.79	32.89	29.64	28.99	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	24.71	34.16	30.78	30.11	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	25.62	35.42	31.92	31.22	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	26.54	36.69	33.06	32.34	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	27.45	37.95	34.20	33.45	1461	2.7	A	A
4.30-5.30 PM	AADT * 1.37	85	9.15	12.65	11.40	11.15	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.37	85	10.07	13.92	12.54	12.27	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.37	85	10.98	15.18	13.68	13.38	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.37	85	11.90	16.45	14.82	14.50	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.37	85	12.81	17.71	15.96	15.61	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.37	85	13.73	18.98	17.10	16.73	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	14.64	20.24	18.24	17.84	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	15.56	21.51	19.38	18.96	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	16.47	22.77	20.52	20.07	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	17.39	24.04	21.66	21.19	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	18.30	25.30	22.80	22.30	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	19.22	26.57	23.94	23.42	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.37	85	20.13	27.83	25.08	24.53	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.37	85	21.05	29.10	26.22	25.65	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.37	85	21.96	30.36	27.36	26.76	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.37	85	22.88	31.63	28.50	27.88	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.37	85	23.79	32.89	29.64	28.99	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.37	85	24.71	34.16	30.78	30.11	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.37	85	25.62	35.42	31.92	31.22	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.37	85	26.54	36.69	33.06	32.34	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.37	85	27.45	37.95	34.20	33.45	2000	3.3	A	A
4.30-5.30 PM	AADT * 2.053	85	9.15	12.65	11.40	11.15	3000	8.5	A	A
4.30-5.30 PM	AADT * 2.053	85	10.07	13.92	12.54	12.27	3000	8.2	A	A
4.30-5.30 PM	AADT * 2.053	85	10.98	15.18	13.68	13.38	3000	7.9	A	A

4.30-5.30 PM	AADT * 2.053	85	11.90	16.45	14.82	14.50	3000	7.7	A	A
4.30-5.30 PM	AADT * 2.053	85	12.81	17.71	15.96	15.61	3000	7.5	A	A
4.30-5.30 PM	AADT * 2.053	85	13.73	18.98	17.10	16.73	3000	7.4	A	A
4.30-5.30 PM	AADT * 2.053	85	14.64	20.24	18.24	17.84	3000	7.3	A	A
4.30-5.30 PM	AADT * 2.053	85	15.56	21.51	19.38	18.96	3000	7.2	A	A
4.30-5.30 PM	AADT * 2.053	85	16.47	22.77	20.52	20.07	3000	7.1	A	A
4.30-5.30 PM	AADT * 2.053	85	17.39	24.04	21.66	21.19	3000	7	A	A
4.30-5.30 PM	AADT * 2.053	85	18.30	25.30	22.80	22.30	3000	7	A	A
4.30-5.30 PM	AADT * 2.053	85	19.22	26.57	23.94	23.42	3000	6.9	A	A
4.30-5.30 PM	AADT * 2.053	85	20.13	27.83	25.08	24.53	3000	6.8	A	A
4.30-5.30 PM	AADT * 2.053	85	21.05	29.10	26.22	25.65	3000	6.8	A	A
4.30-5.30 PM	AADT * 2.053	85	21.96	30.36	27.36	26.76	3000	6.8	A	A
4.30-5.30 PM	AADT * 2.053	85	22.88	31.63	28.50	27.88	3000	6.7	A	A
4.30-5.30 PM	AADT * 2.053	85	23.79	32.89	29.64	28.99	3000	6.7	A	A
4.30-5.30 PM	AADT * 2.053	85	24.71	34.16	30.78	30.11	3000	6.6	A	A
4.30-5.30 PM	AADT * 2.053	85	25.62	35.42	31.92	31.22	3000	6.6	A	A
4.30-5.30 PM	AADT * 2.053	85	26.54	36.69	33.06	32.34	3000	6.6	A	A
4.30-5.30 PM	AADT * 2.053	85	27.45	37.95	34.20	33.45	3000	6.6	A	A
4.30-5.30 PM	AADT * 2.738	85	9.15	12.65	11.40	11.15	4000	112.7	F	F
4.30-5.30 PM	AADT * 2.738	85	10.07	13.92	12.54	12.27	4000	107.1	F	F
4.30-5.30 PM	AADT * 2.738	85	10.98	15.18	13.68	13.38	4000	102.7	F	F
4.30-5.30 PM	AADT * 2.738	85	11.90	16.45	14.82	14.50	4000	99	F	F
4.30-5.30 PM	AADT * 2.738	85	12.81	17.71	15.96	15.61	4000	95.9	F	F
4.30-5.30 PM	AADT * 2.738	85	13.73	18.98	17.10	16.73	4000	93.2	F	F
4.30-5.30 PM	AADT * 2.738	85	14.64	20.24	18.24	17.84	4000	90.9	F	F
4.30-5.30 PM	AADT * 2.738	85	15.56	21.51	19.38	18.96	4000	88.9	F	F
4.30-5.30 PM	AADT * 2.738	85	16.47	22.77	20.52	20.07	4000	87.2	F	F
4.30-5.30 PM	AADT * 2.738	85	17.39	24.04	21.66	21.19	4000	85.6	F	F
4.30-5.30 PM	AADT * 2.738	85	18.30	25.30	22.80	22.30	4000	84.2	F	F
4.30-5.30 PM	AADT * 2.738	85	19.22	26.57	23.94	23.42	4000	83	F	F
4.30-5.30 PM	AADT * 2.738	85	20.13	27.83	25.08	24.53	4000	81.8	F	F
4.30-5.30 PM	AADT * 2.738	85	21.05	29.10	26.22	25.65	4000	80.8	F	F
4.30-5.30 PM	AADT * 2.738	85	21.96	30.36	27.36	26.76	4000	79.9	E	F
4.30-5.30 PM	AADT * 2.738	85	22.88	31.63	28.50	27.88	4000	79	E	F
4.30-5.30 PM	AADT * 2.738	85	23.79	32.89	29.64	28.99	4000	78.2	E	F
4.30-5.30 PM	AADT * 2.738	85	24.71	34.16	30.78	30.11	4000	77.5	E	F
4.30-5.30 PM	AADT * 2.738	85	25.62	35.42	31.92	31.22	4000	76.8	E	F
4.30-5.30 PM	AADT * 2.738	85	26.54	36.69	33.06	32.34	4000	76.2	E	F
4.30-5.30 PM	AADT * 2.738	85	27.45	37.95	34.20	33.45	4000	75.6	E	F

Entry Angle (PHI) for Ira-Needle/Trussler/Highview Roundabout

Timeframe	AADT Assumptions	CL	PHI ANGLE-IRA NEEDLE SOUTH	PHI ANGLE - TRUSSLER	PHI ANGLE - IRA NEEDLE NORTH	PHI ANGLE-HIGHVIEW	AADT	AVERAGE DELAY	LOS SIG	LOS UNSIG
8.30-9.30 AM	AADT * 1	50	10.41	15.05	12.71	24.26	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	10.99	15.88	13.41	25.60	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	11.57	16.72	14.12	26.95	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	12.15	17.56	14.83	28.30	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	12.73	18.39	15.53	29.65	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	13.31	19.23	16.24	30.99	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	13.88	20.06	16.94	32.34	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	14.46	20.90	17.65	33.69	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	15.04	21.74	18.36	35.04	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	15.62	22.57	19.06	36.38	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	16.20	23.41	19.77	37.73	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	16.78	24.24	20.47	39.08	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	17.36	25.08	21.18	40.43	1205	2.4	A	A
8.30-9.30 AM	AADT * 1.66	50	10.41	15.05	12.71	24.26	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.66	50	10.99	15.88	13.41	25.60	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	11.57	16.72	14.12	26.95	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	12.15	17.56	14.83	28.30	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	12.73	18.39	15.53	29.65	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	13.31	19.23	16.24	30.99	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	13.88	20.06	16.94	32.34	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	14.46	20.90	17.65	33.69	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.66	50	15.04	21.74	18.36	35.04	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.66	50	15.62	22.57	19.06	36.38	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.66	50	16.20	23.41	19.77	37.73	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.66	50	16.78	24.24	20.47	39.08	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.66	50	17.36	25.08	21.18	40.43	2000	3.3	A	A
8.30-9.30 AM	AADT * 2.49	50	10.41	15.05	12.71	24.26	3000	6.4	A	A
8.30-9.30 AM	AADT * 2.49	50	10.99	15.88	13.41	25.60	3000	6.5	A	A
8.30-9.30 AM	AADT * 2.49	50	11.57	16.72	14.12	26.95	3000	6.6	A	A
8.30-9.30 AM	AADT * 2.49	50	12.15	17.56	14.83	28.30	3000	6.6	A	A
8.30-9.30 AM	AADT * 2.49	50	12.73	18.39	15.53	29.65	3000	6.7	A	A
8.30-9.30 AM	AADT * 2.49	50	13.31	19.23	16.24	30.99	3000	6.8	A	A
8.30-9.30 AM	AADT * 2.49	50	13.88	20.06	16.94	32.34	3000	6.9	A	A
8.30-9.30 AM	AADT * 2.49	50	14.46	20.90	17.65	33.69	3000	7	A	A
8.30-9.30 AM	AADT * 2.49	50	15.04	21.74	18.36	35.04	3000	7.1	A	A
8.30-9.30 AM	AADT * 2.49	50	15.62	22.57	19.06	36.38	3000	7.2	A	A
8.30-9.30 AM	AADT * 2.49	50	16.20	23.41	19.77	37.73	3000	7.3	A	A
8.30-9.30 AM	AADT * 2.49	50	16.78	24.24	20.47	39.08	3000	7.4	A	A
8.30-9.30 AM	AADT * 2.49	50	17.36	25.08	21.18	40.43	3000	7.5	A	A
8.30-9.30 AM	AADT * 3.32	50	10.41	15.05	12.71	24.26	4000	84.7	F	F
8.30-9.30 AM	AADT * 3.32	50	10.99	15.88	13.41	25.60	4000	85.7	F	F
8.30-9.30 AM	AADT * 3.32	50	11.57	16.72	14.12	26.95	4000	86.8	F	F
8.30-9.30 AM	AADT * 3.32	50	12.15	17.56	14.83	28.30	4000	87.8	F	F
8.30-9.30 AM	AADT * 3.32	50	12.73	18.39	15.53	29.65	4000	88.9	F	F
8.30-9.30 AM	AADT * 3.32	50	13.31	19.23	16.24	30.99	4000	89.9	F	F

8.30-9.30 AM	AADT * 3.32	50	13.88	20.06	16.94	32.34	4000	91	F	F
8.30-9.30 AM	AADT * 3.32	50	14.46	20.90	17.65	33.69	4000	92.1	F	F
8.30-9.30 AM	AADT * 3.32	50	15.04	21.74	18.36	35.04	4000	93.2	F	F
8.30-9.30 AM	AADT * 3.32	50	15.62	22.57	19.06	36.38	4000	94.2	F	F
8.30-9.30 AM	AADT * 3.32	50	16.20	23.41	19.77	37.73	4000	95.4	F	F
8.30-9.30 AM	AADT * 3.32	50	16.78	24.24	20.47	39.08	4000	96.5	F	F
8.30-9.30 AM	AADT * 3.32	50	17.36	25.08	21.18	40.43	4000	97.7	F	F
12.30-1.30 PM	AADT * 1	50	10.41	15.05	12.71	24.26	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	10.99	15.88	13.41	25.60	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	11.57	16.72	14.12	26.95	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	12.15	17.56	14.83	28.30	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	12.73	18.39	15.53	29.65	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	13.31	19.23	16.24	30.99	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	13.88	20.06	16.94	32.34	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	14.46	20.90	17.65	33.69	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	15.04	21.74	18.36	35.04	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	15.62	22.57	19.06	36.38	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	16.20	23.41	19.77	37.73	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	16.78	24.24	20.47	39.08	575	1.9	A	A
12.30-1.30 PM	AADT * 1	50	17.36	25.08	21.18	40.43	575	1.9	A	A
12.30-1.30 PM	AADT * 3.478	50	10.41	15.05	12.71	24.26	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	10.99	15.88	13.41	25.60	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	11.57	16.72	14.12	26.95	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	12.15	17.56	14.83	28.30	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	12.73	18.39	15.53	29.65	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	13.31	19.23	16.24	30.99	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	13.88	20.06	16.94	32.34	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	14.46	20.90	17.65	33.69	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	15.04	21.74	18.36	35.04	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	15.62	22.57	19.06	36.38	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	16.20	23.41	19.77	37.73	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	16.78	24.24	20.47	39.08	2000	3.1	A	A
12.30-1.30 PM	AADT * 3.478	50	17.36	25.08	21.18	40.43	2000	3.1	A	A
12.30-1.30 PM	AADT * 5.217	50	10.41	15.05	12.71	24.26	3000	4.9	A	A
12.30-1.30 PM	AADT * 5.217	50	10.99	15.88	13.41	25.60	3000	4.9	A	A
12.30-1.30 PM	AADT * 5.217	50	11.57	16.72	14.12	26.95	3000	5	A	A
12.30-1.30 PM	AADT * 5.217	50	12.15	17.56	14.83	28.30	3000	5	A	A
12.30-1.30 PM	AADT * 5.217	50	12.73	18.39	15.53	29.65	3000	5	A	A
12.30-1.30 PM	AADT * 5.217	50	13.31	19.23	16.24	30.99	3000	5.1	A	A
12.30-1.30 PM	AADT * 5.217	50	13.88	20.06	16.94	32.34	3000	5.1	A	A
12.30-1.30 PM	AADT * 5.217	50	14.46	20.90	17.65	33.69	3000	5.1	A	A
12.30-1.30 PM	AADT * 5.217	50	15.04	21.74	18.36	35.04	3000	5.2	A	A
12.30-1.30 PM	AADT * 5.217	50	15.62	22.57	19.06	36.38	3000	5.2	A	A
12.30-1.30 PM	AADT * 5.217	50	16.20	23.41	19.77	37.73	3000	5.2	A	A
12.30-1.30 PM	AADT * 5.217	50	16.78	24.24	20.47	39.08	3000	5.3	A	A
12.30-1.30 PM	AADT * 5.217	50	17.36	25.08	21.18	40.43	3000	5.3	A	A
12.30-1.30 PM	AADT * 6.956	50	10.41	15.05	12.71	24.26	4000	25.4	C	D
12.30-1.30 PM	AADT * 6.956	50	10.99	15.88	13.41	25.60	4000	26	C	D

12.30-1.30 PM	AADT *6.956	50	11.57	16.72	14.12	26.95	4000	26.5	C	D
12.30-1.30 PM	AADT *6.956	50	12.15	17.56	14.83	28.30	4000	27.1	C	D
12.30-1.30 PM	AADT *6.956	50	12.73	18.39	15.53	29.65	4000	27.7	C	D
12.30-1.30 PM	AADT *6.956	50	13.31	19.23	16.24	30.99	4000	28.3	C	D
12.30-1.30 PM	AADT *6.956	50	13.88	20.06	16.94	32.34	4000	29.1	C	D
12.30-1.30 PM	AADT *6.956	50	14.46	20.90	17.65	33.69	4000	29.9	C	D
12.30-1.30 PM	AADT *6.956	50	15.04	21.74	18.36	35.04	4000	30.7	C	D
12.30-1.30 PM	AADT *6.956	50	15.62	22.57	19.06	36.38	4000	31.6	C	D
12.30-1.30 PM	AADT *6.956	50	16.20	23.41	19.77	37.73	4000	32.4	C	D
12.30-1.30 PM	AADT *6.956	50	16.78	24.24	20.47	39.08	4000	33.3	C	D
12.30-1.30 PM	AADT *6.956	50	17.36	25.08	21.18	40.43	4000	34.2	C	D
4.30-5.30 PM	AADT * 1	50	10.41	15.05	12.71	24.26	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	10.99	15.88	13.41	25.60	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	11.57	16.72	14.12	26.95	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	12.15	17.56	14.83	28.30	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	12.73	18.39	15.53	29.65	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	13.31	19.23	16.24	30.99	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	13.88	20.06	16.94	32.34	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	14.46	20.90	17.65	33.69	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	15.04	21.74	18.36	35.04	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	15.62	22.57	19.06	36.38	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	16.20	23.41	19.77	37.73	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	16.78	24.24	20.47	39.08	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	17.36	25.08	21.18	40.43	1461	2.4	A	A
4.30-5.30 PM	AADT * 1.37	50	10.41	15.05	12.71	24.26	2000	4.4	A	A
4.30-5.30 PM	AADT * 1.37	50	10.99	15.88	13.41	25.60	2000	4.4	A	A
4.30-5.30 PM	AADT * 1.37	50	11.57	16.72	14.12	26.95	2000	4.5	A	A
4.30-5.30 PM	AADT * 1.37	50	12.15	17.56	14.83	28.30	2000	4.5	A	A
4.30-5.30 PM	AADT * 1.37	50	12.73	18.39	15.53	29.65	2000	4.6	A	A
4.30-5.30 PM	AADT * 1.37	50	13.31	19.23	16.24	30.99	2000	4.6	A	A
4.30-5.30 PM	AADT * 1.37	50	13.88	20.06	16.94	32.34	2000	4.7	A	A
4.30-5.30 PM	AADT * 1.37	50	14.46	20.90	17.65	33.69	2000	4.8	A	A
4.30-5.30 PM	AADT * 1.37	50	15.04	21.74	18.36	35.04	2000	4.8	A	A
4.30-5.30 PM	AADT * 1.37	50	15.62	22.57	19.06	36.38	2000	4.9	A	A
4.30-5.30 PM	AADT * 1.37	50	16.20	23.41	19.77	37.73	2000	5	A	A
4.30-5.30 PM	AADT * 1.37	50	16.78	24.24	20.47	39.08	2000	5	A	A
4.30-5.30 PM	AADT * 1.37	50	17.36	25.08	21.18	40.43	2000	5.1	A	A
4.30-5.30 PM	AADT * 2.053	50	10.41	15.05	12.71	24.26	3000	4.7	A	A
4.30-5.30 PM	AADT * 2.053	50	10.99	15.88	13.41	25.60	3000	4.7	A	A
4.30-5.30 PM	AADT * 2.053	50	11.57	16.72	14.12	26.95	3000	4.7	A	A
4.30-5.30 PM	AADT * 2.053	50	12.15	17.56	14.83	28.30	3000	4.8	A	A
4.30-5.30 PM	AADT * 2.053	50	12.73	18.39	15.53	29.65	3000	4.8	A	A
4.30-5.30 PM	AADT * 2.053	50	13.31	19.23	16.24	30.99	3000	4.8	A	A
4.30-5.30 PM	AADT * 2.053	50	13.88	20.06	16.94	32.34	3000	4.9	A	A
4.30-5.30 PM	AADT * 2.053	50	14.46	20.90	17.65	33.69	3000	4.9	A	A
4.30-5.30 PM	AADT * 2.053	50	15.04	21.74	18.36	35.04	3000	5	A	A
4.30-5.30 PM	AADT * 2.053	50	15.62	22.57	19.06	36.38	3000	5	A	A
4.30-5.30 PM	AADT * 2.053	50	16.20	23.41	19.77	37.73	3000	5	A	A

4.30-5.30 PM	AADT * 2.053	50	16.78	24.24	20.47	39.08	3000	5.1	A	A
4.30-5.30 PM	AADT * 2.053	50	17.36	25.08	21.18	40.43	3000	5.1	A	A
4.30-5.30 PM	AADT * 2.738	50	10.41	15.05	12.71	24.26	4000	29.3	C	D
4.30-5.30 PM	AADT * 2.738	50	10.99	15.88	13.41	25.60	4000	30.1	C	D
4.30-5.30 PM	AADT * 2.738	50	11.57	16.72	14.12	26.95	4000	30.9	C	D
4.30-5.30 PM	AADT * 2.738	50	12.15	17.56	14.83	28.30	4000	31.7	C	D
4.30-5.30 PM	AADT * 2.738	50	12.73	18.39	15.53	29.65	4000	32.5	C	D
4.30-5.30 PM	AADT * 2.738	50	13.31	19.23	16.24	30.99	4000	33.3	C	D
4.30-5.30 PM	AADT * 2.738	50	13.88	20.06	16.94	32.34	4000	34.1	C	D
4.30-5.30 PM	AADT * 2.738	50	14.46	20.90	17.65	33.69	4000	35	D	E
4.30-5.30 PM	AADT * 2.738	50	15.04	21.74	18.36	35.04	4000	35.9	D	E
4.30-5.30 PM	AADT * 2.738	50	15.62	22.57	19.06	36.38	4000	37.2	D	E
4.30-5.30 PM	AADT * 2.738	50	16.20	23.41	19.77	37.73	4000	38.4	D	E
4.30-5.30 PM	AADT * 2.738	50	16.78	24.24	20.47	39.08	4000	39.6	D	E
4.30-5.30 PM	AADT * 2.738	50	17.36	25.08	21.18	40.43	4000	40.9	D	E
8.30-9.30 AM	AADT * 1	85	10.41	15.05	12.71	24.26	1205	2.7	A	A
8.30-9.30 AM	AADT * 1	85	10.99	15.88	13.41	25.60	1205	2.7	A	A
8.30-9.30 AM	AADT * 1	85	11.57	16.72	14.12	26.95	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	12.15	17.56	14.83	28.30	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	12.73	18.39	15.53	29.65	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	13.31	19.23	16.24	30.99	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	13.88	20.06	16.94	32.34	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	14.46	20.90	17.65	33.69	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	15.04	21.74	18.36	35.04	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	15.62	22.57	19.06	36.38	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	16.20	23.41	19.77	37.73	1205	2.9	A	A
8.30-9.30 AM	AADT * 1	85	16.78	24.24	20.47	39.08	1205	2.9	A	A
8.30-9.30 AM	AADT * 1	85	17.36	25.08	21.18	40.43	1205	2.9	A	A
8.30-9.30 AM	AADT * 1.66	85	10.41	15.05	12.71	24.26	2000	4	A	A
8.30-9.30 AM	AADT * 1.66	85	10.99	15.88	13.41	25.60	2000	4	A	A
8.30-9.30 AM	AADT * 1.66	85	11.57	16.72	14.12	26.95	2000	4.1	A	A
8.30-9.30 AM	AADT * 1.66	85	12.15	17.56	14.83	28.30	2000	4.1	A	A
8.30-9.30 AM	AADT * 1.66	85	12.73	18.39	15.53	29.65	2000	4.1	A	A
8.30-9.30 AM	AADT * 1.66	85	13.31	19.23	16.24	30.99	2000	4.2	A	A
8.30-9.30 AM	AADT * 1.66	85	13.88	20.06	16.94	32.34	2000	4.2	A	A
8.30-9.30 AM	AADT * 1.66	85	14.46	20.90	17.65	33.69	2000	4.2	A	A
8.30-9.30 AM	AADT * 1.66	85	15.04	21.74	18.36	35.04	2000	4.2	A	A
8.30-9.30 AM	AADT * 1.66	85	15.62	22.57	19.06	36.38	2000	4.3	A	A
8.30-9.30 AM	AADT * 1.66	85	16.20	23.41	19.77	37.73	2000	4.3	A	A
8.30-9.30 AM	AADT * 1.66	85	16.78	24.24	20.47	39.08	2000	4.3	A	A
8.30-9.30 AM	AADT * 1.66	85	17.36	25.08	21.18	40.43	2000	4.4	A	A
8.30-9.30 AM	AADT * 2.49	85	10.41	15.05	12.71	24.26	3000	20.4	C	C
8.30-9.30 AM	AADT * 2.49	85	10.99	15.88	13.41	25.60	3000	21.1	C	C
8.30-9.30 AM	AADT * 2.49	85	11.57	16.72	14.12	26.95	3000	21.8	C	C
8.30-9.30 AM	AADT * 2.49	85	12.15	17.56	14.83	28.30	3000	22.5	C	C
8.30-9.30 AM	AADT * 2.49	85	12.73	18.39	15.53	29.65	3000	23.2	C	C
8.30-9.30 AM	AADT * 2.49	85	13.31	19.23	16.24	30.99	3000	24	C	C
8.30-9.30 AM	AADT * 2.49	85	13.88	20.06	16.94	32.34	3000	24.8	C	C

8.30-9.30 AM	AADT * 2.49	85	14.46	20.90	17.65	33.69	3000	25.6	C	D
8.30-9.30 AM	AADT * 2.49	85	15.04	21.74	18.36	35.04	3000	26.5	C	D
8.30-9.30 AM	AADT * 2.49	85	15.62	22.57	19.06	36.38	3000	27.3	C	D
8.30-9.30 AM	AADT * 2.49	85	16.20	23.41	19.77	37.73	3000	28.2	C	D
8.30-9.30 AM	AADT * 2.49	85	16.78	24.24	20.47	39.08	3000	29.3	C	D
8.30-9.30 AM	AADT * 2.49	85	17.36	25.08	21.18	40.43	3000	30.6	C	D
8.30-9.30 AM	AADT * 3.32	85	10.41	15.05	12.71	24.26	4000	191.4	F	F
8.30-9.30 AM	AADT * 3.32	85	10.99	15.88	13.41	25.60	4000	193	F	F
8.30-9.30 AM	AADT * 3.32	85	11.57	16.72	14.12	26.95	4000	194.7	F	F
8.30-9.30 AM	AADT * 3.32	85	12.15	17.56	14.83	28.30	4000	196.4	F	F
8.30-9.30 AM	AADT * 3.32	85	12.73	18.39	15.53	29.65	4000	198.1	F	F
8.30-9.30 AM	AADT * 3.32	85	13.31	19.23	16.24	30.99	4000	199.8	F	F
8.30-9.30 AM	AADT * 3.32	85	13.88	20.06	16.94	32.34	4000	201.5	F	F
8.30-9.30 AM	AADT * 3.32	85	14.46	20.90	17.65	33.69	4000	203.2	F	F
8.30-9.30 AM	AADT * 3.32	85	15.04	21.74	18.36	35.04	4000	205	F	F
8.30-9.30 AM	AADT * 3.32	85	15.62	22.57	19.06	36.38	4000	206.8	F	F
8.30-9.30 AM	AADT * 3.32	85	16.20	23.41	19.77	37.73	4000	208.6	F	F
8.30-9.30 AM	AADT * 3.32	85	16.78	24.24	20.47	39.08	4000	210.4	F	F
8.30-9.30 AM	AADT * 3.32	85	17.36	25.08	21.18	40.43	4000	212.2	F	F
12.30-1.30 PM	AADT * 1	85	10.41	15.05	12.71	24.26	575	2.1	A	A
12.30-1.30 PM	AADT * 1	85	10.99	15.88	13.41	25.60	575	2.1	A	A
12.30-1.30 PM	AADT * 1	85	11.57	16.72	14.12	26.95	575	2.1	A	A
12.30-1.30 PM	AADT * 1	85	12.15	17.56	14.83	28.30	575	2.1	A	A
12.30-1.30 PM	AADT * 1	85	12.73	18.39	15.53	29.65	575	2.1	A	A
12.30-1.30 PM	AADT * 1	85	13.31	19.23	16.24	30.99	575	2.1	A	A
12.30-1.30 PM	AADT * 1	85	13.88	20.06	16.94	32.34	575	2.1	A	A
12.30-1.30 PM	AADT * 1	85	14.46	20.90	17.65	33.69	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	15.04	21.74	18.36	35.04	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	15.62	22.57	19.06	36.38	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	16.20	23.41	19.77	37.73	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	16.78	24.24	20.47	39.08	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	17.36	25.08	21.18	40.43	575	2.2	A	A
12.30-1.30 PM	AADT * 3.478	85	10.41	15.05	12.71	24.26	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	10.99	15.88	13.41	25.60	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	11.57	16.72	14.12	26.95	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	12.15	17.56	14.83	28.30	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	12.73	18.39	15.53	29.65	2000	3.7	A	A
12.30-1.30 PM	AADT * 3.478	85	13.31	19.23	16.24	30.99	2000	3.7	A	A
12.30-1.30 PM	AADT * 3.478	85	13.88	20.06	16.94	32.34	2000	3.7	A	A
12.30-1.30 PM	AADT * 3.478	85	14.46	20.90	17.65	33.69	2000	3.7	A	A
12.30-1.30 PM	AADT * 3.478	85	15.04	21.74	18.36	35.04	2000	3.7	A	A
12.30-1.30 PM	AADT * 3.478	85	15.62	22.57	19.06	36.38	2000	3.8	A	A
12.30-1.30 PM	AADT * 3.478	85	16.20	23.41	19.77	37.73	2000	3.8	A	A
12.30-1.30 PM	AADT * 3.478	85	16.78	24.24	20.47	39.08	2000	3.8	A	A
12.30-1.30 PM	AADT * 3.478	85	17.36	25.08	21.18	40.43	2000	3.8	A	A
12.30-1.30 PM	AADT * 5.217	85	10.41	15.05	12.71	24.26	3000	7.6	A	A
12.30-1.30 PM	AADT * 5.217	85	10.99	15.88	13.41	25.60	3000	7.7	A	A
12.30-1.30 PM	AADT * 5.217	85	11.57	16.72	14.12	26.95	3000	7.8	A	A

12.30-1.30 PM	AADT * 5.217	85	12.15	17.56	14.83	28.30	3000	7.9	A	A
12.30-1.30 PM	AADT * 5.217	85	12.73	18.39	15.53	29.65	3000	8	A	A
12.30-1.30 PM	AADT * 5.217	85	13.31	19.23	16.24	30.99	3000	8.2	A	A
12.30-1.30 PM	AADT * 5.217	85	13.88	20.06	16.94	32.34	3000	8.3	A	A
12.30-1.30 PM	AADT * 5.217	85	14.46	20.90	17.65	33.69	3000	8.4	A	A
12.30-1.30 PM	AADT * 5.217	85	15.04	21.74	18.36	35.04	3000	8.5	A	A
12.30-1.30 PM	AADT * 5.217	85	15.62	22.57	19.06	36.38	3000	8.7	A	A
12.30-1.30 PM	AADT * 5.217	85	16.20	23.41	19.77	37.73	3000	8.8	A	A
12.30-1.30 PM	AADT * 5.217	85	16.78	24.24	20.47	39.08	3000	8.9	A	A
12.30-1.30 PM	AADT * 5.217	85	17.36	25.08	21.18	40.43	3000	9.1	A	A
12.30-1.30 PM	AADT * 6.956	85	10.41	15.05	12.71	24.26	4000	89.9	F	F
12.30-1.30 PM	AADT * 6.956	85	10.99	15.88	13.41	25.60	4000	91.4	F	F
12.30-1.30 PM	AADT * 6.956	85	11.57	16.72	14.12	26.95	4000	93	F	F
12.30-1.30 PM	AADT * 6.956	85	12.15	17.56	14.83	28.30	4000	94.5	F	F
12.30-1.30 PM	AADT * 6.956	85	12.73	18.39	15.53	29.65	4000	96.1	F	F
12.30-1.30 PM	AADT * 6.956	85	13.31	19.23	16.24	30.99	4000	97.7	F	F
12.30-1.30 PM	AADT * 6.956	85	13.88	20.06	16.94	32.34	4000	99.4	F	F
12.30-1.30 PM	AADT * 6.956	85	14.46	20.90	17.65	33.69	4000	101.1	F	F
12.30-1.30 PM	AADT * 6.956	85	15.04	21.74	18.36	35.04	4000	102.8	F	F
12.30-1.30 PM	AADT * 6.956	85	15.62	22.57	19.06	36.38	4000	104.8	F	F
12.30-1.30 PM	AADT * 6.956	85	16.20	23.41	19.77	37.73	4000	106.7	F	F
12.30-1.30 PM	AADT * 6.956	85	16.78	24.24	20.47	39.08	4000	108.7	F	F
12.30-1.30 PM	AADT * 6.956	85	17.36	25.08	21.18	40.43	4000	110.7	F	F
4.30-5.30 PM	AADT * 1	85	10.41	15.05	12.71	24.26	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	10.99	15.88	13.41	25.60	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	11.57	16.72	14.12	26.95	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	12.15	17.56	14.83	28.30	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	12.73	18.39	15.53	29.65	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	13.31	19.23	16.24	30.99	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	13.88	20.06	16.94	32.34	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	14.46	20.90	17.65	33.69	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	15.04	21.74	18.36	35.04	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	15.62	22.57	19.06	36.38	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	16.20	23.41	19.77	37.73	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	16.78	24.24	20.47	39.08	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	17.36	25.08	21.18	40.43	1461	2.8	A	A
4.30-5.30 PM	AADT * 1.37	85	10.41	15.05	12.71	24.26	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	10.99	15.88	13.41	25.60	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	11.57	16.72	14.12	26.95	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	12.15	17.56	14.83	28.30	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	12.73	18.39	15.53	29.65	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	13.31	19.23	16.24	30.99	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.37	85	13.88	20.06	16.94	32.34	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.37	85	14.46	20.90	17.65	33.69	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.37	85	15.04	21.74	18.36	35.04	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.37	85	15.62	22.57	19.06	36.38	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.37	85	16.20	23.41	19.77	37.73	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.37	85	16.78	24.24	20.47	39.08	2000	3.6	A	A

4.30-5.30 PM	AADT * 1.37	85	17.36	25.08	21.18	40.43	2000	3.6	A	A
4.30-5.30 PM	AADT * 2.053	85	10.41	15.05	12.71	24.26	3000	6.8	A	A
4.30-5.30 PM	AADT * 2.053	85	10.99	15.88	13.41	25.60	3000	6.9	A	A
4.30-5.30 PM	AADT * 2.053	85	11.57	16.72	14.12	26.95	3000	7	A	A
4.30-5.30 PM	AADT * 2.053	85	12.15	17.56	14.83	28.30	3000	7	A	A
4.30-5.30 PM	AADT * 2.053	85	12.73	18.39	15.53	29.65	3000	7.1	A	A
4.30-5.30 PM	AADT * 2.053	85	13.31	19.23	16.24	30.99	3000	7.2	A	A
4.30-5.30 PM	AADT * 2.053	85	13.88	20.06	16.94	32.34	3000	7.3	A	A
4.30-5.30 PM	AADT * 2.053	85	14.46	20.90	17.65	33.69	3000	7.4	A	A
4.30-5.30 PM	AADT * 2.053	85	15.04	21.74	18.36	35.04	3000	7.5	A	A
4.30-5.30 PM	AADT * 2.053	85	15.62	22.57	19.06	36.38	3000	7.5	A	A
4.30-5.30 PM	AADT * 2.053	85	16.20	23.41	19.77	37.73	3000	7.6	A	A
4.30-5.30 PM	AADT * 2.053	85	16.78	24.24	20.47	39.08	3000	7.7	A	A
4.30-5.30 PM	AADT * 2.053	85	17.36	25.08	21.18	40.43	3000	7.8	A	A
4.30-5.30 PM	AADT * 2.738	85	10.41	15.05	12.71	24.26	4000	81.1	F	F
4.30-5.30 PM	AADT * 2.738	85	10.99	15.88	13.41	25.60	4000	82.6	F	F
4.30-5.30 PM	AADT * 2.738	85	11.57	16.72	14.12	26.95	4000	84.2	F	F
4.30-5.30 PM	AADT * 2.738	85	12.15	17.56	14.83	28.30	4000	85.8	F	F
4.30-5.30 PM	AADT * 2.738	85	12.73	18.39	15.53	29.65	4000	87.4	F	F
4.30-5.30 PM	AADT * 2.738	85	13.31	19.23	16.24	30.99	4000	89	F	F
4.30-5.30 PM	AADT * 2.738	85	13.88	20.06	16.94	32.34	4000	90.6	F	F
4.30-5.30 PM	AADT * 2.738	85	14.46	20.90	17.65	33.69	4000	92.2	F	F
4.30-5.30 PM	AADT * 2.738	85	15.04	21.74	18.36	35.04	4000	93.9	F	F
4.30-5.30 PM	AADT * 2.738	85	15.62	22.57	19.06	36.38	4000	95.6	F	F
4.30-5.30 PM	AADT * 2.738	85	16.20	23.41	19.77	37.73	4000	97.2	F	F
4.30-5.30 PM	AADT * 2.738	85	16.78	24.24	20.47	39.08	4000	98.9	F	F
4.30-5.30 PM	AADT * 2.738	85	17.36	25.08	21.18	40.43	4000	100.7	F	F

Inscribed Circle Diameter for Ira-Needle/Trussler/Highview Roundabout

Timeframe	AADT Assumptions	CL	DIAMETER-IRA NEEDLE SOUTH	DIAMETER - TRUSSLER	DIAMETER - IRA NEEDLE NORTH	DIAMETER-HIGHVIEW	AADT	AVERAGE DELAY	LOS SIG	LOS UNSIG
8.30-9.30 AM	AADT * 1	50	25.23	25.23	25.23	25.23	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	27.75	27.75	27.75	27.75	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	30.27	30.27	30.27	30.27	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	32.79	32.79	32.79	32.79	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	35.32	35.32	35.32	35.32	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	37.84	37.84	37.84	37.84	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	40.36	40.36	40.36	40.36	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	42.88	42.88	42.88	42.88	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	45.41	45.41	45.41	45.41	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	47.93	47.93	47.93	47.93	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	50.45	50.45	50.45	50.45	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	52.97	52.97	52.97	52.97	1205	2.4	A	A
8.30-9.30 AM	AADT * 1	50	55.50	55.50	55.50	55.50	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	58.02	58.02	58.02	58.02	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	60.54	60.54	60.54	60.54	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	63.06	63.06	63.06	63.06	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	65.59	65.59	65.59	65.59	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	68.11	68.11	68.11	68.11	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	70.63	70.63	70.63	70.63	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	73.15	73.15	73.15	73.15	1205	2.3	A	A
8.30-9.30 AM	AADT * 1	50	75.68	75.68	75.68	75.68	1205	2.3	A	A
8.30-9.30 AM	AADT * 1.66	50	25.23	25.23	25.23	25.23	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.66	50	27.75	27.75	27.75	27.75	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.66	50	30.27	30.27	30.27	30.27	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.66	50	32.79	32.79	32.79	32.79	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.66	50	35.32	35.32	35.32	35.32	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.66	50	37.84	37.84	37.84	37.84	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.66	50	40.36	40.36	40.36	40.36	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.66	50	42.88	42.88	42.88	42.88	2000	3.3	A	A
8.30-9.30 AM	AADT * 1.66	50	45.41	45.41	45.41	45.41	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	47.93	47.93	47.93	47.93	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	50.45	50.45	50.45	50.45	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	52.97	52.97	52.97	52.97	2000	3.2	A	A
8.30-9.30 AM	AADT * 1.66	50	55.50	55.50	55.50	55.50	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.66	50	58.02	58.02	58.02	58.02	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.66	50	60.54	60.54	60.54	60.54	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.66	50	63.06	63.06	63.06	63.06	2000	3.1	A	A
8.30-9.30 AM	AADT * 1.66	50	65.59	65.59	65.59	65.59	2000	3	A	A
8.30-9.30 AM	AADT * 1.66	50	68.11	68.11	68.11	68.11	2000	3	A	A
8.30-9.30 AM	AADT * 1.66	50	70.63	70.63	70.63	70.63	2000	3	A	A
8.30-9.30 AM	AADT * 1.66	50	73.15	73.15	73.15	73.15	2000	3	A	A
8.30-9.30 AM	AADT * 1.66	50	75.68	75.68	75.68	75.68	2000	3	A	A
8.30-9.30 AM	AADT * 2.49	50	25.23	25.23	25.23	25.23	3000	8.4	A	A

8.30-9.30 AM	AADT * 2.49	50	27.75	27.75	27.75	27.75	3000	8.4	A	A
8.30-9.30 AM	AADT * 2.49	50	30.27	30.27	30.27	30.27	3000	8.3	A	A
8.30-9.30 AM	AADT * 2.49	50	32.79	32.79	32.79	32.79	3000	8.1	A	A
8.30-9.30 AM	AADT * 2.49	50	35.32	35.32	35.32	35.32	3000	8	A	A
8.30-9.30 AM	AADT * 2.49	50	37.84	37.84	37.84	37.84	3000	7.8	A	A
8.30-9.30 AM	AADT * 2.49	50	40.36	40.36	40.36	40.36	3000	7.6	A	A
8.30-9.30 AM	AADT * 2.49	50	42.88	42.88	42.88	42.88	3000	7.4	A	A
8.30-9.30 AM	AADT * 2.49	50	45.41	45.41	45.41	45.41	3000	7.2	A	A
8.30-9.30 AM	AADT * 2.49	50	47.93	47.93	47.93	47.93	3000	6.9	A	A
8.30-9.30 AM	AADT * 2.49	50	50.45	50.45	50.45	50.45	3000	6.7	A	A
8.30-9.30 AM	AADT * 2.49	50	52.97	52.97	52.97	52.97	3000	6.4	A	A
8.30-9.30 AM	AADT * 2.49	50	55.50	55.50	55.50	55.50	3000	6.2	A	A
8.30-9.30 AM	AADT * 2.49	50	58.02	58.02	58.02	58.02	3000	5.9	A	A
8.30-9.30 AM	AADT * 2.49	50	60.54	60.54	60.54	60.54	3000	5.7	A	A
8.30-9.30 AM	AADT * 2.49	50	63.06	63.06	63.06	63.06	3000	5.5	A	A
8.30-9.30 AM	AADT * 2.49	50	65.59	65.59	65.59	65.59	3000	5.4	A	A
8.30-9.30 AM	AADT * 2.49	50	68.11	68.11	68.11	68.11	3000	5.2	A	A
8.30-9.30 AM	AADT * 2.49	50	70.63	70.63	70.63	70.63	3000	5.1	A	A
8.30-9.30 AM	AADT * 2.49	50	73.15	73.15	73.15	73.15	3000	5	A	A
8.30-9.30 AM	AADT * 2.49	50	75.68	75.68	75.68	75.68	3000	4.9	A	A
8.30-9.30 AM	AADT * 3.32	50	25.23	25.23	25.23	25.23	4000	126.6	F	F
8.30-9.30 AM	AADT * 3.32	50	27.75	27.75	27.75	27.75	4000	125.2	F	F
8.30-9.30 AM	AADT * 3.32	50	30.27	30.27	30.27	30.27	4000	123.5	F	F
8.30-9.30 AM	AADT * 3.32	50	32.79	32.79	32.79	32.79	4000	121.3	F	F
8.30-9.30 AM	AADT * 3.32	50	35.32	35.32	35.32	35.32	4000	118.5	F	F
8.30-9.30 AM	AADT * 3.32	50	37.84	37.84	37.84	37.84	4000	115.2	F	F
8.30-9.30 AM	AADT * 3.32	50	40.36	40.36	40.36	40.36	4000	111.2	F	F
8.30-9.30 AM	AADT * 3.32	50	42.88	42.88	42.88	42.88	4000	106.5	F	F
8.30-9.30 AM	AADT * 3.32	50	45.41	45.41	45.41	45.41	4000	100.9	F	F
8.30-9.30 AM	AADT * 3.32	50	47.93	47.93	47.93	47.93	4000	95.1	F	F
8.30-9.30 AM	AADT * 3.32	50	50.45	50.45	50.45	50.45	4000	88.9	F	F
8.30-9.30 AM	AADT * 3.32	50	52.97	52.97	52.97	52.97	4000	82.3	F	F
8.30-9.30 AM	AADT * 3.32	50	55.50	55.50	55.50	55.50	4000	75.6	E	F
8.30-9.30 AM	AADT * 3.32	50	58.02	58.02	58.02	58.02	4000	69	E	F
8.30-9.30 AM	AADT * 3.32	50	60.54	60.54	60.54	60.54	4000	62.6	E	F
8.30-9.30 AM	AADT * 3.32	50	63.06	63.06	63.06	63.06	4000	56.7	E	F
8.30-9.30 AM	AADT * 3.32	50	65.59	65.59	65.59	65.59	4000	51.2	D	F
8.30-9.30 AM	AADT * 3.32	50	68.11	68.11	68.11	68.11	4000	46.3	D	E
8.30-9.30 AM	AADT * 3.32	50	70.63	70.63	70.63	70.63	4000	41.9	D	E
8.30-9.30 AM	AADT * 3.32	50	73.15	73.15	73.15	73.15	4000	38.2	D	E
8.30-9.30 AM	AADT * 3.32	50	75.68	75.68	75.68	75.68	4000	35	D	E
12.30-1.30 PM	AADT * 1	50	25.23	25.23	25.23	25.23	575	2	A	A
12.30-1.30 PM	AADT * 1	50	27.75	27.75	27.75	27.75	575	2	A	A
12.30-1.30 PM	AADT * 1	50	30.27	30.27	30.27	30.27	575	2	A	A
12.30-1.30 PM	AADT * 1	50	32.79	32.79	32.79	32.79	575	2	A	A
12.30-1.30 PM	AADT * 1	50	35.32	35.32	35.32	35.32	575	2	A	A
12.30-1.30 PM	AADT * 1	50	37.84	37.84	37.84	37.84	575	2	A	A
12.30-1.30 PM	AADT * 1	50	40.36	40.36	40.36	40.36	575	2	A	A

12.30-1.30 PM	AADT * 1	50	42.88	42.88	42.88	42.88	575	2	A	A
12.30-1.30 PM	AADT * 1	50	45.41	45.41	45.41	45.41	575	2	A	A
12.30-1.30 PM	AADT * 1	50	47.93	47.93	47.93	47.93	575	2	A	A
12.30-1.30 PM	AADT * 1	50	50.45	50.45	50.45	50.45	575	2	A	A
12.30-1.30 PM	AADT * 1	50	52.97	52.97	52.97	52.97	575	2	A	A
12.30-1.30 PM	AADT * 1	50	55.50	55.50	55.50	55.50	575	2	A	A
12.30-1.30 PM	AADT * 1	50	58.02	58.02	58.02	58.02	575	2	A	A
12.30-1.30 PM	AADT * 1	50	60.54	60.54	60.54	60.54	575	2	A	A
12.30-1.30 PM	AADT * 1	50	63.06	63.06	63.06	63.06	575	2	A	A
12.30-1.30 PM	AADT * 1	50	65.59	65.59	65.59	65.59	575	2	A	A
12.30-1.30 PM	AADT * 1	50	68.11	68.11	68.11	68.11	575	2	A	A
12.30-1.30 PM	AADT * 1	50	70.63	70.63	70.63	70.63	575	2	A	A
12.30-1.30 PM	AADT * 1	50	73.15	73.15	73.15	73.15	575	2	A	A
12.30-1.30 PM	AADT * 1	50	75.68	75.68	75.68	75.68	575	2	A	A
12.30-1.30 PM	AADT * 3.478	50	25.23	25.23	25.23	25.23	2000	3.2	A	A
12.30-1.30 PM	AADT * 3.478	50	27.75	27.75	27.75	27.75	2000	3.2	A	A
12.30-1.30 PM	AADT * 3.478	50	30.27	30.27	30.27	30.27	2000	3.1	A	A
12.30-1.30 PM	AADT * 3.478	50	32.79	32.79	32.79	32.79	2000	3.1	A	A
12.30-1.30 PM	AADT * 3.478	50	35.32	35.32	35.32	35.32	2000	3.1	A	A
12.30-1.30 PM	AADT * 3.478	50	37.84	37.84	37.84	37.84	2000	3.1	A	A
12.30-1.30 PM	AADT * 3.478	50	40.36	40.36	40.36	40.36	2000	3.1	A	A
12.30-1.30 PM	AADT * 3.478	50	42.88	42.88	42.88	42.88	2000	3.1	A	A
12.30-1.30 PM	AADT * 3.478	50	45.41	45.41	45.41	45.41	2000	3.1	A	A
12.30-1.30 PM	AADT * 3.478	50	47.93	47.93	47.93	47.93	2000	3.1	A	A
12.30-1.30 PM	AADT * 3.478	50	50.45	50.45	50.45	50.45	2000	3.1	A	A
12.30-1.30 PM	AADT * 3.478	50	52.97	52.97	52.97	52.97	2000	3.1	A	A
12.30-1.30 PM	AADT * 3.478	50	55.50	55.50	55.50	55.50	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	58.02	58.02	58.02	58.02	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	60.54	60.54	60.54	60.54	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	63.06	63.06	63.06	63.06	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	65.59	65.59	65.59	65.59	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	68.11	68.11	68.11	68.11	2000	3	A	A
12.30-1.30 PM	AADT * 3.478	50	70.63	70.63	70.63	70.63	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	73.15	73.15	73.15	73.15	2000	2.9	A	A
12.30-1.30 PM	AADT * 3.478	50	75.68	75.68	75.68	75.68	2000	2.9	A	A
12.30-1.30 PM	AADT * 5.217	50	25.23	25.23	25.23	25.23	3000	5.7	A	A
12.30-1.30 PM	AADT * 5.217	50	27.75	27.75	27.75	27.75	3000	5.7	A	A
12.30-1.30 PM	AADT * 5.217	50	30.27	30.27	30.27	30.27	3000	5.7	A	A
12.30-1.30 PM	AADT * 5.217	50	32.79	32.79	32.79	32.79	3000	5.7	A	A
12.30-1.30 PM	AADT * 5.217	50	35.32	35.32	35.32	35.32	3000	5.6	A	A
12.30-1.30 PM	AADT * 5.217	50	37.84	37.84	37.84	37.84	3000	5.6	A	A
12.30-1.30 PM	AADT * 5.217	50	40.36	40.36	40.36	40.36	3000	5.5	A	A
12.30-1.30 PM	AADT * 5.217	50	42.88	42.88	42.88	42.88	3000	5.5	A	A
12.30-1.30 PM	AADT * 5.217	50	45.41	45.41	45.41	45.41	3000	5.4	A	A
12.30-1.30 PM	AADT * 5.217	50	47.93	47.93	47.93	47.93	3000	5.4	A	A
12.30-1.30 PM	AADT * 5.217	50	50.45	50.45	50.45	50.45	3000	5.3	A	A
12.30-1.30 PM	AADT * 5.217	50	52.97	52.97	52.97	52.97	3000	5.2	A	A
12.30-1.30 PM	AADT * 5.217	50	55.50	55.50	55.50	55.50	3000	5.1	A	A

12.30-1.30 PM	AADT * 5.217	50	58.02	58.02	58.02	58.02	3000	5	A	A
12.30-1.30 PM	AADT * 5.217	50	60.54	60.54	60.54	60.54	3000	4.9	A	A
12.30-1.30 PM	AADT * 5.217	50	63.06	63.06	63.06	63.06	3000	4.9	A	A
12.30-1.30 PM	AADT * 5.217	50	65.59	65.59	65.59	65.59	3000	4.8	A	A
12.30-1.30 PM	AADT * 5.217	50	68.11	68.11	68.11	68.11	3000	4.7	A	A
12.30-1.30 PM	AADT * 5.217	50	70.63	70.63	70.63	70.63	3000	4.7	A	A
12.30-1.30 PM	AADT * 5.217	50	73.15	73.15	73.15	73.15	3000	4.6	A	A
12.30-1.30 PM	AADT * 5.217	50	75.68	75.68	75.68	75.68	3000	4.6	A	A
12.30-1.30 PM	AADT * 6.956	50	25.23	25.23	25.23	25.23	4000	51.4	D	F
12.30-1.30 PM	AADT * 6.956	50	27.75	27.75	27.75	27.75	4000	50.7	D	F
12.30-1.30 PM	AADT * 6.956	50	30.27	30.27	30.27	30.27	4000	49.8	D	E
12.30-1.30 PM	AADT * 6.956	50	32.79	32.79	32.79	32.79	4000	48.6	D	E
12.30-1.30 PM	AADT * 6.956	50	35.32	35.32	35.32	35.32	4000	47.2	D	E
12.30-1.30 PM	AADT * 6.956	50	37.84	37.84	37.84	37.84	4000	45.5	D	E
12.30-1.30 PM	AADT * 6.956	50	40.36	40.36	40.36	40.36	4000	43.4	D	E
12.30-1.30 PM	AADT * 6.956	50	42.88	42.88	42.88	42.88	4000	40.9	D	E
12.30-1.30 PM	AADT * 6.956	50	45.41	45.41	45.41	45.41	4000	38	D	E
12.30-1.30 PM	AADT * 6.956	50	47.93	47.93	47.93	47.93	4000	34.7	C	D
12.30-1.30 PM	AADT * 6.956	50	50.45	50.45	50.45	50.45	4000	31	C	D
12.30-1.30 PM	AADT * 6.956	50	52.97	52.97	52.97	52.97	4000	27.7	C	D
12.30-1.30 PM	AADT * 6.956	50	55.50	55.50	55.50	55.50	4000	24.8	C	C
12.30-1.30 PM	AADT * 6.956	50	58.02	58.02	58.02	58.02	4000	22.1	C	C
12.30-1.30 PM	AADT * 6.956	50	60.54	60.54	60.54	60.54	4000	19.7	B	C
12.30-1.30 PM	AADT * 6.956	50	63.06	63.06	63.06	63.06	4000	17.8	B	C
12.30-1.30 PM	AADT * 6.956	50	65.59	65.59	65.59	65.59	4000	16.3	B	C
12.30-1.30 PM	AADT * 6.956	50	68.11	68.11	68.11	68.11	4000	15.2	B	C
12.30-1.30 PM	AADT * 6.956	50	70.63	70.63	70.63	70.63	4000	14.4	B	B
12.30-1.30 PM	AADT * 6.956	50	73.15	73.15	73.15	73.15	4000	13.8	B	B
12.30-1.30 PM	AADT * 6.956	50	75.68	75.68	75.68	75.68	4000	13.3	B	B
4.30-5.30 PM	AADT * 1	50	25.23	25.23	25.23	25.23	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	27.75	27.75	27.75	27.75	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	30.27	30.27	30.27	30.27	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	32.79	32.79	32.79	32.79	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	35.32	35.32	35.32	35.32	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	37.84	37.84	37.84	37.84	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	40.36	40.36	40.36	40.36	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	42.88	42.88	42.88	42.88	1461	2.4	A	A
4.30-5.30 PM	AADT * 1	50	45.41	45.41	45.41	45.41	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	47.93	47.93	47.93	47.93	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	50.45	50.45	50.45	50.45	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	52.97	52.97	52.97	52.97	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	55.50	55.50	55.50	55.50	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	58.02	58.02	58.02	58.02	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	60.54	60.54	60.54	60.54	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	63.06	63.06	63.06	63.06	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	65.59	65.59	65.59	65.59	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	68.11	68.11	68.11	68.11	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	70.63	70.63	70.63	70.63	1461	2.3	A	A

4.30-5.30 PM	AADT * 1	50	73.15	73.15	73.15	73.15	1461	2.3	A	A
4.30-5.30 PM	AADT * 1	50	75.68	75.68	75.68	75.68	1461	2.3	A	A
4.30-5.30 PM	AADT * 1.37	50	25.23	25.23	25.23	25.23	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.37	50	27.75	27.75	27.75	27.75	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.37	50	30.27	30.27	30.27	30.27	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.37	50	32.79	32.79	32.79	32.79	2000	2.9	A	A
4.30-5.30 PM	AADT * 1.37	50	35.32	35.32	35.32	35.32	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	37.84	37.84	37.84	37.84	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	40.36	40.36	40.36	40.36	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	42.88	42.88	42.88	42.88	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	45.41	45.41	45.41	45.41	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	47.93	47.93	47.93	47.93	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	50.45	50.45	50.45	50.45	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	52.97	52.97	52.97	52.97	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	55.50	55.50	55.50	55.50	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	58.02	58.02	58.02	58.02	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	60.54	60.54	60.54	60.54	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	63.06	63.06	63.06	63.06	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	65.59	65.59	65.59	65.59	2000	2.8	A	A
4.30-5.30 PM	AADT * 1.37	50	68.11	68.11	68.11	68.11	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.37	50	70.63	70.63	70.63	70.63	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.37	50	73.15	73.15	73.15	73.15	2000	2.7	A	A
4.30-5.30 PM	AADT * 1.37	50	75.68	75.68	75.68	75.68	2000	2.7	A	A
4.30-5.30 PM	AADT * 2.053	50	25.23	25.23	25.23	25.23	3000	4.9	A	A
4.30-5.30 PM	AADT * 2.053	50	27.75	27.75	27.75	27.75	3000	4.9	A	A
4.30-5.30 PM	AADT * 2.053	50	30.27	30.27	30.27	30.27	3000	4.9	A	A
4.30-5.30 PM	AADT * 2.053	50	32.79	32.79	32.79	32.79	3000	4.9	A	A
4.30-5.30 PM	AADT * 2.053	50	35.32	35.32	35.32	35.32	3000	4.9	A	A
4.30-5.30 PM	AADT * 2.053	50	37.84	37.84	37.84	37.84	3000	4.9	A	A
4.30-5.30 PM	AADT * 2.053	50	40.36	40.36	40.36	40.36	3000	4.9	A	A
4.30-5.30 PM	AADT * 2.053	50	42.88	42.88	42.88	42.88	3000	4.8	A	A
4.30-5.30 PM	AADT * 2.053	50	45.41	45.41	45.41	45.41	3000	4.8	A	A
4.30-5.30 PM	AADT * 2.053	50	47.93	47.93	47.93	47.93	3000	4.8	A	A
4.30-5.30 PM	AADT * 2.053	50	50.45	50.45	50.45	50.45	3000	4.7	A	A
4.30-5.30 PM	AADT * 2.053	50	52.97	52.97	52.97	52.97	3000	4.7	A	A
4.30-5.30 PM	AADT * 2.053	50	55.50	55.50	55.50	55.50	3000	4.7	A	A
4.30-5.30 PM	AADT * 2.053	50	58.02	58.02	58.02	58.02	3000	4.6	A	A
4.30-5.30 PM	AADT * 2.053	50	60.54	60.54	60.54	60.54	3000	4.6	A	A
4.30-5.30 PM	AADT * 2.053	50	63.06	63.06	63.06	63.06	3000	4.5	A	A
4.30-5.30 PM	AADT * 2.053	50	65.59	65.59	65.59	65.59	3000	4.5	A	A
4.30-5.30 PM	AADT * 2.053	50	68.11	68.11	68.11	68.11	3000	4.5	A	A
4.30-5.30 PM	AADT * 2.053	50	70.63	70.63	70.63	70.63	3000	4.5	A	A
4.30-5.30 PM	AADT * 2.053	50	73.15	73.15	73.15	73.15	3000	4.4	A	A
4.30-5.30 PM	AADT * 2.053	50	75.68	75.68	75.68	75.68	3000	4.4	A	A
4.30-5.30 PM	AADT * 2.738	50	25.23	25.23	25.23	25.23	4000	33.9	C	D
4.30-5.30 PM	AADT * 2.738	50	27.75	27.75	27.75	27.75	4000	33.8	C	D
4.30-5.30 PM	AADT * 2.738	50	30.27	30.27	30.27	30.27	4000	33.7	C	D
4.30-5.30 PM	AADT * 2.738	50	32.79	32.79	32.79	32.79	4000	33.5	C	D

4.30-5.30 PM	AADT * 2.738	50	35.32	35.32	35.32	35.32	4000	33.3	C	D
4.30-5.30 PM	AADT * 2.738	50	37.84	37.84	37.84	37.84	4000	33	C	D
4.30-5.30 PM	AADT * 2.738	50	40.36	40.36	40.36	40.36	4000	32.7	C	D
4.30-5.30 PM	AADT * 2.738	50	42.88	42.88	42.88	42.88	4000	32.3	C	D
4.30-5.30 PM	AADT * 2.738	50	45.41	45.41	45.41	45.41	4000	31.9	C	D
4.30-5.30 PM	AADT * 2.738	50	47.93	47.93	47.93	47.93	4000	31.4	C	D
4.30-5.30 PM	AADT * 2.738	50	50.45	50.45	50.45	50.45	4000	30.9	C	D
4.30-5.30 PM	AADT * 2.738	50	52.97	52.97	52.97	52.97	4000	30.3	C	D
4.30-5.30 PM	AADT * 2.738	50	55.50	55.50	55.50	55.50	4000	29.7	C	D
4.30-5.30 PM	AADT * 2.738	50	58.02	58.02	58.02	58.02	4000	29.1	C	D
4.30-5.30 PM	AADT * 2.738	50	60.54	60.54	60.54	60.54	4000	28.5	C	D
4.30-5.30 PM	AADT * 2.738	50	63.06	63.06	63.06	63.06	4000	27.9	C	D
4.30-5.30 PM	AADT * 2.738	50	65.59	65.59	65.59	65.59	4000	27.3	C	D
4.30-5.30 PM	AADT * 2.738	50	68.11	68.11	68.11	68.11	4000	26.8	C	D
4.30-5.30 PM	AADT * 2.738	50	70.63	70.63	70.63	70.63	4000	26.4	C	D
4.30-5.30 PM	AADT * 2.738	50	73.15	73.15	73.15	73.15	4000	26	C	D
4.30-5.30 PM	AADT * 2.738	50	75.68	75.68	75.68	75.68	4000	25.7	C	D
8.30-9.30 AM	AADT * 1	85	25.23	25.23	25.23	25.23	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	27.75	27.75	27.75	27.75	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	30.27	30.27	30.27	30.27	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	32.79	32.79	32.79	32.79	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	35.32	35.32	35.32	35.32	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	37.84	37.84	37.84	37.84	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	40.36	40.36	40.36	40.36	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	42.88	42.88	42.88	42.88	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	45.41	45.41	45.41	45.41	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	47.93	47.93	47.93	47.93	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	50.45	50.45	50.45	50.45	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	52.97	52.97	52.97	52.97	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	55.50	55.50	55.50	55.50	1205	2.8	A	A
8.30-9.30 AM	AADT * 1	85	58.02	58.02	58.02	58.02	1205	2.7	A	A
8.30-9.30 AM	AADT * 1	85	60.54	60.54	60.54	60.54	1205	2.7	A	A
8.30-9.30 AM	AADT * 1	85	63.06	63.06	63.06	63.06	1205	2.7	A	A
8.30-9.30 AM	AADT * 1	85	65.59	65.59	65.59	65.59	1205	2.7	A	A
8.30-9.30 AM	AADT * 1	85	68.11	68.11	68.11	68.11	1205	2.7	A	A
8.30-9.30 AM	AADT * 1	85	70.63	70.63	70.63	70.63	1205	2.7	A	A
8.30-9.30 AM	AADT * 1	85	73.15	73.15	73.15	73.15	1205	2.7	A	A
8.30-9.30 AM	AADT * 1	85	75.68	75.68	75.68	75.68	1205	2.7	A	A
8.30-9.30 AM	AADT * 1.66	85	25.23	25.23	25.23	25.23	2000	4.3	A	A
8.30-9.30 AM	AADT * 1.66	85	27.75	27.75	27.75	27.75	2000	4.3	A	A
8.30-9.30 AM	AADT * 1.66	85	30.27	30.27	30.27	30.27	2000	4.3	A	A
8.30-9.30 AM	AADT * 1.66	85	32.79	32.79	32.79	32.79	2000	4.3	A	A
8.30-9.30 AM	AADT * 1.66	85	35.32	35.32	35.32	35.32	2000	4.3	A	A
8.30-9.30 AM	AADT * 1.66	85	37.84	37.84	37.84	37.84	2000	4.3	A	A
8.30-9.30 AM	AADT * 1.66	85	40.36	40.36	40.36	40.36	2000	4.2	A	A
8.30-9.30 AM	AADT * 1.66	85	42.88	42.88	42.88	42.88	2000	4.2	A	A
8.30-9.30 AM	AADT * 1.66	85	45.41	45.41	45.41	45.41	2000	4.2	A	A
8.30-9.30 AM	AADT * 1.66	85	47.93	47.93	47.93	47.93	2000	4.1	A	A

8.30-9.30 AM	AADT * 1.66	85	50.45	50.45	50.45	50.45	2000	4.1	A	A
8.30-9.30 AM	AADT * 1.66	85	52.97	52.97	52.97	52.97	2000	4	A	A
8.30-9.30 AM	AADT * 1.66	85	55.50	55.50	55.50	55.50	2000	4	A	A
8.30-9.30 AM	AADT * 1.66	85	58.02	58.02	58.02	58.02	2000	4	A	A
8.30-9.30 AM	AADT * 1.66	85	60.54	60.54	60.54	60.54	2000	3.9	A	A
8.30-9.30 AM	AADT * 1.66	85	63.06	63.06	63.06	63.06	2000	3.9	A	A
8.30-9.30 AM	AADT * 1.66	85	65.59	65.59	65.59	65.59	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.66	85	68.11	68.11	68.11	68.11	2000	3.8	A	A
8.30-9.30 AM	AADT * 1.66	85	70.63	70.63	70.63	70.63	2000	3.7	A	A
8.30-9.30 AM	AADT * 1.66	85	73.15	73.15	73.15	73.15	2000	3.7	A	A
8.30-9.30 AM	AADT * 1.66	85	75.68	75.68	75.68	75.68	2000	3.7	A	A
8.30-9.30 AM	AADT * 2.49	85	25.23	25.23	25.23	25.23	3000	39.8	D	E
8.30-9.30 AM	AADT * 2.49	85	27.75	27.75	27.75	27.75	3000	39.1	D	E
8.30-9.30 AM	AADT * 2.49	85	30.27	30.27	30.27	30.27	3000	38.2	D	E
8.30-9.30 AM	AADT * 2.49	85	32.79	32.79	32.79	32.79	3000	37	D	E
8.30-9.30 AM	AADT * 2.49	85	35.32	35.32	35.32	35.32	3000	35.6	D	E
8.30-9.30 AM	AADT * 2.49	85	37.84	37.84	37.84	37.84	3000	33.9	C	D
8.30-9.30 AM	AADT * 2.49	85	40.36	40.36	40.36	40.36	3000	31.9	C	D
8.30-9.30 AM	AADT * 2.49	85	42.88	42.88	42.88	42.88	3000	29.6	C	D
8.30-9.30 AM	AADT * 2.49	85	45.41	45.41	45.41	45.41	3000	27.5	C	D
8.30-9.30 AM	AADT * 2.49	85	47.93	47.93	47.93	47.93	3000	25.2	C	D
8.30-9.30 AM	AADT * 2.49	85	50.45	50.45	50.45	50.45	3000	22.8	C	C
8.30-9.30 AM	AADT * 2.49	85	52.97	52.97	52.97	52.97	3000	20.4	C	C
8.30-9.30 AM	AADT * 2.49	85	55.50	55.50	55.50	55.50	3000	18	B	C
8.30-9.30 AM	AADT * 2.49	85	58.02	58.02	58.02	58.02	3000	15.8	B	C
8.30-9.30 AM	AADT * 2.49	85	60.54	60.54	60.54	60.54	3000	14	B	B
8.30-9.30 AM	AADT * 2.49	85	63.06	63.06	63.06	63.06	3000	12.4	B	B
8.30-9.30 AM	AADT * 2.49	85	65.59	65.59	65.59	65.59	3000	11.2	B	B
8.30-9.30 AM	AADT * 2.49	85	68.11	68.11	68.11	68.11	3000	10.3	B	B
8.30-9.30 AM	AADT * 2.49	85	70.63	70.63	70.63	70.63	3000	9.6	A	A
8.30-9.30 AM	AADT * 2.49	85	73.15	73.15	73.15	73.15	3000	9.1	A	A
8.30-9.30 AM	AADT * 2.49	85	75.68	75.68	75.68	75.68	3000	8.7	A	A
8.30-9.30 AM	AADT * 3.32	85	25.23	25.23	25.23	25.23	4000	250.4	F	F
8.30-9.30 AM	AADT * 3.32	85	27.75	27.75	27.75	27.75	4000	248.5	F	F
8.30-9.30 AM	AADT * 3.32	85	30.27	30.27	30.27	30.27	4000	246.2	F	F
8.30-9.30 AM	AADT * 3.32	85	32.79	32.79	32.79	32.79	4000	243.3	F	F
8.30-9.30 AM	AADT * 3.32	85	35.32	35.32	35.32	35.32	4000	239.6	F	F
8.30-9.30 AM	AADT * 3.32	85	37.84	37.84	37.84	37.84	4000	235.2	F	F
8.30-9.30 AM	AADT * 3.32	85	40.36	40.36	40.36	40.36	4000	229.8	F	F
8.30-9.30 AM	AADT * 3.32	85	42.88	42.88	42.88	42.88	4000	223.3	F	F
8.30-9.30 AM	AADT * 3.32	85	45.41	45.41	45.41	45.41	4000	215.8	F	F
8.30-9.30 AM	AADT * 3.32	85	47.93	47.93	47.93	47.93	4000	207.1	F	F
8.30-9.30 AM	AADT * 3.32	85	50.45	50.45	50.45	50.45	4000	197.2	F	F
8.30-9.30 AM	AADT * 3.32	85	52.97	52.97	52.97	52.97	4000	186.4	F	F
8.30-9.30 AM	AADT * 3.32	85	55.50	55.50	55.50	55.50	4000	174.8	F	F
8.30-9.30 AM	AADT * 3.32	85	58.02	58.02	58.02	58.02	4000	162.8	F	F
8.30-9.30 AM	AADT * 3.32	85	60.54	60.54	60.54	60.54	4000	150.8	F	F
8.30-9.30 AM	AADT * 3.32	85	63.06	63.06	63.06	63.06	4000	139.2	F	F

8.30-9.30 AM	AADT * 3.32	85	65.59	65.59	65.59	65.59	4000	128.3	F	F
8.30-9.30 AM	AADT * 3.32	85	68.11	68.11	68.11	68.11	4000	118.8	F	F
8.30-9.30 AM	AADT * 3.32	85	70.63	70.63	70.63	70.63	4000	111	F	F
8.30-9.30 AM	AADT * 3.32	85	73.15	73.15	73.15	73.15	4000	104.4	F	F
8.30-9.30 AM	AADT * 3.32	85	75.68	75.68	75.68	75.68	4000	99	F	F
12.30-1.30 PM	AADT * 1	85	25.23	25.23	25.23	25.23	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	27.75	27.75	27.75	27.75	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	30.27	30.27	30.27	30.27	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	32.79	32.79	32.79	32.79	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	35.32	35.32	35.32	35.32	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	37.84	37.84	37.84	37.84	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	40.36	40.36	40.36	40.36	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	42.88	42.88	42.88	42.88	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	45.41	45.41	45.41	45.41	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	47.93	47.93	47.93	47.93	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	50.45	50.45	50.45	50.45	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	52.97	52.97	52.97	52.97	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	55.50	55.50	55.50	55.50	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	58.02	58.02	58.02	58.02	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	60.54	60.54	60.54	60.54	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	63.06	63.06	63.06	63.06	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	65.59	65.59	65.59	65.59	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	68.11	68.11	68.11	68.11	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	70.63	70.63	70.63	70.63	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	73.15	73.15	73.15	73.15	575	2.2	A	A
12.30-1.30 PM	AADT * 1	85	75.68	75.68	75.68	75.68	575	2.2	A	A
12.30-1.30 PM	AADT * 3.478	85	25.23	25.23	25.23	25.23	2000	3.9	A	A
12.30-1.30 PM	AADT * 3.478	85	27.75	27.75	27.75	27.75	2000	3.9	A	A
12.30-1.30 PM	AADT * 3.478	85	30.27	30.27	30.27	30.27	2000	3.9	A	A
12.30-1.30 PM	AADT * 3.478	85	32.79	32.79	32.79	32.79	2000	3.9	A	A
12.30-1.30 PM	AADT * 3.478	85	35.32	35.32	35.32	35.32	2000	3.9	A	A
12.30-1.30 PM	AADT * 3.478	85	37.84	37.84	37.84	37.84	2000	3.9	A	A
12.30-1.30 PM	AADT * 3.478	85	40.36	40.36	40.36	40.36	2000	3.9	A	A
12.30-1.30 PM	AADT * 3.478	85	42.88	42.88	42.88	42.88	2000	3.9	A	A
12.30-1.30 PM	AADT * 3.478	85	45.41	45.41	45.41	45.41	2000	3.9	A	A
12.30-1.30 PM	AADT * 3.478	85	47.93	47.93	47.93	47.93	2000	3.8	A	A
12.30-1.30 PM	AADT * 3.478	85	50.45	50.45	50.45	50.45	2000	3.8	A	A
12.30-1.30 PM	AADT * 3.478	85	52.97	52.97	52.97	52.97	2000	3.8	A	A
12.30-1.30 PM	AADT * 3.478	85	55.50	55.50	55.50	55.50	2000	3.7	A	A
12.30-1.30 PM	AADT * 3.478	85	58.02	58.02	58.02	58.02	2000	3.7	A	A
12.30-1.30 PM	AADT * 3.478	85	60.54	60.54	60.54	60.54	2000	3.7	A	A
12.30-1.30 PM	AADT * 3.478	85	63.06	63.06	63.06	63.06	2000	3.7	A	A
12.30-1.30 PM	AADT * 3.478	85	65.59	65.59	65.59	65.59	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	68.11	68.11	68.11	68.11	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	70.63	70.63	70.63	70.63	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	73.15	73.15	73.15	73.15	2000	3.6	A	A
12.30-1.30 PM	AADT * 3.478	85	75.68	75.68	75.68	75.68	2000	3.5	A	A
12.30-1.30 PM	AADT * 5.217	85	25.23	25.23	25.23	25.23	3000	11.2	B	B

12.30-1.30 PM	AADT * 5.217	85	27.75	27.75	27.75	27.75	3000	11.1	B	B
12.30-1.30 PM	AADT * 5.217	85	30.27	30.27	30.27	30.27	3000	11	B	B
12.30-1.30 PM	AADT * 5.217	85	32.79	32.79	32.79	32.79	3000	10.8	B	B
12.30-1.30 PM	AADT * 5.217	85	35.32	35.32	35.32	35.32	3000	10.6	B	B
12.30-1.30 PM	AADT * 5.217	85	37.84	37.84	37.84	37.84	3000	10.3	B	B
12.30-1.30 PM	AADT * 5.217	85	40.36	40.36	40.36	40.36	3000	10	B	B
12.30-1.30 PM	AADT * 5.217	85	42.88	42.88	42.88	42.88	3000	9.7	A	A
12.30-1.30 PM	AADT * 5.217	85	45.41	45.41	45.41	45.41	3000	9.4	A	A
12.30-1.30 PM	AADT * 5.217	85	47.93	47.93	47.93	47.93	3000	9	A	A
12.30-1.30 PM	AADT * 5.217	85	50.45	50.45	50.45	50.45	3000	8.7	A	A
12.30-1.30 PM	AADT * 5.217	85	52.97	52.97	52.97	52.97	3000	8.3	A	A
12.30-1.30 PM	AADT * 5.217	85	55.50	55.50	55.50	55.50	3000	8	A	A
12.30-1.30 PM	AADT * 5.217	85	58.02	58.02	58.02	58.02	3000	7.7	A	A
12.30-1.30 PM	AADT * 5.217	85	60.54	60.54	60.54	60.54	3000	7.5	A	A
12.30-1.30 PM	AADT * 5.217	85	63.06	63.06	63.06	63.06	3000	7.2	A	A
12.30-1.30 PM	AADT * 5.217	85	65.59	65.59	65.59	65.59	3000	7	A	A
12.30-1.30 PM	AADT * 5.217	85	68.11	68.11	68.11	68.11	3000	6.9	A	A
12.30-1.30 PM	AADT * 5.217	85	70.63	70.63	70.63	70.63	3000	6.7	A	A
12.30-1.30 PM	AADT * 5.217	85	73.15	73.15	73.15	73.15	3000	6.6	A	A
12.30-1.30 PM	AADT * 5.217	85	75.68	75.68	75.68	75.68	3000	6.5	A	A
12.30-1.30 PM	AADT *6.956	85	25.23	25.23	25.23	25.23	4000	142.3	F	F
12.30-1.30 PM	AADT *6.956	85	27.75	27.75	27.75	27.75	4000	140.9	F	F
12.30-1.30 PM	AADT *6.956	85	30.27	30.27	30.27	30.27	4000	139.2	F	F
12.30-1.30 PM	AADT *6.956	85	32.79	32.79	32.79	32.79	4000	137.1	F	F
12.30-1.30 PM	AADT *6.956	85	35.32	35.32	35.32	35.32	4000	134.6	F	F
12.30-1.30 PM	AADT *6.956	85	37.84	37.84	37.84	37.84	4000	131.5	F	F
12.30-1.30 PM	AADT *6.956	85	40.36	40.36	40.36	40.36	4000	127.8	F	F
12.30-1.30 PM	AADT *6.956	85	42.88	42.88	42.88	42.88	4000	123.3	F	F
12.30-1.30 PM	AADT *6.956	85	45.41	45.41	45.41	45.41	4000	118.2	F	F
12.30-1.30 PM	AADT *6.956	85	47.93	47.93	47.93	47.93	4000	112.3	F	F
12.30-1.30 PM	AADT *6.956	85	50.45	50.45	50.45	50.45	4000	105.8	F	F
12.30-1.30 PM	AADT *6.956	85	52.97	52.97	52.97	52.97	4000	98.9	F	F
12.30-1.30 PM	AADT *6.956	85	55.50	55.50	55.50	55.50	4000	91.7	F	F
12.30-1.30 PM	AADT *6.956	85	58.02	58.02	58.02	58.02	4000	84.6	F	F
12.30-1.30 PM	AADT *6.956	85	60.54	60.54	60.54	60.54	4000	77.7	E	F
12.30-1.30 PM	AADT *6.956	85	63.06	63.06	63.06	63.06	4000	71.3	E	F
12.30-1.30 PM	AADT *6.956	85	65.59	65.59	65.59	65.59	4000	65.6	E	F
12.30-1.30 PM	AADT *6.956	85	68.11	68.11	68.11	68.11	4000	60.5	E	F
12.30-1.30 PM	AADT *6.956	85	70.63	70.63	70.63	70.63	4000	56.1	E	F
12.30-1.30 PM	AADT *6.956	85	73.15	73.15	73.15	73.15	4000	52.2	D	F
12.30-1.30 PM	AADT *6.956	85	75.68	75.68	75.68	75.68	4000	49	D	E
4.30-5.30 PM	AADT * 1	85	25.23	25.23	25.23	25.23	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	27.75	27.75	27.75	27.75	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	30.27	30.27	30.27	30.27	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	32.79	32.79	32.79	32.79	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	35.32	35.32	35.32	35.32	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	37.84	37.84	37.84	37.84	1461	2.8	A	A
4.30-5.30 PM	AADT * 1	85	40.36	40.36	40.36	40.36	1461	2.8	A	A

4.30-5.30 PM	AADT * 1	85	42.88	42.88	42.88	42.88	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	45.41	45.41	45.41	45.41	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	47.93	47.93	47.93	47.93	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	50.45	50.45	50.45	50.45	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	52.97	52.97	52.97	52.97	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	55.50	55.50	55.50	55.50	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	58.02	58.02	58.02	58.02	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	60.54	60.54	60.54	60.54	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	63.06	63.06	63.06	63.06	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	65.59	65.59	65.59	65.59	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	68.11	68.11	68.11	68.11	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	70.63	70.63	70.63	70.63	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	73.15	73.15	73.15	73.15	1461	2.7	A	A
4.30-5.30 PM	AADT * 1	85	75.68	75.68	75.68	75.68	1461	2.7	A	A
4.30-5.30 PM	AADT * 1.37	85	25.23	25.23	25.23	25.23	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.37	85	27.75	27.75	27.75	27.75	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.37	85	30.27	30.27	30.27	30.27	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.37	85	32.79	32.79	32.79	32.79	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.37	85	35.32	35.32	35.32	35.32	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.37	85	37.84	37.84	37.84	37.84	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.37	85	40.36	40.36	40.36	40.36	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.37	85	42.88	42.88	42.88	42.88	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	45.41	45.41	45.41	45.41	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	47.93	47.93	47.93	47.93	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	50.45	50.45	50.45	50.45	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	52.97	52.97	52.97	52.97	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	55.50	55.50	55.50	55.50	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	58.02	58.02	58.02	58.02	2000	3.4	A	A
4.30-5.30 PM	AADT * 1.37	85	60.54	60.54	60.54	60.54	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.37	85	63.06	63.06	63.06	63.06	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.37	85	65.59	65.59	65.59	65.59	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.37	85	68.11	68.11	68.11	68.11	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.37	85	70.63	70.63	70.63	70.63	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.37	85	73.15	73.15	73.15	73.15	2000	3.3	A	A
4.30-5.30 PM	AADT * 1.37	85	75.68	75.68	75.68	75.68	2000	3.3	A	A
4.30-5.30 PM	AADT * 2.053	85	25.23	25.23	25.23	25.23	3000	7.4	A	A
4.30-5.30 PM	AADT * 2.053	85	27.75	27.75	27.75	27.75	3000	7.4	A	A
4.30-5.30 PM	AADT * 2.053	85	30.27	30.27	30.27	30.27	3000	7.4	A	A
4.30-5.30 PM	AADT * 2.053	85	32.79	32.79	32.79	32.79	3000	7.4	A	A
4.30-5.30 PM	AADT * 2.053	85	35.32	35.32	35.32	35.32	3000	7.3	A	A
4.30-5.30 PM	AADT * 2.053	85	37.84	37.84	37.84	37.84	3000	7.3	A	A
4.30-5.30 PM	AADT * 2.053	85	40.36	40.36	40.36	40.36	3000	7.2	A	A
4.30-5.30 PM	AADT * 2.053	85	42.88	42.88	42.88	42.88	3000	7.2	A	A
4.30-5.30 PM	AADT * 2.053	85	45.41	45.41	45.41	45.41	3000	7.1	A	A
4.30-5.30 PM	AADT * 2.053	85	47.93	47.93	47.93	47.93	3000	7	A	A
4.30-5.30 PM	AADT * 2.053	85	50.45	50.45	50.45	50.45	3000	7	A	A
4.30-5.30 PM	AADT * 2.053	85	52.97	52.97	52.97	52.97	3000	6.9	A	A
4.30-5.30 PM	AADT * 2.053	85	55.50	55.50	55.50	55.50	3000	6.8	A	A

4.30-5.30 PM	AADT * 2.053	85	58.02	58.02	58.02	58.02	3000	6.7	A	A
4.30-5.30 PM	AADT * 2.053	85	60.54	60.54	60.54	60.54	3000	6.6	A	A
4.30-5.30 PM	AADT * 2.053	85	63.06	63.06	63.06	63.06	3000	6.5	A	A
4.30-5.30 PM	AADT * 2.053	85	65.59	65.59	65.59	65.59	3000	6.4	A	A
4.30-5.30 PM	AADT * 2.053	85	68.11	68.11	68.11	68.11	3000	6.4	A	A
4.30-5.30 PM	AADT * 2.053	85	70.63	70.63	70.63	70.63	3000	6.3	A	A
4.30-5.30 PM	AADT * 2.053	85	73.15	73.15	73.15	73.15	3000	6.3	A	A
4.30-5.30 PM	AADT * 2.053	85	75.68	75.68	75.68	75.68	3000	6.2	A	A
4.30-5.30 PM	AADT * 2.738	85	25.23	25.23	25.23	25.23	4000	96.1	F	F
4.30-5.30 PM	AADT * 2.738	85	27.75	27.75	27.75	27.75	4000	95.6	F	F
4.30-5.30 PM	AADT * 2.738	85	30.27	30.27	30.27	30.27	4000	94.9	F	F
4.30-5.30 PM	AADT * 2.738	85	32.79	32.79	32.79	32.79	4000	94.1	F	F
4.30-5.30 PM	AADT * 2.738	85	35.32	35.32	35.32	35.32	4000	93.1	F	F
4.30-5.30 PM	AADT * 2.738	85	37.84	37.84	37.84	37.84	4000	91.9	F	F
4.30-5.30 PM	AADT * 2.738	85	40.36	40.36	40.36	40.36	4000	90.6	F	F
4.30-5.30 PM	AADT * 2.738	85	42.88	42.88	42.88	42.88	4000	89.1	F	F
4.30-5.30 PM	AADT * 2.738	85	45.41	45.41	45.41	45.41	4000	87.5	F	F
4.30-5.30 PM	AADT * 2.738	85	47.93	47.93	47.93	47.93	4000	85.9	F	F
4.30-5.30 PM	AADT * 2.738	85	50.45	50.45	50.45	50.45	4000	84.2	F	F
4.30-5.30 PM	AADT * 2.738	85	52.97	52.97	52.97	52.97	4000	82.6	F	F
4.30-5.30 PM	AADT * 2.738	85	55.50	55.50	55.50	55.50	4000	81	F	F
4.30-5.30 PM	AADT * 2.738	85	58.02	58.02	58.02	58.02	4000	79.5	E	F
4.30-5.30 PM	AADT * 2.738	85	60.54	60.54	60.54	60.54	4000	78.1	E	F
4.30-5.30 PM	AADT * 2.738	85	63.06	63.06	63.06	63.06	4000	76.8	E	F
4.30-5.30 PM	AADT * 2.738	85	65.59	65.59	65.59	65.59	4000	75.6	E	F
4.30-5.30 PM	AADT * 2.738	85	68.11	68.11	68.11	68.11	4000	74.6	E	F
4.30-5.30 PM	AADT * 2.738	85	70.63	70.63	70.63	70.63	4000	73.6	E	F
4.30-5.30 PM	AADT * 2.738	85	73.15	73.15	73.15	73.15	4000	72.8	E	F
4.30-5.30 PM	AADT * 2.738	85	75.68	75.68	75.68	75.68	4000	72.1	E	F

Half Width for Congestoga/Can-Amera Roundabout

Timeframe	AADT Assumptions	CL	HALF A WIDTH- CONGESTOGA	HALF A WIDTH - CAN AMERA EAST	HALF A WIDTH - CAN AMERA WEST	AADT	AVERAGE DELAY	LOS SIG	LOS UNSIG
8.30-9.30 AM	AADT * 1	50	2.52	3.93	2.06	841	2.6	A	A
8.30-9.30 AM	AADT * 1	50	2.75	4.29	2.25	841	2.6	A	A
8.30-9.30 AM	AADT * 1	50	2.98	4.65	2.44	841	2.5	A	A
8.30-9.30 AM	AADT * 1	50	3.21	5.01	2.63	841	2.4	A	A
8.30-9.30 AM	AADT * 1	50	3.44	5.36	2.81	841	2.4	A	A
8.30-9.30 AM	AADT * 1	50	3.67	5.72	3.00	841	2.3	A	A
8.30-9.30 AM	AADT * 1	50	3.90	6.08	3.19	841	2.3	A	A
8.30-9.30 AM	AADT * 1	50	4.13	6.44	3.38	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	4.36	6.79	3.56	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	4.59	7.15	3.75	841	2.2	A	A
8.30-9.30 AM	AADT * 2.378	50	2.52	3.93	2.06	2000	9.1	A	A
8.30-9.30 AM	AADT * 2.378	50	2.75	4.29	2.25	2000	8.3	A	A
8.30-9.30 AM	AADT * 2.378	50	2.98	4.65	2.44	2000	7.6	A	A
8.30-9.30 AM	AADT * 2.378	50	3.21	5.01	2.63	2000	7.1	A	A
8.30-9.30 AM	AADT * 2.378	50	3.44	5.36	2.81	2000	6.6	A	A
8.30-9.30 AM	AADT * 2.378	50	3.67	5.72	3.00	2000	6.2	A	A
8.30-9.30 AM	AADT * 2.378	50	3.90	6.08	3.19	2000	5.9	A	A
8.30-9.30 AM	AADT * 2.378	50	4.13	6.44	3.38	2000	5.6	A	A
8.30-9.30 AM	AADT * 2.378	50	4.36	6.79	3.56	2000	5.3	A	A
8.30-9.30 AM	AADT * 2.378	50	4.59	7.15	3.75	2000	5.1	A	A
8.30-9.30 AM	AADT * 3.567	50	2.52	3.93	2.06	3000	294.5	F	F
8.30-9.30 AM	AADT * 3.567	50	2.75	4.29	2.25	3000	280	F	F
8.30-9.30 AM	AADT * 3.567	50	2.98	4.65	2.44	3000	266.1	F	F
8.30-9.30 AM	AADT * 3.567	50	3.21	5.01	2.63	3000	252.8	F	F
8.30-9.30 AM	AADT * 3.567	50	3.44	5.36	2.81	3000	240.6	F	F
8.30-9.30 AM	AADT * 3.567	50	3.67	5.72	3.00	3000	228.3	F	F
8.30-9.30 AM	AADT * 3.567	50	3.90	6.08	3.19	3000	216.6	F	F
8.30-9.30 AM	AADT * 3.567	50	4.13	6.44	3.38	3000	205.4	F	F
8.30-9.30 AM	AADT * 3.567	50	4.36	6.79	3.56	3000	195.4	F	F
8.30-9.30 AM	AADT * 3.567	50	4.59	7.15	3.75	3000	185.4	F	F
8.30-9.30 AM	AADT * 4.756	50	2.52	3.93	2.06	4000	678.1	F	F
8.30-9.30 AM	AADT * 4.756	50	2.75	4.29	2.25	4000	662.1	F	F
8.30-9.30 AM	AADT * 4.756	50	2.98	4.65	2.44	4000	647.1	F	F
8.30-9.30 AM	AADT * 4.756	50	3.21	5.01	2.63	4000	632.8	F	F
8.30-9.30 AM	AADT * 4.756	50	3.44	5.36	2.81	4000	619.7	F	F
8.30-9.30 AM	AADT * 4.756	50	3.67	5.72	3.00	4000	606.3	F	F
8.30-9.30 AM	AADT * 4.756	50	3.90	6.08	3.19	4000	593.2	F	F
8.30-9.30 AM	AADT * 4.756	50	4.13	6.44	3.38	4000	580.5	F	F
8.30-9.30 AM	AADT * 4.756	50	4.36	6.79	3.56	4000	568.8	F	F
8.30-9.30 AM	AADT * 4.756	50	4.59	7.15	3.75	4000	556.8	F	F
12.30-1.30 PM	AADT * 1	50	2.52	3.93	2.06	1096	3.5	A	A
12.30-1.30 PM	AADT * 1	50	2.75	4.29	2.25	1096	3.3	A	A

12.30-1.30 PM	AADT * 1	50	2.98	4.65	2.44	1096	3.2	A	A
12.30-1.30 PM	AADT * 1	50	3.21	5.01	2.63	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	50	3.44	5.36	2.81	1096	3	A	A
12.30-1.30 PM	AADT * 1	50	3.67	5.72	3.00	1096	2.9	A	A
12.30-1.30 PM	AADT * 1	50	3.90	6.08	3.19	1096	2.8	A	A
12.30-1.30 PM	AADT * 1	50	4.13	6.44	3.38	1096	2.7	A	A
12.30-1.30 PM	AADT * 1	50	4.36	6.79	3.56	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	4.59	7.15	3.75	1096	2.6	A	A
12.30-1.30 PM	AADT * 1.82	50	2.52	3.93	2.06	2000	8.7	A	A
12.30-1.30 PM	AADT * 1.82	50	2.75	4.29	2.25	2000	7.8	A	A
12.30-1.30 PM	AADT * 1.82	50	2.98	4.65	2.44	2000	7.1	A	A
12.30-1.30 PM	AADT * 1.82	50	3.21	5.01	2.63	2000	6.5	A	A
12.30-1.30 PM	AADT * 1.82	50	3.44	5.36	2.81	2000	6	A	A
12.30-1.30 PM	AADT * 1.82	50	3.67	5.72	3.00	2000	5.7	A	A
12.30-1.30 PM	AADT * 1.82	50	3.90	6.08	3.19	2000	5.3	A	A
12.30-1.30 PM	AADT * 1.82	50	4.13	6.44	3.38	2000	5.1	A	A
12.30-1.30 PM	AADT * 1.82	50	4.36	6.79	3.56	2000	4.8	A	A
12.30-1.30 PM	AADT * 1.82	50	4.59	7.15	3.75	2000	4.6	A	A
12.30-1.30 PM	AADT * 2.737	50	2.52	3.93	2.06	3000	223.4	F	F
12.30-1.30 PM	AADT * 2.737	50	2.75	4.29	2.25	3000	199.1	F	F
12.30-1.30 PM	AADT * 2.737	50	2.98	4.65	2.44	3000	177.7	F	F
12.30-1.30 PM	AADT * 2.737	50	3.21	5.01	2.63	3000	158.8	F	F
12.30-1.30 PM	AADT * 2.737	50	3.44	5.36	2.81	3000	142.1	F	F
12.30-1.30 PM	AADT * 2.737	50	3.67	5.72	3.00	3000	126.8	F	F
12.30-1.30 PM	AADT * 2.737	50	3.90	6.08	3.19	3000	112.8	F	F
12.30-1.30 PM	AADT * 2.737	50	4.13	6.44	3.38	3000	100.6	F	F
12.30-1.30 PM	AADT * 2.737	50	4.36	6.79	3.56	3000	90.9	F	F
12.30-1.30 PM	AADT * 2.737	50	4.59	7.15	3.75	3000	82.1	F	F
12.30-1.30 PM	AADT * 3.65	50	2.52	3.93	2.06	4000	657.5	F	F
12.30-1.30 PM	AADT * 3.65	50	2.75	4.29	2.25	4000	627.4	F	F
12.30-1.30 PM	AADT * 3.65	50	2.98	4.65	2.44	4000	598.4	F	F
12.30-1.30 PM	AADT * 3.65	50	3.21	5.01	2.63	4000	570.7	F	F
12.30-1.30 PM	AADT * 3.65	50	3.44	5.36	2.81	4000	545	F	F
12.30-1.30 PM	AADT * 3.65	50	3.67	5.72	3.00	4000	520.4	F	F
12.30-1.30 PM	AADT * 3.65	50	3.90	6.08	3.19	4000	497.6	F	F
12.30-1.30 PM	AADT * 3.65	50	4.13	6.44	3.38	4000	476.6	F	F
12.30-1.30 PM	AADT * 3.65	50	4.36	6.79	3.56	4000	457.5	F	F
12.30-1.30 PM	AADT * 3.65	50	4.59	7.15	3.75	4000	439.2	F	F
4.30-5.30 PM	AADT * 1	50	2.52	3.93	2.06	1631	5.7	A	A
4.30-5.30 PM	AADT * 1	50	2.75	4.29	2.25	1631	5.2	A	A
4.30-5.30 PM	AADT * 1	50	2.98	4.65	2.44	1631	4.9	A	A
4.30-5.30 PM	AADT * 1	50	3.21	5.01	2.63	1631	4.6	A	A
4.30-5.30 PM	AADT * 1	50	3.44	5.36	2.81	1631	4.3	A	A
4.30-5.30 PM	AADT * 1	50	3.67	5.72	3.00	1631	4.1	A	A
4.30-5.30 PM	AADT * 1	50	3.90	6.08	3.19	1631	3.9	A	A
4.30-5.30 PM	AADT * 1	50	4.13	6.44	3.38	1631	3.8	A	A
4.30-5.30 PM	AADT * 1	50	4.36	6.79	3.56	1631	3.6	A	A
4.30-5.30 PM	AADT * 1	50	4.59	7.15	3.75	1631	3.5	A	A

4.30-5.30 PM	AADT * 1.226	50	2.52	3.93	2.06	2000	10.7	B	B
4.30-5.30 PM	AADT * 1.226	50	2.75	4.29	2.25	2000	9.1	A	A
4.30-5.30 PM	AADT * 1.226	50	2.98	4.65	2.44	2000	8	A	A
4.30-5.30 PM	AADT * 1.226	50	3.21	5.01	2.63	2000	7.1	A	A
4.30-5.30 PM	AADT * 1.226	50	3.44	5.36	2.81	2000	6.5	A	A
4.30-5.30 PM	AADT * 1.226	50	3.67	5.72	3.00	2000	6	A	A
4.30-5.30 PM	AADT * 1.226	50	3.90	6.08	3.19	2000	5.6	A	A
4.30-5.30 PM	AADT * 1.226	50	4.13	6.44	3.38	2000	5.3	A	A
4.30-5.30 PM	AADT * 1.226	50	4.36	6.79	3.56	2000	5	A	A
4.30-5.30 PM	AADT * 1.226	50	4.59	7.15	3.75	2000	4.8	A	A
4.30-5.30 PM	AADT * 1.84	50	2.52	3.93	2.06	3000	241.1	F	F
4.30-5.30 PM	AADT * 1.84	50	2.75	4.29	2.25	3000	212.8	F	F
4.30-5.30 PM	AADT * 1.84	50	2.98	4.65	2.44	3000	186.7	F	F
4.30-5.30 PM	AADT * 1.84	50	3.21	5.01	2.63	3000	163.2	F	F
4.30-5.30 PM	AADT * 1.84	50	3.44	5.36	2.81	3000	142.5	F	F
4.30-5.30 PM	AADT * 1.84	50	3.67	5.72	3.00	3000	124.3	F	F
4.30-5.30 PM	AADT * 1.84	50	3.90	6.08	3.19	3000	107.9	F	F
4.30-5.30 PM	AADT * 1.84	50	4.13	6.44	3.38	3000	93.1	F	F
4.30-5.30 PM	AADT * 1.84	50	4.36	6.79	3.56	3000	79.7	E	F
4.30-5.30 PM	AADT * 1.84	50	4.59	7.15	3.75	3000	67.4	E	F
4.30-5.30 PM	AADT * 2.452	50	2.52	3.93	2.06	4000	647.1	F	F
4.30-5.30 PM	AADT * 2.452	50	2.75	4.29	2.25	4000	615.8	F	F
4.30-5.30 PM	AADT * 2.452	50	2.98	4.65	2.44	4000	585.4	F	F
4.30-5.30 PM	AADT * 2.452	50	3.21	5.01	2.63	4000	556	F	F
4.30-5.30 PM	AADT * 2.452	50	3.44	5.36	2.81	4000	528.1	F	F
4.30-5.30 PM	AADT * 2.452	50	3.67	5.72	3.00	4000	501.1	F	F
4.30-5.30 PM	AADT * 2.452	50	3.90	6.08	3.19	4000	475.5	F	F
4.30-5.30 PM	AADT * 2.452	50	4.13	6.44	3.38	4000	451.5	F	F
4.30-5.30 PM	AADT * 2.452	50	4.36	6.79	3.56	4000	429.8	F	F
4.30-5.30 PM	AADT * 2.452	50	4.59	7.15	3.75	4000	409.3	F	F
8.30-9.30 AM	AADT * 1	85	2.52	3.93	2.06	841	3.2	A	A
8.30-9.30 AM	AADT * 1	85	2.75	4.29	2.25	841	3	A	A
8.30-9.30 AM	AADT * 1	85	2.98	4.65	2.44	841	3	A	A
8.30-9.30 AM	AADT * 1	85	3.21	5.01	2.63	841	2.9	A	A
8.30-9.30 AM	AADT * 1	85	3.44	5.36	2.81	841	2.8	A	A
8.30-9.30 AM	AADT * 1	85	3.67	5.72	3.00	841	2.7	A	A
8.30-9.30 AM	AADT * 1	85	3.90	6.08	3.19	841	2.7	A	A
8.30-9.30 AM	AADT * 1	85	4.13	6.44	3.38	841	2.6	A	A
8.30-9.30 AM	AADT * 1	85	4.36	6.79	3.56	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	4.59	7.15	3.75	841	2.5	A	A
8.30-9.30 AM	AADT * 2.378	85	2.52	3.93	2.06	2000	32.6	C	D
8.30-9.30 AM	AADT * 2.378	85	2.75	4.29	2.25	2000	20.4	C	C
8.30-9.30 AM	AADT * 2.378	85	2.98	4.65	2.44	2000	21.9	C	C
8.30-9.30 AM	AADT * 2.378	85	3.21	5.01	2.63	2000	18.2	B	C
8.30-9.30 AM	AADT * 2.378	85	3.44	5.36	2.81	2000	15.5	B	C
8.30-9.30 AM	AADT * 2.378	85	3.67	5.72	3.00	2000	13.4	B	B
8.30-9.30 AM	AADT * 2.378	85	3.90	6.08	3.19	2000	11.7	B	B
8.30-9.30 AM	AADT * 2.378	85	4.13	6.44	3.38	2000	10.5	B	B

8.30-9.30 AM	AADT * 2.378	85	4.36	6.79	3.56	2000	9.6	A	A
8.30-9.30 AM	AADT * 2.378	85	4.59	7.15	3.75	2000	8.8	A	A
8.30-9.30 AM	AADT * 3.567	85	2.52	3.93	2.06	3000	443.4	F	F
8.30-9.30 AM	AADT * 3.567	85	2.75	4.29	2.25	3000	423.8	F	F
8.30-9.30 AM	AADT * 3.567	85	2.98	4.65	2.44	3000	405.3	F	F
8.30-9.30 AM	AADT * 3.567	85	3.21	5.01	2.63	3000	387.7	F	F
8.30-9.30 AM	AADT * 3.567	85	3.44	5.36	2.81	3000	372	F	F
8.30-9.30 AM	AADT * 3.567	85	3.67	5.72	3.00	3000	356.4	F	F
8.30-9.30 AM	AADT * 3.567	85	3.90	6.08	3.19	3000	341.7	F	F
8.30-9.30 AM	AADT * 3.567	85	4.13	6.44	3.38	3000	327.7	F	F
8.30-9.30 AM	AADT * 3.567	85	4.36	6.79	3.56	3000	315.2	F	F
8.30-9.30 AM	AADT * 3.567	85	4.59	7.15	3.75	3000	302.6	F	F
8.30-9.30 AM	AADT * 4.756	85	2.52	3.93	2.06	4000	835.7	F	F
8.30-9.30 AM	AADT * 4.756	85	2.75	4.29	2.25	4000	814.9	F	F
8.30-9.30 AM	AADT * 4.756	85	2.98	4.65	2.44	4000	794.4	F	F
8.30-9.30 AM	AADT * 4.756	85	3.21	5.01	2.63	4000	775.7	F	F
8.30-9.30 AM	AADT * 4.756	85	3.44	5.36	2.81	4000	760.1	F	F
8.30-9.30 AM	AADT * 4.756	85	3.67	5.72	3.00	4000	745	F	F
8.30-9.30 AM	AADT * 4.756	85	3.90	6.08	3.19	4000	730.8	F	F
8.30-9.30 AM	AADT * 4.756	85	4.13	6.44	3.38	4000	717.4	F	F
8.30-9.30 AM	AADT * 4.756	85	4.36	6.79	3.56	4000	705.2	F	F
8.30-9.30 AM	AADT * 4.756	85	4.59	7.15	3.75	4000	692.8	F	F
12.30-1.30 PM	AADT * 1	85	2.52	3.93	2.06	1096	3.9	A	A
12.30-1.30 PM	AADT * 1	85	2.75	4.29	2.25	1096	3.7	A	A
12.30-1.30 PM	AADT * 1	85	2.98	4.65	2.44	1096	3.6	A	A
12.30-1.30 PM	AADT * 1	85	3.21	5.01	2.63	1096	3.5	A	A
12.30-1.30 PM	AADT * 1	85	3.44	5.36	2.81	1096	3.3	A	A
12.30-1.30 PM	AADT * 1	85	3.67	5.72	3.00	1096	3.2	A	A
12.30-1.30 PM	AADT * 1	85	3.90	6.08	3.19	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	4.13	6.44	3.38	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	4.36	6.79	3.56	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	4.59	7.15	3.75	1096	2.9	A	A
12.30-1.30 PM	AADT * 1.82	85	2.52	3.93	2.06	2000	23.3	C	C
12.30-1.30 PM	AADT * 1.82	85	2.75	4.29	2.25	2000	17.3	B	C
12.30-1.30 PM	AADT * 1.82	85	2.98	4.65	2.44	2000	13.8	B	B
12.30-1.30 PM	AADT * 1.82	85	3.21	5.01	2.63	2000	11.6	B	B
12.30-1.30 PM	AADT * 1.82	85	3.44	5.36	2.81	2000	10.1	B	B
12.30-1.30 PM	AADT * 1.82	85	3.67	5.72	3.00	2000	9.1	A	A
12.30-1.30 PM	AADT * 1.82	85	3.90	6.08	3.19	2000	8.2	A	A
12.30-1.30 PM	AADT * 1.82	85	4.13	6.44	3.38	2000	7.6	A	A
12.30-1.30 PM	AADT * 1.82	85	4.36	6.79	3.56	2000	7	A	A
12.30-1.30 PM	AADT * 1.82	85	4.59	7.15	3.75	2000	6.6	A	A
12.30-1.30 PM	AADT * 2.737	85	2.52	3.93	2.06	3000	402.7	F	F
12.30-1.30 PM	AADT * 2.737	85	2.75	4.29	2.25	3000	368.2	F	F
12.30-1.30 PM	AADT * 2.737	85	2.98	4.65	2.44	3000	337	F	F
12.30-1.30 PM	AADT * 2.737	85	3.21	5.01	2.63	3000	308.6	F	F
12.30-1.30 PM	AADT * 2.737	85	3.44	5.36	2.81	3000	283.2	F	F
12.30-1.30 PM	AADT * 2.737	85	3.67	5.72	3.00	3000	258.9	F	F

12.30-1.30 PM	AADT * 2.737	85	3.90	6.08	3.19	3000	238.1	F	F
12.30-1.30 PM	AADT * 2.737	85	4.13	6.44	3.38	3000	218.8	F	F
12.30-1.30 PM	AADT * 2.737	85	4.36	6.79	3.56	3000	202.7	F	F
12.30-1.30 PM	AADT * 2.737	85	4.59	7.15	3.75	3000	186.9	F	F
12.30-1.30 PM	AADT * 3.65	85	2.52	3.93	2.06	4000	857.9	F	F
12.30-1.30 PM	AADT * 3.65	85	2.75	4.29	2.25	4000	826.7	F	F
12.30-1.30 PM	AADT * 3.65	85	2.98	4.65	2.44	4000	796.4	F	F
12.30-1.30 PM	AADT * 3.65	85	3.21	5.01	2.63	4000	767.1	F	F
12.30-1.30 PM	AADT * 3.65	85	3.44	5.36	2.81	4000	739.3	F	F
12.30-1.30 PM	AADT * 3.65	85	3.67	5.72	3.00	4000	712	F	F
12.30-1.30 PM	AADT * 3.65	85	3.90	6.08	3.19	4000	685.7	F	F
12.30-1.30 PM	AADT * 3.65	85	4.13	6.44	3.38	4000	660.6	F	F
12.30-1.30 PM	AADT * 3.65	85	4.36	6.79	3.56	4000	637.4	F	F
12.30-1.30 PM	AADT * 3.65	85	4.59	7.15	3.75	4000	615.1	F	F
4.30-5.30 PM	AADT * 1	85	2.52	3.93	2.06	1631	9.5	A	A
4.30-5.30 PM	AADT * 1	85	2.75	4.29	2.25	1631	8.2	A	A
4.30-5.30 PM	AADT * 1	85	2.98	4.65	2.44	1631	7.3	A	A
4.30-5.30 PM	AADT * 1	85	3.21	5.01	2.63	1631	6.6	A	A
4.30-5.30 PM	AADT * 1	85	3.44	5.36	2.81	1631	6.1	A	A
4.30-5.30 PM	AADT * 1	85	3.67	5.72	3.00	1631	5.6	A	A
4.30-5.30 PM	AADT * 1	85	3.90	6.08	3.19	1631	5.3	A	A
4.30-5.30 PM	AADT * 1	85	4.13	6.44	3.38	1631	5	A	A
4.30-5.30 PM	AADT * 1	85	4.36	6.79	3.56	1631	4.7	A	A
4.30-5.30 PM	AADT * 1	85	4.59	7.15	3.75	1631	4.5	A	A
4.30-5.30 PM	AADT * 1.226	85	2.52	3.93	2.06	2000	41.9	D	E
4.30-5.30 PM	AADT * 1.226	85	2.75	4.29	2.25	2000	28.9	C	D
4.30-5.30 PM	AADT * 1.226	85	2.98	4.65	2.44	2000	20.4	C	C
4.30-5.30 PM	AADT * 1.226	85	3.21	5.01	2.63	2000	15.3	B	C
4.30-5.30 PM	AADT * 1.226	85	3.44	5.36	2.81	2000	12.3	B	B
4.30-5.30 PM	AADT * 1.226	85	3.67	5.72	3.00	2000	10.4	B	B
4.30-5.30 PM	AADT * 1.226	85	3.90	6.08	3.19	2000	9.2	A	A
4.30-5.30 PM	AADT * 1.226	85	4.13	6.44	3.38	2000	8.2	A	A
4.30-5.30 PM	AADT * 1.226	85	4.36	6.79	3.56	2000	7.5	A	A
4.30-5.30 PM	AADT * 1.226	85	4.59	7.15	3.75	2000	6.9	A	A
4.30-5.30 PM	AADT * 1.84	85	2.52	3.93	2.06	3000	423	F	F
4.30-5.30 PM	AADT * 1.84	85	2.75	4.29	2.25	3000	383.7	F	F
4.30-5.30 PM	AADT * 1.84	85	2.98	4.65	2.44	3000	347.4	F	F
4.30-5.30 PM	AADT * 1.84	85	3.21	5.01	2.63	3000	314.5	F	F
4.30-5.30 PM	AADT * 1.84	85	3.44	5.36	2.81	3000	285.1	F	F
4.30-5.30 PM	AADT * 1.84	85	3.67	5.72	3.00	3000	257.9	F	F
4.30-5.30 PM	AADT * 1.84	85	3.90	6.08	3.19	3000	233	F	F
4.30-5.30 PM	AADT * 1.84	85	4.13	6.44	3.38	3000	210.3	F	F
4.30-5.30 PM	AADT * 1.84	85	4.36	6.79	3.56	3000	190.2	F	F
4.30-5.30 PM	AADT * 1.84	85	4.59	7.15	3.75	3000	172	F	F
4.30-5.30 PM	AADT * 2.452	85	2.52	3.93	2.06	4000	838.5	F	F
4.30-5.30 PM	AADT * 2.452	85	2.75	4.29	2.25	4000	806.1	F	F
4.30-5.30 PM	AADT * 2.452	85	2.98	4.65	2.44	4000	774.6	F	F
4.30-5.30 PM	AADT * 2.452	85	3.21	5.01	2.63	4000	743.9	F	F

4.30-5.30 PM	AADT * 2.452	85	3.44	5.36	2.81	4000	714.7	F	F
4.30-5.30 PM	AADT * 2.452	85	3.67	5.72	3.00	4000	685.9	F	F
4.30-5.30 PM	AADT * 2.452	85	3.90	6.08	3.19	4000	658.2	F	F
4.30-5.30 PM	AADT * 2.452	85	4.13	6.44	3.38	4000	631.6	F	F
4.30-5.30 PM	AADT * 2.452	85	4.36	6.79	3.56	4000	606.5	F	F
4.30-5.30 PM	AADT * 2.452	85	4.59	7.15	3.75	4000	582.3	F	F

Entry Width for Congestoga/Can-Amera Roundabout

Timeframe	AADT Assumptions	CL	ENTRY WIDTH- CONGESTOGA	ENTRY WIDTH -CAN AMERA EAST	ENTRY WIDTH - CAN AMERA WEST	AADT	AVERAGE DELAY	LOS SIG	LOS UNSIG
8.30-9.30 AM	AADT * 1	50	5.87	7.23	7.23	841	2.5	A	A
8.30-9.30 AM	AADT * 1	50	6.21	7.65	7.65	841	2.4	A	A
8.30-9.30 AM	AADT * 1	50	6.56	8.08	8.08	841	2.3	A	A
8.30-9.30 AM	AADT * 1	50	6.90	8.50	8.50	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	7.25	8.93	8.93	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	7.59	9.35	9.35	841	2	A	A
8.30-9.30 AM	AADT * 1	50	7.94	9.78	9.78	841	1.9	A	A
8.30-9.30 AM	AADT * 1	50	8.28	10.20	10.20	841	1.9	A	A
8.30-9.30 AM	AADT * 1	50	8.63	10.63	10.63	841	1.9	A	A
8.30-9.30 AM	AADT * 1	50	8.97	11.05	11.05	841	1.9	A	A
8.30-9.30 AM	AADT * 1	50	9.32	11.48	11.48	841	1.9	A	A
8.30-9.30 AM	AADT * 1	50	9.66	11.90	11.90	841	1.9	A	A
8.30-9.30 AM	AADT * 1	50	10.01	12.33	12.33	841	1.9	A	A
8.30-9.30 AM	AADT * 1	50	10.35	12.75	12.75	841	1.9	A	A
8.30-9.30 AM	AADT * 2.378	50	5.87	7.23	7.23	2000	8.7	A	A
8.30-9.30 AM	AADT * 2.378	50	6.21	7.65	7.65	2000	6.7	A	A
8.30-9.30 AM	AADT * 2.378	50	6.56	8.08	8.08	2000	5.8	A	A
8.30-9.30 AM	AADT * 2.378	50	6.90	8.50	8.50	2000	5.1	A	A
8.30-9.30 AM	AADT * 2.378	50	7.25	8.93	8.93	2000	4.6	A	A
8.30-9.30 AM	AADT * 2.378	50	7.59	9.35	9.35	2000	4.3	A	A
8.30-9.30 AM	AADT * 2.378	50	7.94	9.78	9.78	2000	4.1	A	A
8.30-9.30 AM	AADT * 2.378	50	8.28	10.20	10.20	2000	3.9	A	A
8.30-9.30 AM	AADT * 2.378	50	8.63	10.63	10.63	2000	3.9	A	A
8.30-9.30 AM	AADT * 2.378	50	8.97	11.05	11.05	2000	3.9	A	A
8.30-9.30 AM	AADT * 2.378	50	9.32	11.48	11.48	2000	3.9	A	A
8.30-9.30 AM	AADT * 2.378	50	9.66	11.90	11.90	2000	3.9	A	A
8.30-9.30 AM	AADT * 2.378	50	10.01	12.33	12.33	2000	3.9	A	A
8.30-9.30 AM	AADT * 2.378	50	10.35	12.75	12.75	2000	3.9	A	A
8.30-9.30 AM	AADT * 3.567	50	5.87	7.23	7.23	3000	279.8	F	F
8.30-9.30 AM	AADT * 3.567	50	6.21	7.65	7.65	3000	245	F	F
8.30-9.30 AM	AADT * 3.567	50	6.56	8.08	8.08	3000	213	F	F
8.30-9.30 AM	AADT * 3.567	50	6.90	8.50	8.50	3000	185.4	F	F
8.30-9.30 AM	AADT * 3.567	50	7.25	8.93	8.93	3000	161.3	F	F
8.30-9.30 AM	AADT * 3.567	50	7.59	9.35	9.35	3000	140.9	F	F
8.30-9.30 AM	AADT * 3.567	50	7.94	9.78	9.78	3000	122.8	F	F
8.30-9.30 AM	AADT * 3.567	50	8.28	10.20	10.20	3000	114.2	F	F
8.30-9.30 AM	AADT * 3.567	50	8.63	10.63	10.63	3000	114.2	F	F
8.30-9.30 AM	AADT * 3.567	50	8.97	11.05	11.05	3000	114.1	F	F
8.30-9.30 AM	AADT * 3.567	50	9.32	11.48	11.48	3000	114.4	F	F
8.30-9.30 AM	AADT * 3.567	50	9.66	11.90	11.90	3000	114.1	F	F
8.30-9.30 AM	AADT * 3.567	50	10.01	12.33	12.33	3000	114.1	F	F
8.30-9.30 AM	AADT * 3.567	50	10.35	12.75	12.75	3000	114.1	F	F
8.30-9.30 AM	AADT *4.756	50	5.87	7.23	7.23	4000	659.9	F	F
8.30-9.30 AM	AADT *4.756	50	6.21	7.65	7.65	4000	623.9	F	F

8.30-9.30 AM	AADT *4.756	50	6.56	8.08	8.08	4000	589	F	F
8.30-9.30 AM	AADT *4.756	50	6.90	8.50	8.50	4000	556.8	F	F
8.30-9.30 AM	AADT *4.756	50	7.25	8.93	8.93	4000	525.4	F	F
8.30-9.30 AM	AADT *4.756	50	7.59	9.35	9.35	4000	496.6	F	F
8.30-9.30 AM	AADT *4.756	50	7.94	9.78	9.78	4000	468.8	F	F
8.30-9.30 AM	AADT *4.756	50	8.28	10.20	10.20	4000	455.3	F	F
8.30-9.30 AM	AADT *4.756	50	8.63	10.63	10.63	4000	455.2	F	F
8.30-9.30 AM	AADT *4.756	50	8.97	11.05	11.05	4000	455.1	F	F
8.30-9.30 AM	AADT *4.756	50	9.32	11.48	11.48	4000	455.1	F	F
8.30-9.30 AM	AADT *4.756	50	9.66	11.90	11.90	4000	455.1	F	F
8.30-9.30 AM	AADT *4.756	50	10.01	12.33	12.33	4000	455.1	F	F
8.30-9.30 AM	AADT *4.756	50	10.35	12.75	12.75	4000	455.1	F	F
12.30-1.30 PM	AADT * 1	50	5.87	7.23	7.23	1096	3	A	A
12.30-1.30 PM	AADT * 1	50	6.21	7.65	7.65	1096	2.8	A	A
12.30-1.30 PM	AADT * 1	50	6.56	8.08	8.08	1096	2.7	A	A
12.30-1.30 PM	AADT * 1	50	6.90	8.50	8.50	1096	2.7	A	A
12.30-1.30 PM	AADT * 1	50	7.25	8.93	8.93	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	7.59	9.35	9.35	1096	2.4	A	A
12.30-1.30 PM	AADT * 1	50	7.94	9.78	9.78	1096	2.3	A	A
12.30-1.30 PM	AADT * 1	50	8.28	10.20	10.20	1096	2.3	A	A
12.30-1.30 PM	AADT * 1	50	8.63	10.63	10.63	1096	2.2	A	A
12.30-1.30 PM	AADT * 1	50	8.97	11.05	11.05	1096	2.2	A	A
12.30-1.30 PM	AADT * 1	50	9.32	11.48	11.48	1096	2.2	A	A
12.30-1.30 PM	AADT * 1	50	9.66	11.90	11.90	1096	2.2	A	A
12.30-1.30 PM	AADT * 1	50	10.01	12.33	12.33	1096	2.1	A	A
12.30-1.30 PM	AADT * 1	50	10.35	12.75	12.75	1096	2.1	A	A
12.30-1.30 PM	AADT * 1.82	50	5.87	7.23	7.23	2000	6.1	A	A
12.30-1.30 PM	AADT * 1.82	50	6.21	7.65	7.65	2000	5.5	A	A
12.30-1.30 PM	AADT * 1.82	50	6.56	8.08	8.08	2000	5	A	A
12.30-1.30 PM	AADT * 1.82	50	6.90	8.50	8.50	2000	4.6	A	A
12.30-1.30 PM	AADT * 1.82	50	7.25	8.93	8.93	2000	4.3	A	A
12.30-1.30 PM	AADT * 1.82	50	7.59	9.35	9.35	2000	4.1	A	A
12.30-1.30 PM	AADT * 1.82	50	7.94	9.78	9.78	2000	3.9	A	A
12.30-1.30 PM	AADT * 1.82	50	8.28	10.20	10.20	2000	3.7	A	A
12.30-1.30 PM	AADT * 1.82	50	8.63	10.63	10.63	2000	3.7	A	A
12.30-1.30 PM	AADT * 1.82	50	8.97	11.05	11.05	2000	3.6	A	A
12.30-1.30 PM	AADT * 1.82	50	9.32	11.48	11.48	2000	3.6	A	A
12.30-1.30 PM	AADT * 1.82	50	9.66	11.90	11.90	2000	3.5	A	A
12.30-1.30 PM	AADT * 1.82	50	10.01	12.33	12.33	2000	3.5	A	A
12.30-1.30 PM	AADT * 1.82	50	10.35	12.75	12.75	2000	3.5	A	A
12.30-1.30 PM	AADT * 2.737	50	5.87	7.23	7.23	3000	157.2	F	F
12.30-1.30 PM	AADT * 2.737	50	6.21	7.65	7.65	3000	126.8	F	F
12.30-1.30 PM	AADT * 2.737	50	6.56	8.08	8.08	3000	102.8	F	F
12.30-1.30 PM	AADT * 2.737	50	6.90	8.50	8.50	3000	82.7	F	F
12.30-1.30 PM	AADT * 2.737	50	7.25	8.93	8.93	3000	64.8	E	F
12.30-1.30 PM	AADT * 2.737	50	7.59	9.35	9.35	3000	49.4	D	E
12.30-1.30 PM	AADT * 2.737	50	7.94	9.78	9.78	3000	38.3	D	E
12.30-1.30 PM	AADT * 2.737	50	8.28	10.20	10.20	3000	33.5	C	D

12.30-1.30 PM	AADT * 2.737	50	8.63	10.63	10.63	3000	32.9	C	D
12.30-1.30 PM	AADT * 2.737	50	8.97	11.05	11.05	3000	32.4	C	D
12.30-1.30 PM	AADT * 2.737	50	9.32	11.48	11.48	3000	32.1	C	D
12.30-1.30 PM	AADT * 2.737	50	9.66	11.90	11.90	3000	31.8	C	D
12.30-1.30 PM	AADT * 2.737	50	10.01	12.33	12.33	3000	31.6	C	D
12.30-1.30 PM	AADT * 2.737	50	10.35	12.75	12.75	3000	31.6	C	D
12.30-1.30 PM	AADT *3.65	50	5.87	7.23	7.23	4000	567.5	F	F
12.30-1.30 PM	AADT *3.65	50	6.21	7.65	7.65	4000	519.4	F	F
12.30-1.30 PM	AADT *3.65	50	6.56	8.08	8.08	4000	476.1	F	F
12.30-1.30 PM	AADT *3.65	50	6.90	8.50	8.50	4000	438.8	F	F
12.30-1.30 PM	AADT *3.65	50	7.25	8.93	8.93	4000	405.5	F	F
12.30-1.30 PM	AADT *3.65	50	7.59	9.35	9.35	4000	377.1	F	F
12.30-1.30 PM	AADT *3.65	50	7.94	9.78	9.78	4000	351.2	F	F
12.30-1.30 PM	AADT *3.65	50	8.28	10.20	10.20	4000	336.3	F	F
12.30-1.30 PM	AADT *3.65	50	8.63	10.63	10.63	4000	331.3	F	F
12.30-1.30 PM	AADT *3.65	50	8.97	11.05	11.05	4000	327.2	F	F
12.30-1.30 PM	AADT *3.65	50	9.32	11.48	11.48	4000	323.3	F	F
12.30-1.30 PM	AADT *3.65	50	9.66	11.90	11.90	4000	320	F	F
12.30-1.30 PM	AADT *3.65	50	10.01	12.33	12.33	4000	316.9	F	F
12.30-1.30 PM	AADT *3.65	50	10.35	12.75	12.75	4000	316.9	F	F
4.30-5.30 PM	AADT * 1	50	5.87	7.23	7.23	1631	4.3	A	A
4.30-5.30 PM	AADT * 1	50	6.21	7.65	7.65	1631	4	A	A
4.30-5.30 PM	AADT * 1	50	6.56	8.08	8.08	1631	3.7	A	A
4.30-5.30 PM	AADT * 1	50	6.90	8.50	8.50	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	50	7.25	8.93	8.93	1631	3.3	A	A
4.30-5.30 PM	AADT * 1	50	7.59	9.35	9.35	1631	3.2	A	A
4.30-5.30 PM	AADT * 1	50	7.94	9.78	9.78	1631	3.1	A	A
4.30-5.30 PM	AADT * 1	50	8.28	10.20	10.20	1631	3	A	A
4.30-5.30 PM	AADT * 1	50	8.63	10.63	10.63	1631	2.9	A	A
4.30-5.30 PM	AADT * 1	50	8.97	11.05	11.05	1631	2.8	A	A
4.30-5.30 PM	AADT * 1	50	9.32	11.48	11.48	1631	2.8	A	A
4.30-5.30 PM	AADT * 1	50	9.66	11.90	11.90	1631	2.8	A	A
4.30-5.30 PM	AADT * 1	50	10.01	12.33	12.33	1631	2.8	A	A
4.30-5.30 PM	AADT * 1	50	10.35	12.75	12.75	1631	2.8	A	A
4.30-5.30 PM	AADT * 1.226	50	5.87	7.23	7.23	2000	6.4	A	A
4.30-5.30 PM	AADT * 1.226	50	6.21	7.65	7.65	2000	5.7	A	A
4.30-5.30 PM	AADT * 1.226	50	6.56	8.08	8.08	2000	5.2	A	A
4.30-5.30 PM	AADT * 1.226	50	6.90	8.50	8.50	2000	4.8	A	A
4.30-5.30 PM	AADT * 1.226	50	7.25	8.93	8.93	2000	4.4	A	A
4.30-5.30 PM	AADT * 1.226	50	7.59	9.35	9.35	2000	4.2	A	A
4.30-5.30 PM	AADT * 1.226	50	7.94	9.78	9.78	2000	4	A	A
4.30-5.30 PM	AADT * 1.226	50	8.28	10.20	10.20	2000	3.8	A	A
4.30-5.30 PM	AADT * 1.226	50	8.63	10.63	10.63	2000	3.7	A	A
4.30-5.30 PM	AADT * 1.226	50	8.97	11.05	11.05	2000	3.6	A	A
4.30-5.30 PM	AADT * 1.226	50	9.32	11.48	11.48	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.226	50	9.66	11.90	11.90	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.226	50	10.01	12.33	12.33	2000	3.5	A	A
4.30-5.30 PM	AADT * 1.226	50	10.35	12.75	12.75	2000	3.5	A	A

4.30-5.30 PM	AADT * 1.84	50	5.87	7.23	7.23	3000	142.8	F	F
4.30-5.30 PM	AADT * 1.84	50	6.21	7.65	7.65	3000	112.3	F	F
4.30-5.30 PM	AADT * 1.84	50	6.56	8.08	8.08	3000	86.9	F	F
4.30-5.30 PM	AADT * 1.84	50	6.90	8.50	8.50	3000	67.4	E	F
4.30-5.30 PM	AADT * 1.84	50	7.25	8.93	8.93	3000	50.8	D	F
4.30-5.30 PM	AADT * 1.84	50	7.59	9.35	9.35	3000	39.5	D	E
4.30-5.30 PM	AADT * 1.84	50	7.94	9.78	9.78	3000	31.6	C	D
4.30-5.30 PM	AADT * 1.84	50	8.28	10.20	10.20	3000	26.4	C	D
4.30-5.30 PM	AADT * 1.84	50	8.63	10.63	10.63	3000	23.1	C	C
4.30-5.30 PM	AADT * 1.84	50	8.97	11.05	11.05	3000	20.8	C	C
4.30-5.30 PM	AADT * 1.84	50	9.32	11.48	11.48	3000	19.1	B	C
4.30-5.30 PM	AADT * 1.84	50	9.66	11.90	11.90	3000	17.9	B	C
4.30-5.30 PM	AADT * 1.84	50	10.01	12.33	12.33	3000	17	B	C
4.30-5.30 PM	AADT * 1.84	50	10.35	12.75	12.75	3000	17	B	C
4.30-5.30 PM	AADT * 2.452	50	5.87	7.23	7.23	4000	536.2	F	F
4.30-5.30 PM	AADT * 2.452	50	6.21	7.65	7.65	4000	488.1	F	F
4.30-5.30 PM	AADT * 2.452	50	6.56	8.08	8.08	4000	445.4	F	F
4.30-5.30 PM	AADT * 2.452	50	6.90	8.50	8.50	4000	409	F	F
4.30-5.30 PM	AADT * 2.452	50	7.25	8.93	8.93	4000	376.5	F	F
4.30-5.30 PM	AADT * 2.452	50	7.59	9.35	9.35	4000	348.4	F	F
4.30-5.30 PM	AADT * 2.452	50	7.94	9.78	9.78	4000	322.9	F	F
4.30-5.30 PM	AADT * 2.452	50	8.28	10.20	10.20	4000	306.6	F	F
4.30-5.30 PM	AADT * 2.452	50	8.63	10.63	10.63	4000	298.2	F	F
4.30-5.30 PM	AADT * 2.452	50	8.97	11.05	11.05	4000	291.4	F	F
4.30-5.30 PM	AADT * 2.452	50	9.32	11.48	11.48	4000	284.9	F	F
4.30-5.30 PM	AADT * 2.452	50	9.66	11.90	11.90	4000	279.3	F	F
4.30-5.30 PM	AADT * 2.452	50	10.01	12.33	12.33	4000	274.2	F	F
4.30-5.30 PM	AADT * 2.452	50	10.35	12.75	12.75	4000	274.2	F	F
8.30-9.30 AM	AADT * 1	85	5.87	7.23	7.23	841	2.9	A	A
8.30-9.30 AM	AADT * 1	85	6.21	7.65	7.65	841	2.8	A	A
8.30-9.30 AM	AADT * 1	85	6.56	8.08	8.08	841	2.6	A	A
8.30-9.30 AM	AADT * 1	85	6.90	8.50	8.50	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	7.25	8.93	8.93	841	2.4	A	A
8.30-9.30 AM	AADT * 1	85	7.59	9.35	9.35	841	2.3	A	A
8.30-9.30 AM	AADT * 1	85	7.94	9.78	9.78	841	2.2	A	A
8.30-9.30 AM	AADT * 1	85	8.28	10.20	10.20	841	2.1	A	A
8.30-9.30 AM	AADT * 1	85	8.63	10.63	10.63	841	2.1	A	A
8.30-9.30 AM	AADT * 1	85	8.97	11.05	11.05	841	2.1	A	A
8.30-9.30 AM	AADT * 1	85	9.32	11.48	11.48	841	2.1	A	A
8.30-9.30 AM	AADT * 1	85	9.66	11.90	11.90	841	2.1	A	A
8.30-9.30 AM	AADT * 1	85	10.01	12.33	12.33	841	2.1	A	A
8.30-9.30 AM	AADT * 1	85	10.35	12.75	12.75	841	2.1	A	A
8.30-9.30 AM	AADT * 2.378	85	5.87	7.23	7.23	2000	26.4	C	D
8.30-9.30 AM	AADT * 2.378	85	6.21	7.65	7.65	2000	16.2	B	C
8.30-9.30 AM	AADT * 2.378	85	6.56	8.08	8.08	2000	11.3	B	B
8.30-9.30 AM	AADT * 2.378	85	6.90	8.50	8.50	2000	8.8	A	A
8.30-9.30 AM	AADT * 2.378	85	7.25	8.93	8.93	2000	7.7	A	A
8.30-9.30 AM	AADT * 2.378	85	7.59	9.35	9.35	2000	6.6	A	A

8.30-9.30 AM	AADT * 2.378	85	7.94	9.78	9.78	2000	5.9	A	A
8.30-9.30 AM	AADT * 2.378	85	8.28	10.20	10.20	2000	5.5	A	A
8.30-9.30 AM	AADT * 2.378	85	8.63	10.63	10.63	2000	5.5	A	A
8.30-9.30 AM	AADT * 2.378	85	8.97	11.05	11.05	2000	5.5	A	A
8.30-9.30 AM	AADT * 2.378	85	9.32	11.48	11.48	2000	5.5	A	A
8.30-9.30 AM	AADT * 2.378	85	9.66	11.90	11.90	2000	5.5	A	A
8.30-9.30 AM	AADT * 2.378	85	10.01	12.33	12.33	2000	5.4	A	A
8.30-9.30 AM	AADT * 2.378	85	10.35	12.75	12.75	2000	5.4	A	A
8.30-9.30 AM	AADT * 3.567	85	5.87	7.23	7.23	3000	423.2	F	F
8.30-9.30 AM	AADT * 3.567	85	6.21	7.65	7.65	3000	377.5	F	F
8.30-9.30 AM	AADT * 3.567	85	6.56	8.08	8.08	3000	337.1	F	F
8.30-9.30 AM	AADT * 3.567	85	6.90	8.50	8.50	3000	302.6	F	F
8.30-9.30 AM	AADT * 3.567	85	7.25	8.93	8.93	3000	270.8	F	F
8.30-9.30 AM	AADT * 3.567	85	7.59	9.35	9.35	3000	242.5	F	F
8.30-9.30 AM	AADT * 3.567	85	7.94	9.78	9.78	3000	216.2	F	F
8.30-9.30 AM	AADT * 3.567	85	8.28	10.20	10.20	3000	203.7	F	F
8.30-9.30 AM	AADT * 3.567	85	8.63	10.63	10.63	3000	203.7	F	F
8.30-9.30 AM	AADT * 3.567	85	8.97	11.05	11.05	3000	203.6	F	F
8.30-9.30 AM	AADT * 3.567	85	9.32	11.48	11.48	3000	203.6	F	F
8.30-9.30 AM	AADT * 3.567	85	9.66	11.90	11.90	3000	203.6	F	F
8.30-9.30 AM	AADT * 3.567	85	10.01	12.33	12.33	3000	203.6	F	F
8.30-9.30 AM	AADT * 3.567	85	10.35	12.75	12.75	3000	203.6	F	F
8.30-9.30 AM	AADT * 4.756	85	5.87	7.23	7.23	4000	798.7	F	F
8.30-9.30 AM	AADT * 4.756	85	6.21	7.65	7.65	4000	761.4	F	F
8.30-9.30 AM	AADT * 4.756	85	6.56	8.08	8.08	4000	725.7	F	F
8.30-9.30 AM	AADT * 4.756	85	6.90	8.50	8.50	4000	692.8	F	F
8.30-9.30 AM	AADT * 4.756	85	7.25	8.93	8.93	4000	660.7	F	F
8.30-9.30 AM	AADT * 4.756	85	7.59	9.35	9.35	4000	631	F	F
8.30-9.30 AM	AADT * 4.756	85	7.94	9.78	9.78	4000	602	F	F
8.30-9.30 AM	AADT * 4.756	85	8.28	10.20	10.20	4000	587.7	F	F
8.30-9.30 AM	AADT * 4.756	85	8.63	10.63	10.63	4000	587.6	F	F
8.30-9.30 AM	AADT * 4.756	85	8.97	11.05	11.05	4000	587.5	F	F
8.30-9.30 AM	AADT * 4.756	85	9.32	11.48	11.48	4000	587.4	F	F
8.30-9.30 AM	AADT * 4.756	85	9.66	11.90	11.90	4000	587.4	F	F
8.30-9.30 AM	AADT * 4.756	85	10.01	12.33	12.33	4000	587.4	F	F
8.30-9.30 AM	AADT * 4.756	85	10.35	12.75	12.75	4000	587.4	F	F
12.30-1.30 PM	AADT * 1	85	5.87	7.23	7.23	1096	3.6	A	A
12.30-1.30 PM	AADT * 1	85	6.21	7.65	7.65	1096	3.4	A	A
12.30-1.30 PM	AADT * 1	85	6.56	8.08	8.08	1096	3.2	A	A
12.30-1.30 PM	AADT * 1	85	6.90	8.50	8.50	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	7.25	8.93	8.93	1096	2.9	A	A
12.30-1.30 PM	AADT * 1	85	7.59	9.35	9.35	1096	2.8	A	A
12.30-1.30 PM	AADT * 1	85	7.94	9.78	9.78	1096	2.7	A	A
12.30-1.30 PM	AADT * 1	85	8.28	10.20	10.20	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	85	8.63	10.63	10.63	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	85	8.97	11.05	11.05	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	85	9.32	11.48	11.48	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	85	9.66	11.90	11.90	1096	2.5	A	A

12.30-1.30 PM	AADT * 1	85	10.01	12.33	12.33	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	85	10.35	12.75	12.75	1096	2.5	A	A
12.30-1.30 PM	AADT * 1.82	85	5.87	7.23	7.23	2000	10.4	B	B
12.30-1.30 PM	AADT * 1.82	85	6.21	7.65	7.65	2000	8.6	A	A
12.30-1.30 PM	AADT * 1.82	85	6.56	8.08	8.08	2000	7.4	A	A
12.30-1.30 PM	AADT * 1.82	85	6.90	8.50	8.50	2000	6.6	A	A
12.30-1.30 PM	AADT * 1.82	85	7.25	8.93	8.93	2000	6	A	A
12.30-1.30 PM	AADT * 1.82	85	7.59	9.35	9.35	2000	5.5	A	A
12.30-1.30 PM	AADT * 1.82	85	7.94	9.78	9.78	2000	5.1	A	A
12.30-1.30 PM	AADT * 1.82	85	8.28	10.20	10.20	2000	4.9	A	A
12.30-1.30 PM	AADT * 1.82	85	8.63	10.63	10.63	2000	4.8	A	A
12.30-1.30 PM	AADT * 1.82	85	8.97	11.05	11.05	2000	4.7	A	A
12.30-1.30 PM	AADT * 1.82	85	9.32	11.48	11.48	2000	4.6	A	A
12.30-1.30 PM	AADT * 1.82	85	9.66	11.90	11.90	2000	4.5	A	A
12.30-1.30 PM	AADT * 1.82	85	10.01	12.33	12.33	2000	4.5	A	A
12.30-1.30 PM	AADT * 1.82	85	10.35	12.75	12.75	2000	4.5	A	A
12.30-1.30 PM	AADT *2.737	85	5.87	7.23	7.23	3000	305.7	F	F
12.30-1.30 PM	AADT *2.737	85	6.21	7.65	7.65	3000	259.8	F	F
12.30-1.30 PM	AADT *2.737	85	6.56	8.08	8.08	3000	219.8	F	F
12.30-1.30 PM	AADT *2.737	85	6.90	8.50	8.50	3000	186.9	F	F
12.30-1.30 PM	AADT *2.737	85	7.25	8.93	8.93	3000	158.7	F	F
12.30-1.30 PM	AADT *2.737	85	7.59	9.35	9.35	3000	135.4	F	F
12.30-1.30 PM	AADT *2.737	85	7.94	9.78	9.78	3000	114.9	F	F
12.30-1.30 PM	AADT *2.737	85	8.28	10.20	10.20	3000	104.3	F	F
12.30-1.30 PM	AADT *2.737	85	8.63	10.63	10.63	3000	101.7	F	F
12.30-1.30 PM	AADT *2.737	85	8.97	11.05	11.05	3000	99.8	F	F
12.30-1.30 PM	AADT *2.737	85	9.32	11.48	11.48	3000	98.4	F	F
12.30-1.30 PM	AADT *2.737	85	9.66	11.90	11.90	3000	97.4	F	F
12.30-1.30 PM	AADT *2.737	85	10.01	12.33	12.33	3000	96.7	F	F
12.30-1.30 PM	AADT *2.737	85	10.35	12.75	12.75	3000	96.7	F	F
12.30-1.30 PM	AADT * 3.65	85	5.87	7.23	7.23	4000	763	F	F
12.30-1.30 PM	AADT * 3.65	85	6.21	7.65	7.65	4000	709.2	F	F
12.30-1.30 PM	AADT * 3.65	85	6.56	8.08	8.08	4000	659.1	F	F
12.30-1.30 PM	AADT * 3.65	85	6.90	8.50	8.50	4000	614.6	F	F
12.30-1.30 PM	AADT * 3.65	85	7.25	8.93	8.93	4000	573.2	F	F
12.30-1.30 PM	AADT * 3.65	85	7.59	9.35	9.35	4000	536.3	F	F
12.30-1.30 PM	AADT * 3.65	85	7.94	9.78	9.78	4000	502	F	F
12.30-1.30 PM	AADT * 3.65	85	8.28	10.20	10.20	4000	482.7	F	F
12.30-1.30 PM	AADT * 3.65	85	8.63	10.63	10.63	4000	475.9	F	F
12.30-1.30 PM	AADT * 3.65	85	8.97	11.05	11.05	4000	469.9	F	F
12.30-1.30 PM	AADT * 3.65	85	9.32	11.48	11.48	4000	464.5	F	F
12.30-1.30 PM	AADT * 3.65	85	9.66	11.90	11.90	4000	459.7	F	F
12.30-1.30 PM	AADT * 3.65	85	10.01	12.33	12.33	4000	455	F	F
12.30-1.30 PM	AADT * 3.65	85	10.35	12.75	12.75	4000	455	F	F
4.30-5.30 PM	AADT * 1	85	5.87	7.23	7.23	1631	6	A	A
4.30-5.30 PM	AADT * 1	85	6.21	7.65	7.65	1631	5.3	A	A
4.30-5.30 PM	AADT * 1	85	6.56	8.08	8.08	1631	4.9	A	A
4.30-5.30 PM	AADT * 1	85	6.90	8.50	8.50	1631	4.5	A	A

4.30-5.30 PM	AADT * 1	85	7.25	8.93	8.93	1631	4.2	A	A
4.30-5.30 PM	AADT * 1	85	7.59	9.35	9.35	1631	4	A	A
4.30-5.30 PM	AADT * 1	85	7.94	9.78	9.78	1631	3.8	A	A
4.30-5.30 PM	AADT * 1	85	8.28	10.20	10.20	1631	3.7	A	A
4.30-5.30 PM	AADT * 1	85	8.63	10.63	10.63	1631	3.6	A	A
4.30-5.30 PM	AADT * 1	85	8.97	11.05	11.05	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	85	9.32	11.48	11.48	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	85	9.66	11.90	11.90	1631	3.4	A	A
4.30-5.30 PM	AADT * 1	85	10.01	12.33	12.33	1631	3.4	A	A
4.30-5.30 PM	AADT * 1	85	10.35	12.75	12.75	1631	3.4	A	A
4.30-5.30 PM	AADT *1.226	85	5.87	7.23	7.23	2000	11.2	B	B
4.30-5.30 PM	AADT *1.226	85	6.21	7.65	7.65	2000	9.2	A	A
4.30-5.30 PM	AADT *1.226	85	6.56	8.08	8.08	2000	7.8	A	A
4.30-5.30 PM	AADT *1.226	85	6.90	8.50	8.50	2000	6.9	A	A
4.30-5.30 PM	AADT *1.226	85	7.25	8.93	8.93	2000	6.3	A	A
4.30-5.30 PM	AADT *1.226	85	7.59	9.35	9.35	2000	5.8	A	A
4.30-5.30 PM	AADT *1.226	85	7.94	9.78	9.78	2000	5.4	A	A
4.30-5.30 PM	AADT *1.226	85	8.28	10.20	10.20	2000	5.1	A	A
4.30-5.30 PM	AADT *1.226	85	8.63	10.63	10.63	2000	4.9	A	A
4.30-5.30 PM	AADT *1.226	85	8.97	11.05	11.05	2000	4.8	A	A
4.30-5.30 PM	AADT *1.226	85	9.32	11.48	11.48	2000	4.7	A	A
4.30-5.30 PM	AADT *1.226	85	9.66	11.90	11.90	2000	4.6	A	A
4.30-5.30 PM	AADT *1.226	85	10.01	12.33	12.33	2000	4.5	A	A
4.30-5.30 PM	AADT *1.226	85	10.35	12.75	12.75	2000	4.5	A	A
4.30-5.30 PM	AADT * 1.84	85	5.87	7.23	7.23	3000	287.8	F	F
4.30-5.30 PM	AADT * 1.84	85	6.21	7.65	7.65	3000	242.5	F	F
4.30-5.30 PM	AADT * 1.84	85	6.56	8.08	8.08	3000	203.6	F	F
4.30-5.30 PM	AADT * 1.84	85	6.90	8.50	8.50	3000	172	F	F
4.30-5.30 PM	AADT * 1.84	85	7.25	8.93	8.93	3000	144.6	F	F
4.30-5.30 PM	AADT * 1.84	85	7.59	9.35	9.35	3000	121.8	F	F
4.30-5.30 PM	AADT * 1.84	85	7.94	9.78	9.78	3000	103.1	F	F
4.30-5.30 PM	AADT * 1.84	85	8.28	10.20	10.20	3000	90.6	F	F
4.30-5.30 PM	AADT * 1.84	85	8.63	10.63	10.63	3000	82.5	F	F
4.30-5.30 PM	AADT * 1.84	85	8.97	11.05	11.05	3000	75.6	E	F
4.30-5.30 PM	AADT * 1.84	85	9.32	11.48	11.48	3000	70.2	E	F
4.30-5.30 PM	AADT * 1.84	85	9.66	11.90	11.90	3000	65.7	E	F
4.30-5.30 PM	AADT * 1.84	85	10.01	12.33	12.33	3000	62.5	E	F
4.30-5.30 PM	AADT * 1.84	85	10.35	12.75	12.75	3000	62.5	E	F
4.30-5.30 PM	AADT * 2.452	85	5.87	7.23	7.23	4000	730.2	F	F
4.30-5.30 PM	AADT * 2.452	85	6.21	7.65	7.65	4000	676.1	F	F
4.30-5.30 PM	AADT * 2.452	85	6.56	8.08	8.08	4000	625.9	F	F
4.30-5.30 PM	AADT * 2.452	85	6.90	8.50	8.50	4000	581.9	F	F
4.30-5.30 PM	AADT * 2.452	85	7.25	8.93	8.93	4000	541.2	F	F
4.30-5.30 PM	AADT * 2.452	85	7.59	9.35	9.35	4000	505.4	F	F
4.30-5.30 PM	AADT * 2.452	85	7.94	9.78	9.78	4000	472.4	F	F
4.30-5.30 PM	AADT * 2.452	85	8.28	10.20	10.20	4000	451.6	F	F
4.30-5.30 PM	AADT * 2.452	85	8.63	10.63	10.63	4000	440.9	F	F
4.30-5.30 PM	AADT * 2.452	85	8.97	11.05	11.05	4000	431.5	F	F

4.30-5.30 PM	AADT * 2.452	85	9.32	11.48	11.48	4000	423.1	F	F
4.30-5.30 PM	AADT * 2.452	85	9.66	11.90	11.90	4000	415.8	F	F
4.30-5.30 PM	AADT * 2.452	85	10.01	12.33	12.33	4000	409.3	F	F
4.30-5.30 PM	AADT * 2.452	85	10.35	12.75	12.75	4000	409.3	F	F

Flare Length for Congestoga/Can-Amera Roundabout

Timeframe	AADT Assumptions	CL	FLARE LENGHT- CONGESTOGA	FLARE LENGHT - CAN AMERA EAST	FLARE LENGHT - CAN AMERA WEST	AADT	AVERAGE DELAY	LOS SIG	LOS UNSIG
8.30-9.30 AM	AADT * 1	50	7.65	23.35	21.50	841	2.4	A	A
8.30-9.30 AM	AADT * 1	50	8.42	25.69	23.65	841	2.4	A	A
8.30-9.30 AM	AADT * 1	50	9.18	28.02	25.80	841	2.3	A	A
8.30-9.30 AM	AADT * 1	50	9.95	30.36	27.95	841	2.3	A	A
8.30-9.30 AM	AADT * 1	50	10.71	32.69	30.10	841	2.3	A	A
8.30-9.30 AM	AADT * 1	50	11.48	35.03	32.25	841	2.3	A	A
8.30-9.30 AM	AADT * 1	50	12.24	37.36	34.40	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	13.01	39.70	36.55	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	13.77	42.03	38.70	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	14.54	44.37	40.85	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	15.30	46.70	43.00	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	16.07	49.04	45.15	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	16.83	51.37	47.30	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	17.60	53.71	49.45	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	18.36	56.04	51.60	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	19.13	58.38	53.75	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	19.89	60.71	55.90	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	20.66	63.05	58.05	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	21.42	65.38	60.20	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	22.19	67.72	62.35	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	22.95	70.05	64.50	841	2.1	A	A
8.30-9.30 AM	AADT * 2,378	50	7.65	23.35	21.50	2000	7.8	A	A
8.30-9.30 AM	AADT * 2,378	50	8.42	25.69	23.65	2000	7.2	A	A
8.30-9.30 AM	AADT * 2,378	50	9.18	28.02	25.80	2000	6.7	A	A
8.30-9.30 AM	AADT * 2,378	50	9.95	30.36	27.95	2000	6.4	A	A
8.30-9.30 AM	AADT * 2,378	50	10.71	32.69	30.10	2000	6.1	A	A
8.30-9.30 AM	AADT * 2,378	50	11.48	35.03	32.25	2000	5.9	A	A
8.30-9.30 AM	AADT * 2,378	50	12.24	37.36	34.40	2000	5.7	A	A
8.30-9.30 AM	AADT * 2,378	50	13.01	39.70	36.55	2000	5.5	A	A
8.30-9.30 AM	AADT * 2,378	50	13.77	42.03	38.70	2000	5.3	A	A
8.30-9.30 AM	AADT * 2,378	50	14.54	44.37	40.85	2000	5.2	A	A
8.30-9.30 AM	AADT * 2,378	50	15.30	46.70	43.00	2000	5.1	A	A
8.30-9.30 AM	AADT * 2,378	50	16.07	49.04	45.15	2000	5	A	A
8.30-9.30 AM	AADT * 2,378	50	16.83	51.37	47.30	2000	4.9	A	A
8.30-9.30 AM	AADT * 2,378	50	17.60	53.71	49.45	2000	4.9	A	A
8.30-9.30 AM	AADT * 2,378	50	18.36	56.04	51.60	2000	4.8	A	A
8.30-9.30 AM	AADT * 2,378	50	19.13	58.38	53.75	2000	4.7	A	A
8.30-9.30 AM	AADT * 2,378	50	19.89	60.71	55.90	2000	4.7	A	A
8.30-9.30 AM	AADT * 2,378	50	20.66	63.05	58.05	2000	4.6	A	A
8.30-9.30 AM	AADT * 2,378	50	21.42	65.38	60.20	2000	4.6	A	A
8.30-9.30 AM	AADT * 2,378	50	22.19	67.72	62.35	2000	4.5	A	A
8.30-9.30 AM	AADT * 2,378	50	22.95	70.05	64.50	2000	4.5	A	A

8.30-9.30 AM	AADT * 3,567	50	7.65	23.35	21.50	3000	277.1	F	F
8.30-9.30 AM	AADT * 3,567	50	8.42	25.69	23.65	3000	262.3	F	F
8.30-9.30 AM	AADT * 3,567	50	9.18	28.02	25.80	3000	249.3	F	F
8.30-9.30 AM	AADT * 3,567	50	9.95	30.36	27.95	3000	237.9	F	F
8.30-9.30 AM	AADT * 3,567	50	10.71	32.69	30.10	3000	227.7	F	F
8.30-9.30 AM	AADT * 3,567	50	11.48	35.03	32.25	3000	218.7	F	F
8.30-9.30 AM	AADT * 3,567	50	12.24	37.36	34.40	3000	210.5	F	F
8.30-9.30 AM	AADT * 3,567	50	13.01	39.70	36.55	3000	203.3	F	F
8.30-9.30 AM	AADT * 3,567	50	13.77	42.03	38.70	3000	196.7	F	F
8.30-9.30 AM	AADT * 3,567	50	14.54	44.37	40.85	3000	190.8	F	F
8.30-9.30 AM	AADT * 3,567	50	15.30	46.70	43.00	3000	185.4	F	F
8.30-9.30 AM	AADT * 3,567	50	16.07	49.04	45.15	3000	180.5	F	F
8.30-9.30 AM	AADT * 3,567	50	16.83	51.37	47.30	3000	176.1	F	F
8.30-9.30 AM	AADT * 3,567	50	17.60	53.71	49.45	3000	172	F	F
8.30-9.30 AM	AADT * 3,567	50	18.36	56.04	51.60	3000	168.3	F	F
8.30-9.30 AM	AADT * 3,567	50	19.13	58.38	53.75	3000	164.9	F	F
8.30-9.30 AM	AADT * 3,567	50	19.89	60.71	55.90	3000	161.7	F	F
8.30-9.30 AM	AADT * 3,567	50	20.66	63.05	58.05	3000	158.8	F	F
8.30-9.30 AM	AADT * 3,567	50	21.42	65.38	60.20	3000	156	F	F
8.30-9.30 AM	AADT * 3,567	50	22.19	67.72	62.35	3000	153.4	F	F
8.30-9.30 AM	AADT * 3,567	50	22.95	70.05	64.50	3000	151	F	F
8.30-9.30 AM	AADT * 4,756	50	7.65	23.35	21.50	4000	657	F	F
8.30-9.30 AM	AADT * 4,756	50	8.42	25.69	23.65	4000	641.9	F	F
8.30-9.30 AM	AADT * 4,756	50	9.18	28.02	25.80	4000	628.4	F	F
8.30-9.30 AM	AADT * 4,756	50	9.95	30.36	27.95	4000	616.3	F	F
8.30-9.30 AM	AADT * 4,756	50	10.71	32.69	30.10	4000	605.3	F	F
8.30-9.30 AM	AADT * 4,756	50	11.48	35.03	32.25	4000	594.5	F	F
8.30-9.30 AM	AADT * 4,756	50	12.24	37.36	34.40	4000	586.3	F	F
8.30-9.30 AM	AADT * 4,756	50	13.01	39.70	36.55	4000	578	F	F
8.30-9.30 AM	AADT * 4,756	50	13.77	42.03	38.70	4000	570.3	F	F
8.30-9.30 AM	AADT * 4,756	50	14.54	44.37	40.85	4000	563.3	F	F
8.30-9.30 AM	AADT * 4,756	50	15.30	46.70	43.00	4000	556.8	F	F
8.30-9.30 AM	AADT * 4,756	50	16.07	49.04	45.15	4000	550.7	F	F
8.30-9.30 AM	AADT * 4,756	50	16.83	51.37	47.30	4000	545.1	F	F
8.30-9.30 AM	AADT * 4,756	50	17.60	53.71	49.45	4000	539.9	F	F
8.30-9.30 AM	AADT * 4,756	50	18.36	56.04	51.60	4000	535	F	F
8.30-9.30 AM	AADT * 4,756	50	19.13	58.38	53.75	4000	530.4	F	F
8.30-9.30 AM	AADT * 4,756	50	19.89	60.71	55.90	4000	526.1	F	F
8.30-9.30 AM	AADT * 4,756	50	20.66	63.05	58.05	4000	522	F	F
8.30-9.30 AM	AADT * 4,756	50	21.42	65.38	60.20	4000	518.2	F	F
8.30-9.30 AM	AADT * 4,756	50	22.19	67.72	62.35	4000	514.6	F	F
8.30-9.30 AM	AADT * 4,756	50	22.95	70.05	64.50	4000	511.2	F	F
12.30-1.30 PM	AADT * 1	50	7.65	23.35	21.50	1096	2.8	A	A
12.30-1.30 PM	AADT * 1	50	8.42	25.69	23.65	1096	2.8	A	A
12.30-1.30 PM	AADT * 1	50	9.18	28.02	25.80	1096	2.8	A	A
12.30-1.30 PM	AADT * 1	50	9.95	30.36	27.95	1096	2.7	A	A
12.30-1.30 PM	AADT * 1	50	10.71	32.69	30.10	1096	2.7	A	A
12.30-1.30 PM	AADT * 1	50	11.48	35.03	32.25	1096	2.7	A	A

12.30-1.30 PM	AADT * 1	50	12.24	37.36	34.40	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	13.01	39.70	36.55	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	13.77	42.03	38.70	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	14.54	44.37	40.85	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	15.30	46.70	43.00	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	16.07	49.04	45.15	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	16.83	51.37	47.30	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	17.60	53.71	49.45	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	18.36	56.04	51.60	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	19.13	58.38	53.75	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	19.89	60.71	55.90	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	20.66	63.05	58.05	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	21.42	65.38	60.20	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	22.19	67.72	62.35	1096	2.4	A	A
12.30-1.30 PM	AADT * 1	50	22.95	70.05	64.50	1096	2.4	A	A
12.30-1.30 PM	AADT * 1.82	50	7.65	23.35	21.50	2000	5.8	A	A
12.30-1.30 PM	AADT * 1.82	50	8.42	25.69	23.65	2000	5.6	A	A
12.30-1.30 PM	AADT * 1.82	50	9.18	28.02	25.80	2000	5.4	A	A
12.30-1.30 PM	AADT * 1.82	50	9.95	30.36	27.95	2000	5.3	A	A
12.30-1.30 PM	AADT * 1.82	50	10.71	32.69	30.10	2000	5.1	A	A
12.30-1.30 PM	AADT * 1.82	50	11.48	35.03	32.25	2000	5	A	A
12.30-1.30 PM	AADT * 1.82	50	12.24	37.36	34.40	2000	4.9	A	A
12.30-1.30 PM	AADT * 1.82	50	13.01	39.70	36.55	2000	4.8	A	A
12.30-1.30 PM	AADT * 1.82	50	13.77	42.03	38.70	2000	4.8	A	A
12.30-1.30 PM	AADT * 1.82	50	14.54	44.37	40.85	2000	4.7	A	A
12.30-1.30 PM	AADT * 1.82	50	15.30	46.70	43.00	2000	4.6	A	A
12.30-1.30 PM	AADT * 1.82	50	16.07	49.04	45.15	2000	4.6	A	A
12.30-1.30 PM	AADT * 1.82	50	16.83	51.37	47.30	2000	4.5	A	A
12.30-1.30 PM	AADT * 1.82	50	17.60	53.71	49.45	2000	4.5	A	A
12.30-1.30 PM	AADT * 1.82	50	18.36	56.04	51.60	2000	4.4	A	A
12.30-1.30 PM	AADT * 1.82	50	19.13	58.38	53.75	2000	4.4	A	A
12.30-1.30 PM	AADT * 1.82	50	19.89	60.71	55.90	2000	4.4	A	A
12.30-1.30 PM	AADT * 1.82	50	20.66	63.05	58.05	2000	4.3	A	A
12.30-1.30 PM	AADT * 1.82	50	21.42	65.38	60.20	2000	4.3	A	A
12.30-1.30 PM	AADT * 1.82	50	22.19	67.72	62.35	2000	4.3	A	A
12.30-1.30 PM	AADT * 1.82	50	22.95	70.05	64.50	2000	4.2	A	A
12.30-1.30 PM	AADT * 2.737	50	7.65	23.35	21.50	3000	147.3	F	F
12.30-1.30 PM	AADT * 2.737	50	8.42	25.69	23.65	3000	136.2	F	F
12.30-1.30 PM	AADT * 2.737	50	9.18	28.02	25.80	3000	127	F	F
12.30-1.30 PM	AADT * 2.737	50	9.95	30.36	27.95	3000	119.1	F	F
12.30-1.30 PM	AADT * 2.737	50	10.71	32.69	30.10	3000	112	F	F
12.30-1.30 PM	AADT * 2.737	50	11.48	35.03	32.25	3000	105.8	F	F
12.30-1.30 PM	AADT * 2.737	50	12.24	37.36	34.40	3000	100.2	F	F
12.30-1.30 PM	AADT * 2.737	50	13.01	39.70	36.55	3000	95.2	F	F
12.30-1.30 PM	AADT * 2.737	50	13.77	42.03	38.70	3000	90.6	F	F
12.30-1.30 PM	AADT * 2.737	50	14.54	44.37	40.85	3000	86.5	F	F
12.30-1.30 PM	AADT * 2.737	50	15.30	46.70	43.00	3000	82.7	F	F
12.30-1.30 PM	AADT * 2.737	50	16.07	49.04	45.15	3000	79.2	E	F

12.30-1.30 PM	AADT * 2.737	50	16.83	51.37	47.30	3000	76	E	F
12.30-1.30 PM	AADT * 2.737	50	17.60	53.71	49.45	3000	75.6	E	F
12.30-1.30 PM	AADT * 2.737	50	18.36	56.04	51.60	3000	70.3	E	F
12.30-1.30 PM	AADT * 2.737	50	19.13	58.38	53.75	3000	67.8	E	F
12.30-1.30 PM	AADT * 2.737	50	19.89	60.71	55.90	3000	65.4	E	F
12.30-1.30 PM	AADT * 2.737	50	20.66	63.05	58.05	3000	63.2	E	F
12.30-1.30 PM	AADT * 2.737	50	21.42	65.38	60.20	3000	61.2	E	F
12.30-1.30 PM	AADT * 2.737	50	22.19	67.72	62.35	3000	59.2	E	F
12.30-1.30 PM	AADT * 2.737	50	22.95	70.05	64.50	3000	57.4	E	F
12.30-1.30 PM	AADT * 3.65	50	7.65	23.35	21.50	4000	552.3	F	F
12.30-1.30 PM	AADT * 3.65	50	8.42	25.69	23.65	4000	534.5	F	F
12.30-1.30 PM	AADT * 3.65	50	9.18	28.02	25.80	4000	518.7	F	F
12.30-1.30 PM	AADT * 3.65	50	9.95	30.36	27.95	4000	504.8	F	F
12.30-1.30 PM	AADT * 3.65	50	10.71	32.69	30.10	4000	492.4	F	F
12.30-1.30 PM	AADT * 3.65	50	11.48	35.03	32.25	4000	481.2	F	F
12.30-1.30 PM	AADT * 3.65	50	12.24	37.36	34.40	4000	471.1	F	F
12.30-1.30 PM	AADT * 3.65	50	13.01	39.70	36.55	4000	462	F	F
12.30-1.30 PM	AADT * 3.65	50	13.77	42.03	38.70	4000	453.7	F	F
12.30-1.30 PM	AADT * 3.65	50	14.54	44.37	40.85	4000	446.1	F	F
12.30-1.30 PM	AADT * 3.65	50	15.30	46.70	43.00	4000	439.2	F	F
12.30-1.30 PM	AADT * 3.65	50	16.07	49.04	45.15	4000	432.9	F	F
12.30-1.30 PM	AADT * 3.65	50	16.83	51.37	47.30	4000	427.1	F	F
12.30-1.30 PM	AADT * 3.65	50	17.60	53.71	49.45	4000	421.7	F	F
12.30-1.30 PM	AADT * 3.65	50	18.36	56.04	51.60	4000	416.8	F	F
12.30-1.30 PM	AADT * 3.65	50	19.13	58.38	53.75	4000	412.2	F	F
12.30-1.30 PM	AADT * 3.65	50	19.89	60.71	55.90	4000	407.9	F	F
12.30-1.30 PM	AADT * 3.65	50	20.66	63.05	58.05	4000	403.9	F	F
12.30-1.30 PM	AADT * 3.65	50	21.42	65.38	60.20	4000	400.2	F	F
12.30-1.30 PM	AADT * 3.65	50	22.19	67.72	62.35	4000	396.6	F	F
12.30-1.30 PM	AADT * 3.65	50	22.95	70.05	64.50	4000	393.4	F	F
4.30-5.30 PM	AADT * 1	50	7.65	23.35	21.50	1631	4.1	A	A
4.30-5.30 PM	AADT * 1	50	8.42	25.69	23.65	1631	4	A	A
4.30-5.30 PM	AADT * 1	50	9.18	28.02	25.80	1631	3.9	A	A
4.30-5.30 PM	AADT * 1	50	9.95	30.36	27.95	1631	3.8	A	A
4.30-5.30 PM	AADT * 1	50	10.71	32.69	30.10	1631	3.8	A	A
4.30-5.30 PM	AADT * 1	50	11.48	35.03	32.25	1631	3.7	A	A
4.30-5.30 PM	AADT * 1	50	12.24	37.36	34.40	1631	3.7	A	A
4.30-5.30 PM	AADT * 1	50	13.01	39.70	36.55	1631	3.6	A	A
4.30-5.30 PM	AADT * 1	50	13.77	42.03	38.70	1631	3.6	A	A
4.30-5.30 PM	AADT * 1	50	14.54	44.37	40.85	1631	3.6	A	A
4.30-5.30 PM	AADT * 1	50	15.30	46.70	43.00	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	50	16.07	49.04	45.15	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	50	16.83	51.37	47.30	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	50	17.60	53.71	49.45	1631	3.4	A	A
4.30-5.30 PM	AADT * 1	50	18.36	56.04	51.60	1631	3.4	A	A
4.30-5.30 PM	AADT * 1	50	19.13	58.38	53.75	1631	3.4	A	A
4.30-5.30 PM	AADT * 1	50	19.89	60.71	55.90	1631	3.4	A	A
4.30-5.30 PM	AADT * 1	50	20.66	63.05	58.05	1631	3.4	A	A

4.30-5.30 PM	AADT * 1	50	21.42	65.38	60.20	1631	3.3	A	A
4.30-5.30 PM	AADT * 1	50	22.19	67.72	62.35	1631	3.3	A	A
4.30-5.30 PM	AADT * 1	50	22.95	70.05	64.50	1631	3.3	A	A
4.30-5.30 PM	AADT * 1.226	50	7.65	23.35	21.50	2000	5.9	A	A
4.30-5.30 PM	AADT * 1.226	50	8.42	25.69	23.65	2000	5.7	A	A
4.30-5.30 PM	AADT * 1.226	50	9.18	28.02	25.80	2000	5.5	A	A
4.30-5.30 PM	AADT * 1.226	50	9.95	30.36	27.95	2000	5.4	A	A
4.30-5.30 PM	AADT * 1.226	50	10.71	32.69	30.10	2000	5.3	A	A
4.30-5.30 PM	AADT * 1.226	50	11.48	35.03	32.25	2000	5.2	A	A
4.30-5.30 PM	AADT * 1.226	50	12.24	37.36	34.40	2000	5.1	A	A
4.30-5.30 PM	AADT * 1.226	50	13.01	39.70	36.55	2000	5	A	A
4.30-5.30 PM	AADT * 1.226	50	13.77	42.03	38.70	2000	4.9	A	A
4.30-5.30 PM	AADT * 1.226	50	14.54	44.37	40.85	2000	4.8	A	A
4.30-5.30 PM	AADT * 1.226	50	15.30	46.70	43.00	2000	4.8	A	A
4.30-5.30 PM	AADT * 1.226	50	16.07	49.04	45.15	2000	4.7	A	A
4.30-5.30 PM	AADT * 1.226	50	16.83	51.37	47.30	2000	4.7	A	A
4.30-5.30 PM	AADT * 1.226	50	17.60	53.71	49.45	2000	4.6	A	A
4.30-5.30 PM	AADT * 1.226	50	18.36	56.04	51.60	2000	4.6	A	A
4.30-5.30 PM	AADT * 1.226	50	19.13	58.38	53.75	2000	4.5	A	A
4.30-5.30 PM	AADT * 1.226	50	19.89	60.71	55.90	2000	4.5	A	A
4.30-5.30 PM	AADT * 1.226	50	20.66	63.05	58.05	2000	4.5	A	A
4.30-5.30 PM	AADT * 1.226	50	21.42	65.38	60.20	2000	4.4	A	A
4.30-5.30 PM	AADT * 1.226	50	22.19	67.72	62.35	2000	4.4	A	A
4.30-5.30 PM	AADT * 1.226	50	22.95	70.05	64.50	2000	4.4	A	A
4.30-5.30 PM	AADT * 1.84	50	7.65	23.35	21.50	3000	128.9	F	F
4.30-5.30 PM	AADT * 1.84	50	8.42	25.69	23.65	3000	118.3	F	F
4.30-5.30 PM	AADT * 1.84	50	9.18	28.02	25.80	3000	109.2	F	F
4.30-5.30 PM	AADT * 1.84	50	9.95	30.36	27.95	3000	101.1	F	F
4.30-5.30 PM	AADT * 1.84	50	10.71	32.69	30.10	3000	94	F	F
4.30-5.30 PM	AADT * 1.84	50	11.48	35.03	32.25	3000	87.8	F	F
4.30-5.30 PM	AADT * 1.84	50	12.24	37.36	34.40	3000	82.8	F	F
4.30-5.30 PM	AADT * 1.84	50	13.01	39.70	36.55	3000	78.3	F	F
4.30-5.30 PM	AADT * 1.84	50	13.77	42.03	38.70	3000	74.3	E	F
4.30-5.30 PM	AADT * 1.84	50	14.54	44.37	40.85	3000	70.7	E	F
4.30-5.30 PM	AADT * 1.84	50	15.30	46.70	43.00	3000	67.9	E	F
4.30-5.30 PM	AADT * 1.84	50	16.07	49.04	45.15	3000	64.4	E	F
4.30-5.30 PM	AADT * 1.84	50	16.83	51.37	47.30	3000	61.7	E	F
4.30-5.30 PM	AADT * 1.84	50	17.60	53.71	49.45	3000	59.2	E	F
4.30-5.30 PM	AADT * 1.84	50	18.36	56.04	51.60	3000	56.9	E	F
4.30-5.30 PM	AADT * 1.84	50	19.13	58.38	53.75	3000	54.8	D	F
4.30-5.30 PM	AADT * 1.84	50	19.89	60.71	55.90	3000	52.7	D	F
4.30-5.30 PM	AADT * 1.84	50	20.66	63.05	58.05	3000	50.9	D	F
4.30-5.30 PM	AADT * 1.84	50	21.42	65.38	60.20	3000	49.2	D	E
4.30-5.30 PM	AADT * 1.84	50	22.19	67.72	62.35	3000	47.6	D	E
4.30-5.30 PM	AADT * 1.84	50	22.95	70.05	64.50	3000	46.1	D	E
4.30-5.30 PM	AADT * 2.452	50	7.65	23.35	21.50	4000	515.4	F	F
4.30-5.30 PM	AADT * 2.452	50	8.42	25.69	23.65	4000	498.5	F	F
4.30-5.30 PM	AADT * 2.452	50	9.18	28.02	25.80	4000	483.7	F	F

4.30-5.30 PM	AADT * 2.452	50	9.95	30.36	27.95	4000	470.6	F	F
4.30-5.30 PM	AADT * 2.452	50	10.71	32.69	30.10	4000	459	F	F
4.30-5.30 PM	AADT * 2.452	50	11.48	35.03	32.25	4000	448.6	F	F
4.30-5.30 PM	AADT * 2.452	50	12.24	37.36	34.40	4000	439.3	F	F
4.30-5.30 PM	AADT * 2.452	50	13.01	39.70	36.55	4000	430.6	F	F
4.30-5.30 PM	AADT * 2.452	50	13.77	42.03	38.70	4000	422.9	F	F
4.30-5.30 PM	AADT * 2.452	50	14.54	44.37	40.85	4000	415.7	F	F
4.30-5.30 PM	AADT * 2.452	50	15.30	46.70	43.00	4000	409.3	F	F
4.30-5.30 PM	AADT * 2.452	50	16.07	49.04	45.15	4000	403.3	F	F
4.30-5.30 PM	AADT * 2.452	50	16.83	51.37	47.30	4000	397.8	F	F
4.30-5.30 PM	AADT * 2.452	50	17.60	53.71	49.45	4000	392.7	F	F
4.30-5.30 PM	AADT * 2.452	50	18.36	56.04	51.60	4000	388	F	F
4.30-5.30 PM	AADT * 2.452	50	19.13	58.38	53.75	4000	383.6	F	F
4.30-5.30 PM	AADT * 2.452	50	19.89	60.71	55.90	4000	379.4	F	F
4.30-5.30 PM	AADT * 2.452	50	20.66	63.05	58.05	4000	375.6	F	F
4.30-5.30 PM	AADT * 2.452	50	21.42	65.38	60.20	4000	372	F	F
4.30-5.30 PM	AADT * 2.452	50	22.19	67.72	62.35	4000	368.9	F	F
4.30-5.30 PM	AADT * 2.452	50	22.95	70.05	64.50	4000	365.4	F	F
8.30-9.30 AM	AADT * 1	85	7.65	23.35	21.50	841	2.8	A	A
8.30-9.30 AM	AADT * 1	85	8.42	25.69	23.65	841	2.8	A	A
8.30-9.30 AM	AADT * 1	85	9.18	28.02	25.80	841	2.7	A	A
8.30-9.30 AM	AADT * 1	85	9.95	30.36	27.95	841	2.7	A	A
8.30-9.30 AM	AADT * 1	85	10.71	32.69	30.10	841	2.6	A	A
8.30-9.30 AM	AADT * 1	85	11.48	35.03	32.25	841	2.6	A	A
8.30-9.30 AM	AADT * 1	85	12.24	37.36	34.40	841	2.6	A	A
8.30-9.30 AM	AADT * 1	85	13.01	39.70	36.55	841	2.6	A	A
8.30-9.30 AM	AADT * 1	85	13.77	42.03	38.70	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	14.54	44.37	40.85	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	15.30	46.70	43.00	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	16.07	49.04	45.15	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	16.83	51.37	47.30	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	17.60	53.71	49.45	841	2.4	A	A
8.30-9.30 AM	AADT * 1	85	18.36	56.04	51.60	841	2.4	A	A
8.30-9.30 AM	AADT * 1	85	19.13	58.38	53.75	841	2.4	A	A
8.30-9.30 AM	AADT * 1	85	19.89	60.71	55.90	841	2.4	A	A
8.30-9.30 AM	AADT * 1	85	20.66	63.05	58.05	841	2.4	A	A
8.30-9.30 AM	AADT * 1	85	21.42	65.38	60.20	841	2.4	A	A
8.30-9.30 AM	AADT * 1	85	22.19	67.72	62.35	841	2.4	A	A
8.30-9.30 AM	AADT * 1	85	22.95	70.05	64.50	841	2.4	A	A
8.30-9.30 AM	AADT * 2.378	85	7.65	23.35	21.50	2000	25.3	C	D
8.30-9.30 AM	AADT * 2.378	85	8.42	25.69	23.65	2000	20.4	C	C
8.30-9.30 AM	AADT * 2.378	85	9.18	28.02	25.80	2000	17.1	B	C
8.30-9.30 AM	AADT * 2.378	85	9.95	30.36	27.95	2000	14.8	B	B
8.30-9.30 AM	AADT * 2.378	85	10.71	32.69	30.10	2000	13.1	B	B
8.30-9.30 AM	AADT * 2.378	85	11.48	35.03	32.25	2000	11.9	B	B
8.30-9.30 AM	AADT * 2.378	85	12.24	37.36	34.40	2000	10.9	B	B
8.30-9.30 AM	AADT * 2.378	85	13.01	39.70	36.55	2000	10.2	B	B
8.30-9.30 AM	AADT * 2.378	85	13.77	42.03	38.70	2000	9.6	A	A

8.30-9.30 AM	AADT * 2.378	85	14.54	44.37	40.85	2000	9.2	A	A
8.30-9.30 AM	AADT * 2.378	85	15.30	46.70	43.00	2000	8.8	A	A
8.30-9.30 AM	AADT * 2.378	85	16.07	49.04	45.15	2000	8.4	A	A
8.30-9.30 AM	AADT * 2.378	85	16.83	51.37	47.30	2000	8.1	A	A
8.30-9.30 AM	AADT * 2.378	85	17.60	53.71	49.45	2000	7.9	A	A
8.30-9.30 AM	AADT * 2.378	85	18.36	56.04	51.60	2000	7.7	A	A
8.30-9.30 AM	AADT * 2.378	85	19.13	58.38	53.75	2000	7.5	A	A
8.30-9.30 AM	AADT * 2.378	85	19.89	60.71	55.90	2000	7.3	A	A
8.30-9.30 AM	AADT * 2.378	85	20.66	63.05	58.05	2000	7.2	A	A
8.30-9.30 AM	AADT * 2.378	85	21.42	65.38	60.20	2000	7	A	A
8.30-9.30 AM	AADT * 2.378	85	22.19	67.72	62.35	2000	6.9	A	A
8.30-9.30 AM	AADT * 2.378	85	22.95	70.05	64.50	2000	6.8	A	A
8.30-9.30 AM	AADT * 3.567	85	7.65	23.35	21.50	3000	419.5	F	F
8.30-9.30 AM	AADT * 3.567	85	8.42	25.69	23.65	3000	400	F	F
8.30-9.30 AM	AADT * 3.567	85	9.18	28.02	25.80	3000	383	F	F
8.30-9.30 AM	AADT * 3.567	85	9.95	30.36	27.95	3000	368.4	F	F
8.30-9.30 AM	AADT * 3.567	85	10.71	32.69	30.10	3000	355.5	F	F
8.30-9.30 AM	AADT * 3.567	85	11.48	35.03	32.25	3000	344.2	F	F
8.30-9.30 AM	AADT * 3.567	85	12.24	37.36	34.40	3000	334.1	F	F
8.30-9.30 AM	AADT * 3.567	85	13.01	39.70	36.55	3000	325	F	F
8.30-9.30 AM	AADT * 3.567	85	13.77	42.03	38.70	3000	316.8	F	F
8.30-9.30 AM	AADT * 3.567	85	14.54	44.37	40.85	3000	309.4	F	F
8.30-9.30 AM	AADT * 3.567	85	15.30	46.70	43.00	3000	302.6	F	F
8.30-9.30 AM	AADT * 3.567	85	16.07	49.04	45.15	3000	296.3	F	F
8.30-9.30 AM	AADT * 3.567	85	16.83	51.37	47.30	3000	290.6	F	F
8.30-9.30 AM	AADT * 3.567	85	17.60	53.71	49.45	3000	285.2	F	F
8.30-9.30 AM	AADT * 3.567	85	18.36	56.04	51.60	3000	280.3	F	F
8.30-9.30 AM	AADT * 3.567	85	19.13	58.38	53.75	3000	275.7	F	F
8.30-9.30 AM	AADT * 3.567	85	19.89	60.71	55.90	3000	271.4	F	F
8.30-9.30 AM	AADT * 3.567	85	20.66	63.05	58.05	3000	267.4	F	F
8.30-9.30 AM	AADT * 3.567	85	21.42	65.38	60.20	3000	263.6	F	F
8.30-9.30 AM	AADT * 3.567	85	22.19	67.72	62.35	3000	260.1	F	F
8.30-9.30 AM	AADT * 3.567	85	22.95	70.05	64.50	3000	256.8	F	F
8.30-9.30 AM	AADT * 4.756	85	7.65	23.35	21.50	4000	794.7	F	F
8.30-9.30 AM	AADT * 4.756	85	8.42	25.69	23.65	4000	779.4	F	F
8.30-9.30 AM	AADT * 4.756	85	9.18	28.02	25.80	4000	765.6	F	F
8.30-9.30 AM	AADT * 4.756	85	9.95	30.36	27.95	4000	753.3	F	F
8.30-9.30 AM	AADT * 4.756	85	10.71	32.69	30.10	4000	742.2	F	F
8.30-9.30 AM	AADT * 4.756	85	11.48	35.03	32.25	4000	732.1	F	F
8.30-9.30 AM	AADT * 4.756	85	12.24	37.36	34.40	4000	722.8	F	F
8.30-9.30 AM	AADT * 4.756	85	13.01	39.70	36.55	4000	714.4	F	F
8.30-9.30 AM	AADT * 4.756	85	13.77	42.03	38.70	4000	706.6	F	F
8.30-9.30 AM	AADT * 4.756	85	14.54	44.37	40.85	4000	699.4	F	F
8.30-9.30 AM	AADT * 4.756	85	15.30	46.70	43.00	4000	692.8	F	F
8.30-9.30 AM	AADT * 4.756	85	16.07	49.04	45.15	4000	686.6	F	F
8.30-9.30 AM	AADT * 4.756	85	16.83	51.37	47.30	4000	680.9	F	F
8.30-9.30 AM	AADT * 4.756	85	17.60	53.71	49.45	4000	675.5	F	F
8.30-9.30 AM	AADT * 4.756	85	18.36	56.04	51.60	4000	670.5	F	F

8.30-9.30 AM	AADT * 4.756	85	19.13	58.38	53.75	4000	665.8	F	F
8.30-9.30 AM	AADT * 4.756	85	19.89	60.71	55.90	4000	661.4	F	F
8.30-9.30 AM	AADT * 4.756	85	20.66	63.05	58.05	4000	657.3	F	F
8.30-9.30 AM	AADT * 4.756	85	21.42	65.38	60.20	4000	653.4	F	F
8.30-9.30 AM	AADT * 4.756	85	22.19	67.72	62.35	4000	649.7	F	F
8.30-9.30 AM	AADT * 4.756	85	22.95	70.05	64.50	4000	646.2	F	F
12.30-1.30 PM	AADT * 1	85	7.65	23.35	21.50	1096	3.5	A	A
12.30-1.30 PM	AADT * 1	85	8.42	25.69	23.65	1096	3.4	A	A
12.30-1.30 PM	AADT * 1	85	9.18	28.02	25.80	1096	3.3	A	A
12.30-1.30 PM	AADT * 1	85	9.95	30.36	27.95	1096	3.3	A	A
12.30-1.30 PM	AADT * 1	85	10.71	32.69	30.10	1096	3.2	A	A
12.30-1.30 PM	AADT * 1	85	11.48	35.03	32.25	1096	3.2	A	A
12.30-1.30 PM	AADT * 1	85	12.24	37.36	34.40	1096	3.2	A	A
12.30-1.30 PM	AADT * 1	85	13.01	39.70	36.55	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	13.77	42.03	38.70	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	14.54	44.37	40.85	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	15.30	46.70	43.00	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	16.07	49.04	45.15	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	16.83	51.37	47.30	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	17.60	53.71	49.45	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	18.36	56.04	51.60	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	19.13	58.38	53.75	1096	2.9	A	A
12.30-1.30 PM	AADT * 1	85	19.89	60.71	55.90	1096	2.9	A	A
12.30-1.30 PM	AADT * 1	85	20.66	63.05	58.05	1096	2.9	A	A
12.30-1.30 PM	AADT * 1	85	21.42	65.38	60.20	1096	2.9	A	A
12.30-1.30 PM	AADT * 1	85	22.19	67.72	62.35	1096	2.9	A	A
12.30-1.30 PM	AADT * 1	85	22.95	70.05	64.50	1096	2.9	A	A
12.30-1.30 PM	AADT * 1.82	85	7.65	23.35	21.50	2000	9.6	A	A
12.30-1.30 PM	AADT * 1.82	85	8.42	25.69	23.65	2000	8.9	A	A
12.30-1.30 PM	AADT * 1.82	85	9.18	28.02	25.80	2000	8.5	A	A
12.30-1.30 PM	AADT * 1.82	85	9.95	30.36	27.95	2000	8.1	A	A
12.30-1.30 PM	AADT * 1.82	85	10.71	32.69	30.10	2000	7.7	A	A
12.30-1.30 PM	AADT * 1.82	85	11.48	35.03	32.25	2000	7.5	A	A
12.30-1.30 PM	AADT * 1.82	85	12.24	37.36	34.40	2000	7.3	A	A
12.30-1.30 PM	AADT * 1.82	85	13.01	39.70	36.55	2000	7.1	A	A
12.30-1.30 PM	AADT * 1.82	85	13.77	42.03	38.70	2000	6.9	A	A
12.30-1.30 PM	AADT * 1.82	85	14.54	44.37	40.85	2000	6.7	A	A
12.30-1.30 PM	AADT * 1.82	85	15.30	46.70	43.00	2000	6.6	A	A
12.30-1.30 PM	AADT * 1.82	85	16.07	49.04	45.15	2000	6.5	A	A
12.30-1.30 PM	AADT * 1.82	85	16.83	51.37	47.30	2000	6.4	A	A
12.30-1.30 PM	AADT * 1.82	85	17.60	53.71	49.45	2000	6.3	A	A
12.30-1.30 PM	AADT * 1.82	85	18.36	56.04	51.60	2000	6.2	A	A
12.30-1.30 PM	AADT * 1.82	85	19.13	58.38	53.75	2000	6.1	A	A
12.30-1.30 PM	AADT * 1.82	85	19.89	60.71	55.90	2000	6.1	A	A
12.30-1.30 PM	AADT * 1.82	85	20.66	63.05	58.05	2000	6	A	A
12.30-1.30 PM	AADT * 1.82	85	21.42	65.38	60.20	2000	5.9	A	A
12.30-1.30 PM	AADT * 1.82	85	22.19	67.72	62.35	2000	5.9	A	A
12.30-1.30 PM	AADT * 1.82	85	22.95	70.05	64.50	2000	5.8	A	A

12.30-1.30 PM	AADT * 2.737	85	7.65	23.35	21.50	3000	291	F	F
12.30-1.30 PM	AADT * 2.737	85	8.42	25.69	23.65	3000	273.7	F	F
12.30-1.30 PM	AADT * 2.737	85	9.18	28.02	25.80	3000	259	F	F
12.30-1.30 PM	AADT * 2.737	85	9.95	30.36	27.95	3000	245.9	F	F
12.30-1.30 PM	AADT * 2.737	85	10.71	32.69	30.10	3000	234.3	F	F
12.30-1.30 PM	AADT * 2.737	85	11.48	35.03	32.25	3000	224.2	F	F
12.30-1.30 PM	AADT * 2.737	85	12.24	37.36	34.40	3000	215	F	F
12.30-1.30 PM	AADT * 2.737	85	13.01	39.70	36.55	3000	206.8	F	F
12.30-1.30 PM	AADT * 2.737	85	13.77	42.03	38.70	3000	199.5	F	F
12.30-1.30 PM	AADT * 2.737	85	14.54	44.37	40.85	3000	192.9	F	F
12.30-1.30 PM	AADT * 2.737	85	15.30	46.70	43.00	3000	186.9	F	F
12.30-1.30 PM	AADT * 2.737	85	16.07	49.04	45.15	3000	181.4	F	F
12.30-1.30 PM	AADT * 2.737	85	16.83	51.37	47.30	3000	176.5	F	F
12.30-1.30 PM	AADT * 2.737	85	17.60	53.71	49.45	3000	172	F	F
12.30-1.30 PM	AADT * 2.737	85	18.36	56.04	51.60	3000	167.8	F	F
12.30-1.30 PM	AADT * 2.737	85	19.13	58.38	53.75	3000	164	F	F
12.30-1.30 PM	AADT * 2.737	85	19.89	60.71	55.90	3000	160.4	F	F
12.30-1.30 PM	AADT * 2.737	85	20.66	63.05	58.05	3000	157.1	F	F
12.30-1.30 PM	AADT * 2.737	85	21.42	65.38	60.20	3000	154	F	F
12.30-1.30 PM	AADT * 2.737	85	22.19	67.72	62.35	3000	151.1	F	F
12.30-1.30 PM	AADT * 2.737	85	22.95	70.05	64.50	3000	148.4	F	F
12.30-1.30 PM	AADT * 3.65	85	7.65	23.35	21.50	4000	744.7	F	F
12.30-1.30 PM	AADT * 3.65	85	8.42	25.69	23.65	4000	725	F	F
12.30-1.30 PM	AADT * 3.65	85	9.18	28.02	25.80	4000	707.5	F	F
12.30-1.30 PM	AADT * 3.65	85	9.95	30.36	27.95	4000	691.7	F	F
12.30-1.30 PM	AADT * 3.65	85	10.71	32.69	30.10	4000	677.6	F	F
12.30-1.30 PM	AADT * 3.65	85	11.48	35.03	32.25	4000	664.7	F	F
12.30-1.30 PM	AADT * 3.65	85	12.24	37.36	34.40	4000	653	F	F
12.30-1.30 PM	AADT * 3.65	85	13.01	39.70	36.55	4000	642.2	F	F
12.30-1.30 PM	AADT * 3.65	85	13.77	42.03	38.70	4000	632.4	F	F
12.30-1.30 PM	AADT * 3.65	85	14.54	44.37	40.85	4000	623.4	F	F
12.30-1.30 PM	AADT * 3.65	85	15.30	46.70	43.00	4000	615.1	F	F
12.30-1.30 PM	AADT * 3.65	85	16.07	49.04	45.15	4000	607.3	F	F
12.30-1.30 PM	AADT * 3.65	85	16.83	51.37	47.30	4000	600.2	F	F
12.30-1.30 PM	AADT * 3.65	85	17.60	53.71	49.45	4000	593.5	F	F
12.30-1.30 PM	AADT * 3.65	85	18.36	56.04	51.60	4000	587.3	F	F
12.30-1.30 PM	AADT * 3.65	85	19.13	58.38	53.75	4000	581.5	F	F
12.30-1.30 PM	AADT * 3.65	85	19.89	60.71	55.90	4000	576.1	F	F
12.30-1.30 PM	AADT * 3.65	85	20.66	63.05	58.05	4000	571	F	F
12.30-1.30 PM	AADT * 3.65	85	21.42	65.38	60.20	4000	566.2	F	F
12.30-1.30 PM	AADT * 3.65	85	22.19	67.72	62.35	4000	561.7	F	F
12.30-1.30 PM	AADT * 3.65	85	22.95	70.05	64.50	4000	557.5	F	F
4.30-5.30 PM	AADT * 1	85	7.65	23.35	21.50	1631	5.5	D	F
4.30-5.30 PM	AADT * 1	85	8.42	25.69	23.65	1631	5.4	B	C
4.30-5.30 PM	AADT * 1	85	9.18	28.02	25.80	1631	5.2	B	B
4.30-5.30 PM	AADT * 1	85	9.95	30.36	27.95	1631	5.1	B	B
4.30-5.30 PM	AADT * 1	85	10.71	32.69	30.10	1631	5	B	B
4.30-5.30 PM	AADT * 1	85	11.48	35.03	32.25	1631	4.9	A	A

4.30-5.30 PM	AADT * 1	85	12.24	37.36	34.40	1631	4.8	A	A
4.30-5.30 PM	AADT * 1	85	13.01	39.70	36.55	1631	4.7	A	A
4.30-5.30 PM	AADT * 1	85	13.77	42.03	38.70	1631	4.6	A	A
4.30-5.30 PM	AADT * 1	85	14.54	44.37	40.85	1631	4.6	A	A
4.30-5.30 PM	AADT * 1	85	15.30	46.70	43.00	1631	4.5	A	A
4.30-5.30 PM	AADT * 1	85	16.07	49.04	45.15	1631	4.5	A	A
4.30-5.30 PM	AADT * 1	85	16.83	51.37	47.30	1631	4.4	A	A
4.30-5.30 PM	AADT * 1	85	17.60	53.71	49.45	1631	4.4	A	A
4.30-5.30 PM	AADT * 1	85	18.36	56.04	51.60	1631	4.3	A	A
4.30-5.30 PM	AADT * 1	85	19.13	58.38	53.75	1631	4.3	A	A
4.30-5.30 PM	AADT * 1	85	19.89	60.71	55.90	1631	4.3	A	A
4.30-5.30 PM	AADT * 1	85	20.66	63.05	58.05	1631	4.2	A	A
4.30-5.30 PM	AADT * 1	85	21.42	65.38	60.20	1631	4.2	A	A
4.30-5.30 PM	AADT * 1	85	22.19	67.72	62.35	1631	4.2	A	A
4.30-5.30 PM	AADT * 1	85	22.95	70.05	64.50	1631	4.2	A	A
4.30-5.30 PM	AADT * 1.226	85	7.65	23.35	21.50	2000	9.8	A	A
4.30-5.30 PM	AADT * 1.226	85	8.42	25.69	23.65	2000	9.2	A	A
4.30-5.30 PM	AADT * 1.226	85	9.18	28.02	25.80	2000	8.8	A	A
4.30-5.30 PM	AADT * 1.226	85	9.95	30.36	27.95	2000	8.4	A	A
4.30-5.30 PM	AADT * 1.226	85	10.71	32.69	30.10	2000	8.1	A	A
4.30-5.30 PM	AADT * 1.226	85	11.48	35.03	32.25	2000	7.8	A	A
4.30-5.30 PM	AADT * 1.226	85	12.24	37.36	34.40	2000	7.6	A	A
4.30-5.30 PM	AADT * 1.226	85	13.01	39.70	36.55	2000	7.4	A	A
4.30-5.30 PM	AADT * 1.226	85	13.77	42.03	38.70	2000	7.2	A	A
4.30-5.30 PM	AADT * 1.226	85	14.54	44.37	40.85	2000	7.1	A	A
4.30-5.30 PM	AADT * 1.226	85	15.30	46.70	43.00	2000	6.9	A	A
4.30-5.30 PM	AADT * 1.226	85	16.07	49.04	45.15	2000	6.8	A	A
4.30-5.30 PM	AADT * 1.226	85	16.83	51.37	47.30	2000	6.7	A	A
4.30-5.30 PM	AADT * 1.226	85	17.60	53.71	49.45	2000	6.6	A	A
4.30-5.30 PM	AADT * 1.226	85	18.36	56.04	51.60	2000	6.5	A	A
4.30-5.30 PM	AADT * 1.226	85	19.13	58.38	53.75	2000	6.4	A	A
4.30-5.30 PM	AADT * 1.226	85	19.89	60.71	55.90	2000	6.4	A	A
4.30-5.30 PM	AADT * 1.226	85	20.66	63.05	58.05	2000	6.3	A	A
4.30-5.30 PM	AADT * 1.226	85	21.42	65.38	60.20	2000	6.2	A	A
4.30-5.30 PM	AADT * 1.226	85	22.19	67.72	62.35	2000	6.2	A	A
4.30-5.30 PM	AADT * 1.226	85	22.95	70.05	64.50	2000	6.1	A	A
4.30-5.30 PM	AADT * 1.84	85	7.65	23.35	21.50	3000	266.4	F	F
4.30-5.30 PM	AADT * 1.84	85	8.42	25.69	23.65	3000	250.8	F	F
4.30-5.30 PM	AADT * 1.84	85	9.18	28.02	25.80	3000	237.3	F	F
4.30-5.30 PM	AADT * 1.84	85	9.95	30.36	27.95	3000	225.5	F	F
4.30-5.30 PM	AADT * 1.84	85	10.71	32.69	30.10	3000	215.1	F	F
4.30-5.30 PM	AADT * 1.84	85	11.48	35.03	32.25	3000	205.8	F	F
4.30-5.30 PM	AADT * 1.84	85	12.24	37.36	34.40	3000	197.6	F	F
4.30-5.30 PM	AADT * 1.84	85	13.01	39.70	36.55	3000	190.2	F	F
4.30-5.30 PM	AADT * 1.84	85	13.77	42.03	38.70	3000	183.5	F	F
4.30-5.30 PM	AADT * 1.84	85	14.54	44.37	40.85	3000	177.5	F	F
4.30-5.30 PM	AADT * 1.84	85	15.30	46.70	43.00	3000	172	F	F
4.30-5.30 PM	AADT * 1.84	85	16.07	49.04	45.15	3000	166.9	F	F

4.30-5.30 PM	AADT * 1.84	85	16.83	51.37	47.30	3000	162.1	F	F
4.30-5.30 PM	AADT * 1.84	85	17.60	53.71	49.45	3000	157.8	F	F
4.30-5.30 PM	AADT * 1.84	85	18.36	56.04	51.60	3000	153.9	F	F
4.30-5.30 PM	AADT * 1.84	85	19.13	58.38	53.75	3000	150.2	F	F
4.30-5.30 PM	AADT * 1.84	85	19.89	60.71	55.90	3000	146.9	F	F
4.30-5.30 PM	AADT * 1.84	85	20.66	63.05	58.05	3000	143.7	F	F
4.30-5.30 PM	AADT * 1.84	85	21.42	65.38	60.20	3000	140.8	F	F
4.30-5.30 PM	AADT * 1.84	85	22.19	67.72	62.35	3000	137.2	F	F
4.30-5.30 PM	AADT * 1.84	85	22.95	70.05	64.50	3000	135.4	F	F
4.30-5.30 PM	AADT * 2.452	85	7.65	23.35	21.50	4000	708.8	F	F
4.30-5.30 PM	AADT * 2.452	85	8.42	25.69	23.65	4000	689.4	F	F
4.30-5.30 PM	AADT * 2.452	85	9.18	28.02	25.80	4000	672.1	F	F
4.30-5.30 PM	AADT * 2.452	85	9.95	30.36	27.95	4000	656.7	F	F
4.30-5.30 PM	AADT * 2.452	85	10.71	32.69	30.10	4000	642.8	F	F
4.30-5.30 PM	AADT * 2.452	85	11.48	35.03	32.25	4000	630.2	F	F
4.30-5.30 PM	AADT * 2.452	85	12.24	37.36	34.40	4000	618.9	F	F
4.30-5.30 PM	AADT * 2.452	85	13.01	39.70	36.55	4000	608.5	F	F
4.30-5.30 PM	AADT * 2.452	85	13.77	42.03	38.70	4000	599	F	F
4.30-5.30 PM	AADT * 2.452	85	14.54	44.37	40.85	4000	590.3	F	F
4.30-5.30 PM	AADT * 2.452	85	15.30	46.70	43.00	4000	582.3	F	F
4.30-5.30 PM	AADT * 2.452	85	16.07	49.04	45.15	4000	574.8	F	F
4.30-5.30 PM	AADT * 2.452	85	16.83	51.37	47.30	4000	567.9	F	F
4.30-5.30 PM	AADT * 2.452	85	17.60	53.71	49.45	4000	561.5	F	F
4.30-5.30 PM	AADT * 2.452	85	18.36	56.04	51.60	4000	555.6	F	F
4.30-5.30 PM	AADT * 2.452	85	19.13	58.38	53.75	4000	550	F	F
4.30-5.30 PM	AADT * 2.452	85	19.89	60.71	55.90	4000	544.9	F	F
4.30-5.30 PM	AADT * 2.452	85	20.66	63.05	58.05	4000	540	F	F
4.30-5.30 PM	AADT * 2.452	85	21.42	65.38	60.20	4000	535.3	F	F
4.30-5.30 PM	AADT * 2.452	85	22.19	67.72	62.35	4000	531	F	F
4.30-5.30 PM	AADT * 2.452	85	22.95	70.05	64.50	4000	526.9	F	F

Entry Radius for Congestoga/Can-Amera Roundabout

Timeframe	AADT Assumptions	CL	ENTRY RADIUS- CONGESTOGA	ENTRY RADIUS - CAN AMERA EAST	ENTRY RADIUS - CAN AMERA WEST	AADT	AVERAGE DELAY	LOS SIG	LOS UNSIG
8.30-9.30 AM	AADT * 1	50	17.50	12.50	12.50	841	2.3	A	A
8.30-9.30 AM	AADT * 1	50	19.25	13.75	13.75	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	21.00	15.00	15.00	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	22.75	16.25	16.25	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	24.50	17.50	17.50	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	26.25	18.75	18.75	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	28.00	20.00	20.00	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	29.75	21.25	21.25	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	31.50	22.50	22.50	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	33.25	23.75	23.75	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	35.00	25.00	25.00	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	36.75	26.25	26.25	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	38.50	27.50	27.50	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	40.25	28.75	28.75	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	42.00	30.00	30.00	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	43.75	31.25	31.25	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	45.50	32.50	32.50	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	47.25	33.75	33.75	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	49.00	35.00	35.00	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	50.75	36.25	36.25	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	52.50	37.50	37.50	841	2.1	A	A
8.30-9.30 AM	AADT * 2.378	50	17.50	12.50	12.50	2000	5.8	A	A
8.30-9.30 AM	AADT * 2.378	50	19.25	13.75	13.75	2000	5.6	A	A
8.30-9.30 AM	AADT * 2.378	50	21.00	15.00	15.00	2000	5.5	A	A
8.30-9.30 AM	AADT * 2.378	50	22.75	16.25	16.25	2000	5.5	A	A
8.30-9.30 AM	AADT * 2.378	50	24.50	17.50	17.50	2000	5.4	A	A
8.30-9.30 AM	AADT * 2.378	50	26.25	18.75	18.75	2000	5.3	A	A
8.30-9.30 AM	AADT * 2.378	50	28.00	20.00	20.00	2000	5.3	A	A
8.30-9.30 AM	AADT * 2.378	50	29.75	21.25	21.25	2000	5.2	A	A
8.30-9.30 AM	AADT * 2.378	50	31.50	22.50	22.50	2000	5.2	A	A
8.30-9.30 AM	AADT * 2.378	50	33.25	23.75	23.75	2000	5.1	A	A
8.30-9.30 AM	AADT * 2.378	50	35.00	25.00	25.00	2000	5.1	A	A
8.30-9.30 AM	AADT * 2.378	50	36.75	26.25	26.25	2000	5.1	A	A
8.30-9.30 AM	AADT * 2.378	50	38.50	27.50	27.50	2000	5.1	A	A
8.30-9.30 AM	AADT * 2.378	50	40.25	28.75	28.75	2000	5	A	A
8.30-9.30 AM	AADT * 2.378	50	42.00	30.00	30.00	2000	5	A	A
8.30-9.30 AM	AADT * 2.378	50	43.75	31.25	31.25	2000	5	A	A
8.30-9.30 AM	AADT * 2.378	50	45.50	32.50	32.50	2000	5	A	A
8.30-9.30 AM	AADT * 2.378	50	47.25	33.75	33.75	2000	5	A	A
8.30-9.30 AM	AADT * 2.378	50	49.00	35.00	35.00	2000	5	A	A
8.30-9.30 AM	AADT * 2.378	50	50.75	36.25	36.25	2000	4.9	A	A
8.30-9.30 AM	AADT * 2.378	50	52.50	37.50	37.50	2000	4.9	A	A
8.30-9.30 AM	AADT * 3.567	50	17.50	12.50	12.50	3000	211.8	F	F

8.30-9.30 AM	AADT * 3.567	50	19.25	13.75	13.75	3000	206.8	F	F
8.30-9.30 AM	AADT * 3.567	50	21.00	15.00	15.00	3000	202.7	F	F
8.30-9.30 AM	AADT * 3.567	50	22.75	16.25	16.25	3000	199.3	F	F
8.30-9.30 AM	AADT * 3.567	50	24.50	17.50	17.50	3000	196.4	F	F
8.30-9.30 AM	AADT * 3.567	50	26.25	18.75	18.75	3000	193.9	F	F
8.30-9.30 AM	AADT * 3.567	50	28.00	20.00	20.00	3000	191.8	F	F
8.30-9.30 AM	AADT * 3.567	50	29.75	21.25	21.25	3000	189.9	F	F
8.30-9.30 AM	AADT * 3.567	50	31.50	22.50	22.50	3000	188.2	F	F
8.30-9.30 AM	AADT * 3.567	50	33.25	23.75	23.75	3000	186.7	F	F
8.30-9.30 AM	AADT * 3.567	50	35.00	25.00	25.00	3000	185.4	F	F
8.30-9.30 AM	AADT * 3.567	50	36.75	26.25	26.25	3000	184.2	F	F
8.30-9.30 AM	AADT * 3.567	50	38.50	27.50	27.50	3000	183.1	F	F
8.30-9.30 AM	AADT * 3.567	50	40.25	28.75	28.75	3000	182.2	F	F
8.30-9.30 AM	AADT * 3.567	50	42.00	30.00	30.00	3000	181.3	F	F
8.30-9.30 AM	AADT * 3.567	50	43.75	31.25	31.25	3000	180.5	F	F
8.30-9.30 AM	AADT * 3.567	50	45.50	32.50	32.50	3000	179.7	F	F
8.30-9.30 AM	AADT * 3.567	50	47.25	33.75	33.75	3000	179	F	F
8.30-9.30 AM	AADT * 3.567	50	49.00	35.00	35.00	3000	178.4	F	F
8.30-9.30 AM	AADT * 3.567	50	50.75	36.25	36.25	3000	177.8	F	F
8.30-9.30 AM	AADT * 3.567	50	52.50	37.50	37.50	3000	177.2	F	F
8.30-9.30 AM	AADT * 4.756	50	17.50	12.50	12.50	4000	585.1	F	F
8.30-9.30 AM	AADT * 4.756	50	19.25	13.75	13.75	4000	579.9	F	F
8.30-9.30 AM	AADT * 4.756	50	21.00	15.00	15.00	4000	575.6	F	F
8.30-9.30 AM	AADT * 4.756	50	22.75	16.25	16.25	4000	572	F	F
8.30-9.30 AM	AADT * 4.756	50	24.50	17.50	17.50	4000	568.9	F	F
8.30-9.30 AM	AADT * 4.756	50	26.25	18.75	18.75	4000	566.2	F	F
8.30-9.30 AM	AADT * 4.756	50	28.00	20.00	20.00	4000	563.8	F	F
8.30-9.30 AM	AADT * 4.756	50	29.75	21.25	21.25	4000	561.8	F	F
8.30-9.30 AM	AADT * 4.756	50	31.50	22.50	22.50	4000	559.9	F	F
8.30-9.30 AM	AADT * 4.756	50	33.25	23.75	23.75	4000	558.3	F	F
8.30-9.30 AM	AADT * 4.756	50	35.00	25.00	25.00	4000	556.8	F	F
8.30-9.30 AM	AADT * 4.756	50	36.75	26.25	26.25	4000	555.4	F	F
8.30-9.30 AM	AADT * 4.756	50	38.50	27.50	27.50	4000	554.2	F	F
8.30-9.30 AM	AADT * 4.756	50	40.25	28.75	28.75	4000	553.1	F	F
8.30-9.30 AM	AADT * 4.756	50	42.00	30.00	30.00	4000	552.1	F	F
8.30-9.30 AM	AADT * 4.756	50	43.75	31.25	31.25	4000	551.2	F	F
8.30-9.30 AM	AADT * 4.756	50	45.50	32.50	32.50	4000	550.3	F	F
8.30-9.30 AM	AADT * 4.756	50	47.25	33.75	33.75	4000	549.5	F	F
8.30-9.30 AM	AADT * 4.756	50	49.00	35.00	35.00	4000	548.7	F	F
8.30-9.30 AM	AADT * 4.756	50	50.75	36.25	36.25	4000	548.1	F	F
8.30-9.30 AM	AADT * 4.756	50	52.50	37.50	37.50	4000	547.4	F	F
12.30-1.30 PM	AADT * 1	50	17.50	12.50	12.50	1096	2.7	A	A
12.30-1.30 PM	AADT * 1	50	19.25	13.75	13.75	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	21.00	15.00	15.00	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	22.75	16.25	16.25	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	24.50	17.50	17.50	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	26.25	18.75	18.75	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	28.00	20.00	20.00	1096	2.6	A	A

12.30-1.30 PM	AADT * 1	50	29.75	21.25	21.25	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	31.50	22.50	22.50	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	33.25	23.75	23.75	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	35.00	25.00	25.00	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	36.75	26.25	26.25	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	38.50	27.50	27.50	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	40.25	28.75	28.75	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	42.00	30.00	30.00	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	43.75	31.25	31.25	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	45.50	32.50	32.50	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	47.25	33.75	33.75	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	49.00	35.00	35.00	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	50.75	36.25	36.25	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	52.50	37.50	37.50	1096	2.5	A	A
12.30-1.30 PM	AADT *1.82	50	17.50	12.50	12.50	2000	5	A	A
12.30-1.30 PM	AADT *1.82	50	19.25	13.75	13.75	2000	4.9	A	A
12.30-1.30 PM	AADT *1.82	50	21.00	15.00	15.00	2000	4.9	A	A
12.30-1.30 PM	AADT *1.82	50	22.75	16.25	16.25	2000	4.8	A	A
12.30-1.30 PM	AADT *1.82	50	24.50	17.50	17.50	2000	4.8	A	A
12.30-1.30 PM	AADT *1.82	50	26.25	18.75	18.75	2000	4.8	A	A
12.30-1.30 PM	AADT *1.82	50	28.00	20.00	20.00	2000	4.7	A	A
12.30-1.30 PM	AADT *1.82	50	29.75	21.25	21.25	2000	4.7	A	A
12.30-1.30 PM	AADT *1.82	50	31.50	22.50	22.50	2000	4.7	A	A
12.30-1.30 PM	AADT *1.82	50	33.25	23.75	23.75	2000	4.7	A	A
12.30-1.30 PM	AADT *1.82	50	35.00	25.00	25.00	2000	4.6	A	A
12.30-1.30 PM	AADT *1.82	50	36.75	26.25	26.25	2000	4.6	A	A
12.30-1.30 PM	AADT *1.82	50	38.50	27.50	27.50	2000	4.6	A	A
12.30-1.30 PM	AADT *1.82	50	40.25	28.75	28.75	2000	4.6	A	A
12.30-1.30 PM	AADT *1.82	50	42.00	30.00	30.00	2000	4.6	A	A
12.30-1.30 PM	AADT *1.82	50	43.75	31.25	31.25	2000	4.6	A	A
12.30-1.30 PM	AADT *1.82	50	45.50	32.50	32.50	2000	4.6	A	A
12.30-1.30 PM	AADT *1.82	50	47.25	33.75	33.75	2000	4.5	A	A
12.30-1.30 PM	AADT *1.82	50	49.00	35.00	35.00	2000	4.5	A	A
12.30-1.30 PM	AADT *1.82	50	50.75	36.25	36.25	2000	4.5	A	A
12.30-1.30 PM	AADT *1.82	50	52.50	37.50	37.50	2000	4.5	A	A
12.30-1.30 PM	AADT * 2.737	50	17.50	12.50	12.50	3000	100.2	F	F
12.30-1.30 PM	AADT * 2.737	50	19.25	13.75	13.75	3000	96.9	F	F
12.30-1.30 PM	AADT * 2.737	50	21.00	15.00	15.00	3000	94.2	F	F
12.30-1.30 PM	AADT * 2.737	50	22.75	16.25	16.25	3000	91.9	F	F
12.30-1.30 PM	AADT * 2.737	50	24.50	17.50	17.50	3000	90	F	F
12.30-1.30 PM	AADT * 2.737	50	26.25	18.75	18.75	3000	88.3	F	F
12.30-1.30 PM	AADT * 2.737	50	28.00	20.00	20.00	3000	86.9	F	F
12.30-1.30 PM	AADT * 2.737	50	29.75	21.25	21.25	3000	85.6	F	F
12.30-1.30 PM	AADT * 2.737	50	31.50	22.50	22.50	3000	84.5	F	F
12.30-1.30 PM	AADT * 2.737	50	33.25	23.75	23.75	3000	83.6	F	F
12.30-1.30 PM	AADT * 2.737	50	35.00	25.00	25.00	3000	82.7	F	F
12.30-1.30 PM	AADT * 2.737	50	36.75	26.25	26.25	3000	81.9	F	F
12.30-1.30 PM	AADT * 2.737	50	38.50	27.50	27.50	3000	81.2	F	F

12.30-1.30 PM	AADT * 2.737	50	40.25	28.75	28.75	3000	80.5	F	F
12.30-1.30 PM	AADT * 2.737	50	42.00	30.00	30.00	3000	79.9	E	F
12.30-1.30 PM	AADT * 2.737	50	43.75	31.25	31.25	3000	79.4	E	F
12.30-1.30 PM	AADT * 2.737	50	45.50	32.50	32.50	3000	78.9	E	F
12.30-1.30 PM	AADT * 2.737	50	47.25	33.75	33.75	3000	78.4	E	F
12.30-1.30 PM	AADT * 2.737	50	49.00	35.00	35.00	3000	78	E	F
12.30-1.30 PM	AADT * 2.737	50	50.75	36.25	36.25	3000	77.6	E	F
12.30-1.30 PM	AADT * 2.737	50	52.50	37.50	37.50	3000	77.1	E	F
12.30-1.30 PM	AADT *3.65	50	17.50	12.50	12.50	4000	471.4	F	F
12.30-1.30 PM	AADT *3.65	50	19.25	13.75	13.75	4000	465.3	F	F
12.30-1.30 PM	AADT *3.65	50	21.00	15.00	15.00	4000	460.4	F	F
12.30-1.30 PM	AADT *3.65	50	22.75	16.25	16.25	4000	456.3	F	F
12.30-1.30 PM	AADT *3.65	50	24.50	17.50	17.50	4000	452.7	F	F
12.30-1.30 PM	AADT *3.65	50	26.25	18.75	18.75	4000	449.7	F	F
12.30-1.30 PM	AADT *3.65	50	28.00	20.00	20.00	4000	447	F	F
12.30-1.30 PM	AADT *3.65	50	29.75	21.25	21.25	4000	444.7	F	F
12.30-1.30 PM	AADT *3.65	50	31.50	22.50	22.50	4000	442.7	F	F
12.30-1.30 PM	AADT *3.65	50	33.25	23.75	23.75	4000	440.9	F	F
12.30-1.30 PM	AADT *3.65	50	35.00	25.00	25.00	4000	439.2	F	F
12.30-1.30 PM	AADT *3.65	50	36.75	26.25	26.25	4000	437.8	F	F
12.30-1.30 PM	AADT *3.65	50	38.50	27.50	27.50	4000	436.4	F	F
12.30-1.30 PM	AADT *3.65	50	40.25	28.75	28.75	4000	435.2	F	F
12.30-1.30 PM	AADT *3.65	50	42.00	30.00	30.00	4000	434.1	F	F
12.30-1.30 PM	AADT *3.65	50	43.75	31.25	31.25	4000	433.1	F	F
12.30-1.30 PM	AADT *3.65	50	45.50	32.50	32.50	4000	432.2	F	F
12.30-1.30 PM	AADT *3.65	50	47.25	33.75	33.75	4000	431.3	F	F
12.30-1.30 PM	AADT *3.65	50	49.00	35.00	35.00	4000	430.5	F	F
12.30-1.30 PM	AADT *3.65	50	50.75	36.25	36.25	4000	429.8	F	F
12.30-1.30 PM	AADT *3.65	50	52.50	37.50	37.50	4000	429.1	F	F
4.30-5.30 PM	AADT * 1	50	17.50	12.50	12.50	1631	3.7	A	A
4.30-5.30 PM	AADT * 1	50	19.25	13.75	13.75	1631	3.7	A	A
4.30-5.30 PM	AADT * 1	50	21.00	15.00	15.00	1631	3.7	A	A
4.30-5.30 PM	AADT * 1	50	22.75	16.25	16.25	1631	3.6	A	A
4.30-5.30 PM	AADT * 1	50	24.50	17.50	17.50	1631	3.6	A	A
4.30-5.30 PM	AADT * 1	50	26.25	18.75	18.75	1631	3.6	A	A
4.30-5.30 PM	AADT * 1	50	28.00	20.00	20.00	1631	3.6	A	A
4.30-5.30 PM	AADT * 1	50	29.75	21.25	21.25	1631	3.6	A	A
4.30-5.30 PM	AADT * 1	50	31.50	22.50	22.50	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	50	33.25	23.75	23.75	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	50	35.00	25.00	25.00	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	50	36.75	26.25	26.25	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	50	38.50	27.50	27.50	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	50	40.25	28.75	28.75	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	50	42.00	30.00	30.00	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	50	43.75	31.25	31.25	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	50	45.50	32.50	32.50	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	50	47.25	33.75	33.75	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	50	49.00	35.00	35.00	1631	3.5	A	A

4.30-5.30 PM	AADT * 1	50	50.75	36.25	36.25	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	50	52.50	37.50	37.50	1631	3.5	A	A
4.30-5.30 PM	AADT * 1.226	50	17.50	12.50	12.50	2000	5.1	A	A
4.30-5.30 PM	AADT * 1.226	50	19.25	13.75	13.75	2000	5.1	A	A
4.30-5.30 PM	AADT * 1.226	50	21.00	15.00	15.00	2000	5	A	A
4.30-5.30 PM	AADT * 1.226	50	22.75	16.25	16.25	2000	5	A	A
4.30-5.30 PM	AADT * 1.226	50	24.50	17.50	17.50	2000	4.9	A	A
4.30-5.30 PM	AADT * 1.226	50	26.25	18.75	18.75	2000	4.9	A	A
4.30-5.30 PM	AADT * 1.226	50	28.00	20.00	20.00	2000	4.9	A	A
4.30-5.30 PM	AADT * 1.226	50	29.75	21.25	21.25	2000	4.8	A	A
4.30-5.30 PM	AADT * 1.226	50	31.50	22.50	22.50	2000	4.8	A	A
4.30-5.30 PM	AADT * 1.226	50	33.25	23.75	23.75	2000	4.8	A	A
4.30-5.30 PM	AADT * 1.226	50	35.00	25.00	25.00	2000	4.8	A	A
4.30-5.30 PM	AADT * 1.226	50	36.75	26.25	26.25	2000	4.7	A	A
4.30-5.30 PM	AADT * 1.226	50	38.50	27.50	27.50	2000	4.7	A	A
4.30-5.30 PM	AADT * 1.226	50	40.25	28.75	28.75	2000	4.7	A	A
4.30-5.30 PM	AADT * 1.226	50	42.00	30.00	30.00	2000	4.7	A	A
4.30-5.30 PM	AADT * 1.226	50	43.75	31.25	31.25	2000	4.7	A	A
4.30-5.30 PM	AADT * 1.226	50	45.50	32.50	32.50	2000	4.7	A	A
4.30-5.30 PM	AADT * 1.226	50	47.25	33.75	33.75	2000	4.7	A	A
4.30-5.30 PM	AADT * 1.226	50	49.00	35.00	35.00	2000	4.7	A	A
4.30-5.30 PM	AADT * 1.226	50	50.75	36.25	36.25	2000	4.7	A	A
4.30-5.30 PM	AADT * 1.226	50	52.50	37.50	37.50	2000	4.7	A	A
4.30-5.30 PM	AADT * 1.84	50	17.50	12.50	12.50	3000	85.4	F	F
4.30-5.30 PM	AADT * 1.84	50	19.25	13.75	13.75	3000	82	F	F
4.30-5.30 PM	AADT * 1.84	50	21.00	15.00	15.00	3000	79.2	E	F
4.30-5.30 PM	AADT * 1.84	50	22.75	16.25	16.25	3000	76.9	E	F
4.30-5.30 PM	AADT * 1.84	50	24.50	17.50	17.50	3000	74.9	E	F
4.30-5.30 PM	AADT * 1.84	50	26.25	18.75	18.75	3000	73.2	E	F
4.30-5.30 PM	AADT * 1.84	50	28.00	20.00	20.00	3000	71.8	E	F
4.30-5.30 PM	AADT * 1.84	50	29.75	21.25	21.25	3000	70.5	E	F
4.30-5.30 PM	AADT * 1.84	50	31.50	22.50	22.50	3000	69.4	E	F
4.30-5.30 PM	AADT * 1.84	50	33.25	23.75	23.75	3000	68.3	E	F
4.30-5.30 PM	AADT * 1.84	50	35.00	25.00	25.00	3000	67.4	E	F
4.30-5.30 PM	AADT * 1.84	50	36.75	26.25	26.25	3000	66.6	E	F
4.30-5.30 PM	AADT * 1.84	50	38.50	27.50	27.50	3000	65.9	E	F
4.30-5.30 PM	AADT * 1.84	50	40.25	28.75	28.75	3000	65.2	E	F
4.30-5.30 PM	AADT * 1.84	50	42.00	30.00	30.00	3000	64.6	E	F
4.30-5.30 PM	AADT * 1.84	50	43.75	31.25	31.25	3000	64.1	E	F
4.30-5.30 PM	AADT * 1.84	50	45.50	32.50	32.50	3000	63.5	E	F
4.30-5.30 PM	AADT * 1.84	50	47.25	33.75	33.75	3000	63.1	E	F
4.30-5.30 PM	AADT * 1.84	50	49.00	35.00	35.00	3000	62.6	E	F
4.30-5.30 PM	AADT * 1.84	50	50.75	36.25	36.25	3000	62.2	E	F
4.30-5.30 PM	AADT * 1.84	50	52.50	37.50	37.50	3000	61.8	E	F
4.30-5.30 PM	AADT * 2.452	50	17.50	12.50	12.50	4000	441.9	F	F
4.30-5.30 PM	AADT * 2.452	50	19.25	13.75	13.75	4000	435.8	F	F
4.30-5.30 PM	AADT * 2.452	50	21.00	15.00	15.00	4000	430.8	F	F
4.30-5.30 PM	AADT * 2.452	50	22.75	16.25	16.25	4000	426.6	F	F

4.30-5.30 PM	AADT * 2.452	50	24.50	17.50	17.50	4000	423.1	F	F
4.30-5.30 PM	AADT * 2.452	50	26.25	18.75	18.75	4000	419.9	F	F
4.30-5.30 PM	AADT * 2.452	50	28.00	20.00	20.00	4000	417.2	F	F
4.30-5.30 PM	AADT * 2.452	50	29.75	21.25	21.25	4000	414.9	F	F
4.30-5.30 PM	AADT * 2.452	50	31.50	22.50	22.50	4000	412.8	F	F
4.30-5.30 PM	AADT * 2.452	50	33.25	23.75	23.75	4000	410.9	F	F
4.30-5.30 PM	AADT * 2.452	50	35.00	25.00	25.00	4000	409.3	F	F
4.30-5.30 PM	AADT * 2.452	50	36.75	26.25	26.25	4000	407.8	F	F
4.30-5.30 PM	AADT * 2.452	50	38.50	27.50	27.50	4000	406.5	F	F
4.30-5.30 PM	AADT * 2.452	50	40.25	28.75	28.75	4000	405.2	F	F
4.30-5.30 PM	AADT * 2.452	50	42.00	30.00	30.00	4000	404.1	F	F
4.30-5.30 PM	AADT * 2.452	50	43.75	31.25	31.25	4000	403.1	F	F
4.30-5.30 PM	AADT * 2.452	50	45.50	32.50	32.50	4000	402.1	F	F
4.30-5.30 PM	AADT * 2.452	50	47.25	33.75	33.75	4000	401.3	F	F
4.30-5.30 PM	AADT * 2.452	50	49.00	35.00	35.00	4000	400.5	F	F
4.30-5.30 PM	AADT * 2.452	50	50.75	36.25	36.25	4000	399.7	F	F
4.30-5.30 PM	AADT * 2.452	50	52.50	37.50	37.50	4000	399	F	F
8.30-9.30 AM	AADT * 1	85	17.50	12.50	12.50	841	2.6	A	A
8.30-9.30 AM	AADT * 1	85	19.25	13.75	13.75	841	2.6	A	A
8.30-9.30 AM	AADT * 1	85	21.00	15.00	15.00	841	2.6	A	A
8.30-9.30 AM	AADT * 1	85	22.75	16.25	16.25	841	2.6	A	A
8.30-9.30 AM	AADT * 1	85	24.50	17.50	17.50	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	26.25	18.75	18.75	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	28.00	20.00	20.00	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	29.75	21.25	21.25	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	31.50	22.50	22.50	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	33.25	23.75	23.75	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	35.00	25.00	25.00	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	36.75	26.25	26.25	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	38.50	27.50	27.50	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	40.25	28.75	28.75	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	42.00	30.00	30.00	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	43.75	31.25	31.25	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	45.50	32.50	32.50	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	47.25	33.75	33.75	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	49.00	35.00	35.00	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	50.75	36.25	36.25	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	52.50	37.50	37.50	841	2.4	A	A
8.30-9.30 AM	AADT * 2.378	85	17.50	12.50	12.50	2000	11.4	B	B
8.30-9.30 AM	AADT * 2.378	85	19.25	13.75	13.75	2000	10.8	B	B
8.30-9.30 AM	AADT * 2.378	85	21.00	15.00	15.00	2000	10.4	B	B
8.30-9.30 AM	AADT * 2.378	85	22.75	16.25	16.25	2000	10	B	B
8.30-9.30 AM	AADT * 2.378	85	24.50	17.50	17.50	2000	9.7	A	A
8.30-9.30 AM	AADT * 2.378	85	26.25	18.75	18.75	2000	9.5	A	A
8.30-9.30 AM	AADT * 2.378	85	28.00	20.00	20.00	2000	9.3	A	A
8.30-9.30 AM	AADT * 2.378	85	29.75	21.25	21.25	2000	9.1	A	A
8.30-9.30 AM	AADT * 2.378	85	31.50	22.50	22.50	2000	9	A	A
8.30-9.30 AM	AADT * 2.378	85	33.25	23.75	23.75	2000	8.9	A	A

8.30-9.30 AM	AADT * 2.378	85	35.00	25.00	25.00	2000	8.8	A	A
8.30-9.30 AM	AADT * 2.378	85	36.75	26.25	26.25	2000	8.7	A	A
8.30-9.30 AM	AADT * 2.378	85	38.50	27.50	27.50	2000	8.6	A	A
8.30-9.30 AM	AADT * 2.378	85	40.25	28.75	28.75	2000	8.5	A	A
8.30-9.30 AM	AADT * 2.378	85	42.00	30.00	30.00	2000	8.4	A	A
8.30-9.30 AM	AADT * 2.378	85	43.75	31.25	31.25	2000	8.4	A	A
8.30-9.30 AM	AADT * 2.378	85	45.50	32.50	32.50	2000	8.3	A	A
8.30-9.30 AM	AADT * 2.378	85	47.25	33.75	33.75	2000	8.3	A	A
8.30-9.30 AM	AADT * 2.378	85	49.00	35.00	35.00	2000	8.2	A	A
8.30-9.30 AM	AADT * 2.378	85	50.75	36.25	36.25	2000	8.2	A	A
8.30-9.30 AM	AADT * 2.378	85	52.50	37.50	37.50	2000	8.2	A	A
8.30-9.30 AM	AADT * 3.567	85	17.50	12.50	12.50	3000	336.1	F	F
8.30-9.30 AM	AADT * 3.567	85	19.25	13.75	13.75	3000	329.8	F	F
8.30-9.30 AM	AADT * 3.567	85	21.00	15.00	15.00	3000	324.6	F	F
8.30-9.30 AM	AADT * 3.567	85	22.75	16.25	16.25	3000	320.3	F	F
8.30-9.30 AM	AADT * 3.567	85	24.50	17.50	17.50	3000	316.6	F	F
8.30-9.30 AM	AADT * 3.567	85	26.25	18.75	18.75	3000	313.5	F	F
8.30-9.30 AM	AADT * 3.567	85	28.00	20.00	20.00	3000	310.7	F	F
8.30-9.30 AM	AADT * 3.567	85	29.75	21.25	21.25	3000	308.3	F	F
8.30-9.30 AM	AADT * 3.567	85	31.50	22.50	22.50	3000	306.2	F	F
8.30-9.30 AM	AADT * 3.567	85	33.25	23.75	23.75	3000	304.3	F	F
8.30-9.30 AM	AADT * 3.567	85	35.00	25.00	25.00	3000	302.6	F	F
8.30-9.30 AM	AADT * 3.567	85	36.75	26.25	26.25	3000	301.1	F	F
8.30-9.30 AM	AADT * 3.567	85	38.50	27.50	27.50	3000	299.7	F	F
8.30-9.30 AM	AADT * 3.567	85	40.25	28.75	28.75	3000	298.4	F	F
8.30-9.30 AM	AADT * 3.567	85	42.00	30.00	30.00	3000	297.2	F	F
8.30-9.30 AM	AADT * 3.567	85	43.75	31.25	31.25	3000	296.2	F	F
8.30-9.30 AM	AADT * 3.567	85	45.50	32.50	32.50	3000	295.2	F	F
8.30-9.30 AM	AADT * 3.567	85	47.25	33.75	33.75	3000	294.3	F	F
8.30-9.30 AM	AADT * 3.567	85	49.00	35.00	35.00	3000	293.4	F	F
8.30-9.30 AM	AADT * 3.567	85	50.75	36.25	36.25	3000	292.7	F	F
8.30-9.30 AM	AADT * 3.567	85	52.50	37.50	37.50	3000	291.9	F	F
8.30-9.30 AM	AADT * 4.756	85	17.50	12.50	12.50	4000	721.8	F	F
8.30-9.30 AM	AADT * 4.756	85	19.25	13.75	13.75	4000	716.6	F	F
8.30-9.30 AM	AADT * 4.756	85	21.00	15.00	15.00	4000	712.2	F	F
8.30-9.30 AM	AADT * 4.756	85	22.75	16.25	16.25	4000	708.4	F	F
8.30-9.30 AM	AADT * 4.756	85	24.50	17.50	17.50	4000	705.3	F	F
8.30-9.30 AM	AADT * 4.756	85	26.25	18.75	18.75	4000	702.5	F	F
8.30-9.30 AM	AADT * 4.756	85	28.00	20.00	20.00	4000	700.1	F	F
8.30-9.30 AM	AADT * 4.756	85	29.75	21.25	21.25	4000	697.9	F	F
8.30-9.30 AM	AADT * 4.756	85	31.50	22.50	22.50	4000	696.1	F	F
8.30-9.30 AM	AADT * 4.756	85	33.25	23.75	23.75	4000	694.4	F	F
8.30-9.30 AM	AADT * 4.756	85	35.00	25.00	25.00	4000	692.8	F	F
8.30-9.30 AM	AADT * 4.756	85	36.75	26.25	26.25	4000	691.5	F	F
8.30-9.30 AM	AADT * 4.756	85	38.50	27.50	27.50	4000	690.2	F	F
8.30-9.30 AM	AADT * 4.756	85	40.25	28.75	28.75	4000	689.1	F	F
8.30-9.30 AM	AADT * 4.756	85	42.00	30.00	30.00	4000	688	F	F
8.30-9.30 AM	AADT * 4.756	85	43.75	31.25	31.25	4000	687.1	F	F

8.30-9.30 AM	AADT * 4.756	85	45.50	32.50	32.50	4000	686.2	F	F
8.30-9.30 AM	AADT * 4.756	85	47.25	33.75	33.75	4000	685.4	F	F
8.30-9.30 AM	AADT * 4.756	85	49.00	35.00	35.00	4000	684.6	F	F
8.30-9.30 AM	AADT * 4.756	85	50.75	36.25	36.25	4000	683.9	F	F
8.30-9.30 AM	AADT * 4.756	85	52.50	37.50	37.50	4000	683.2	F	F
12.30-1.30 PM	AADT * 1	85	17.50	12.50	12.50	1096	3.2	A	A
12.30-1.30 PM	AADT * 1	85	19.25	13.75	13.75	1096	3.2	A	A
12.30-1.30 PM	AADT * 1	85	21.00	15.00	15.00	1096	3.2	A	A
12.30-1.30 PM	AADT * 1	85	22.75	16.25	16.25	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	24.50	17.50	17.50	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	26.25	18.75	18.75	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	28.00	20.00	20.00	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	29.75	21.25	21.25	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	31.50	22.50	22.50	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	33.25	23.75	23.75	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	35.00	25.00	25.00	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	36.75	26.25	26.25	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	38.50	27.50	27.50	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	40.25	28.75	28.75	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	42.00	30.00	30.00	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	43.75	31.25	31.25	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	45.50	32.50	32.50	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	47.25	33.75	33.75	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	49.00	35.00	35.00	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	50.75	36.25	36.25	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	52.50	37.50	37.50	1096	3	A	A
12.30-1.30 PM	AADT * 1.82	85	17.50	12.50	12.50	2000	7.4	A	A
12.30-1.30 PM	AADT * 3.478	85	19.25	13.75	13.75	2000	7.3	A	A
12.30-1.30 PM	AADT * 3.478	85	21.00	15.00	15.00	2000	7.1	A	A
12.30-1.30 PM	AADT * 3.478	85	22.75	16.25	16.25	2000	7	A	A
12.30-1.30 PM	AADT * 3.478	85	24.50	17.50	17.50	2000	6.9	A	A
12.30-1.30 PM	AADT * 3.478	85	26.25	18.75	18.75	2000	6.9	A	A
12.30-1.30 PM	AADT * 3.478	85	28.00	20.00	20.00	2000	6.8	A	A
12.30-1.30 PM	AADT * 3.478	85	29.75	21.25	21.25	2000	6.7	A	A
12.30-1.30 PM	AADT * 3.478	85	31.50	22.50	22.50	2000	6.7	A	A
12.30-1.30 PM	AADT * 3.478	85	33.25	23.75	23.75	2000	6.6	A	A
12.30-1.30 PM	AADT * 3.478	85	35.00	25.00	25.00	2000	6.6	A	A
12.30-1.30 PM	AADT * 3.478	85	36.75	26.25	26.25	2000	6.6	A	A
12.30-1.30 PM	AADT * 3.478	85	38.50	27.50	27.50	2000	6.5	A	A
12.30-1.30 PM	AADT * 3.478	85	40.25	28.75	28.75	2000	6.5	A	A
12.30-1.30 PM	AADT * 3.478	85	42.00	30.00	30.00	2000	6.5	A	A
12.30-1.30 PM	AADT * 3.478	85	43.75	31.25	31.25	2000	6.5	A	A
12.30-1.30 PM	AADT * 3.478	85	45.50	32.50	32.50	2000	6.4	A	A
12.30-1.30 PM	AADT * 3.478	85	47.25	33.75	33.75	2000	6.4	A	A
12.30-1.30 PM	AADT * 3.478	85	49.00	35.00	35.00	2000	6.4	A	A
12.30-1.30 PM	AADT * 3.478	85	50.75	36.25	36.25	2000	6.4	A	A
12.30-1.30 PM	AADT * 3.478	85	52.50	37.50	37.50	2000	6.4	A	A
12.30-1.30 PM	AADT * 2.737	85	17.50	12.50	12.50	3000	217.1	F	F

12.30-1.30 PM	AADT * 2.737	85	19.25	13.75	13.75	3000	211.4	F	F
12.30-1.30 PM	AADT * 2.737	85	21.00	15.00	15.00	3000	206.7	F	F
12.30-1.30 PM	AADT * 2.737	85	22.75	16.25	16.25	3000	202.7	F	F
12.30-1.30 PM	AADT * 2.737	85	24.50	17.50	17.50	3000	199.4	F	F
12.30-1.30 PM	AADT * 2.737	85	26.25	18.75	18.75	3000	196.6	F	F
12.30-1.30 PM	AADT * 2.737	85	28.00	20.00	20.00	3000	194.1	F	F
12.30-1.30 PM	AADT * 2.737	85	29.75	21.25	21.25	3000	192	F	F
12.30-1.30 PM	AADT * 2.737	85	31.50	22.50	22.50	3000	190.1	F	F
12.30-1.30 PM	AADT * 2.737	85	33.25	23.75	23.75	3000	188.4	F	F
12.30-1.30 PM	AADT * 2.737	85	35.00	25.00	25.00	3000	186.9	F	F
12.30-1.30 PM	AADT * 2.737	85	36.75	26.25	26.25	3000	185.5	F	F
12.30-1.30 PM	AADT * 2.737	85	38.50	27.50	27.50	3000	184.3	F	F
12.30-1.30 PM	AADT * 2.737	85	40.25	28.75	28.75	3000	183.2	F	F
12.30-1.30 PM	AADT * 2.737	85	42.00	30.00	30.00	3000	182.2	F	F
12.30-1.30 PM	AADT * 2.737	85	43.75	31.25	31.25	3000	181.3	F	F
12.30-1.30 PM	AADT * 2.737	85	45.50	32.50	32.50	3000	180.4	F	F
12.30-1.30 PM	AADT * 2.737	85	47.25	33.75	33.75	3000	179.6	F	F
12.30-1.30 PM	AADT * 2.737	85	49.00	35.00	35.00	3000	178.9	F	F
12.30-1.30 PM	AADT * 2.737	85	50.75	36.25	36.25	3000	178.2	F	F
12.30-1.30 PM	AADT * 2.737	85	52.50	37.50	37.50	3000	177.6	F	F
12.30-1.30 PM	AADT *3.65	85	17.50	12.50	12.50	4000	655.2	F	F
12.30-1.30 PM	AADT *3.65	85	19.25	13.75	13.75	4000	647.7	F	F
12.30-1.30 PM	AADT *3.65	85	21.00	15.00	15.00	4000	641.7	F	F
12.30-1.30 PM	AADT *3.65	85	22.75	16.25	16.25	4000	636.5	F	F
12.30-1.30 PM	AADT *3.65	85	24.50	17.50	17.50	4000	632.1	F	F
12.30-1.30 PM	AADT *3.65	85	26.25	18.75	18.75	4000	628.3	F	F
12.30-1.30 PM	AADT *3.65	85	28.00	20.00	20.00	4000	624.9	F	F
12.30-1.30 PM	AADT *3.65	85	29.75	21.25	21.25	4000	622	F	F
12.30-1.30 PM	AADT *3.65	85	31.50	22.50	22.50	4000	619.4	F	F
12.30-1.30 PM	AADT *3.65	85	33.25	23.75	23.75	4000	617.1	F	F
12.30-1.30 PM	AADT *3.65	85	35.00	25.00	25.00	4000	615.1	F	F
12.30-1.30 PM	AADT *3.65	85	36.75	26.25	26.25	4000	613.2	F	F
12.30-1.30 PM	AADT *3.65	85	38.50	27.50	27.50	4000	611.5	F	F
12.30-1.30 PM	AADT *3.65	85	40.25	28.75	28.75	4000	609.9	F	F
12.30-1.30 PM	AADT *3.65	85	42.00	30.00	30.00	4000	608.5	F	F
12.30-1.30 PM	AADT *3.65	85	43.75	31.25	31.25	4000	607.2	F	F
12.30-1.30 PM	AADT *3.65	85	45.50	32.50	32.50	4000	606	F	F
12.30-1.30 PM	AADT *3.65	85	47.25	33.75	33.75	4000	604.9	F	F
12.30-1.30 PM	AADT *3.65	85	49.00	35.00	35.00	4000	603.9	F	F
12.30-1.30 PM	AADT *3.65	85	50.75	36.25	36.25	4000	603	F	F
12.30-1.30 PM	AADT *3.65	85	52.50	37.50	37.50	4000	602.1	F	F
4.30-5.30 PM	AADT * 1	85	17.50	12.50	12.50	1631	4.9	A	A
4.30-5.30 PM	AADT * 1	85	19.25	13.75	13.75	1631	4.8	A	A
4.30-5.30 PM	AADT * 1	85	21.00	15.00	15.00	1631	4.8	A	A
4.30-5.30 PM	AADT * 1	85	22.75	16.25	16.25	1631	4.7	A	A
4.30-5.30 PM	AADT * 1	85	24.50	17.50	17.50	1631	4.7	A	A
4.30-5.30 PM	AADT * 1	85	26.25	18.75	18.75	1631	4.6	A	A
4.30-5.30 PM	AADT * 1	85	28.00	20.00	20.00	1631	4.6	A	A

4.30-5.30 PM	AADT * 1	85	29.75	21.25	21.25	1631	4.6	A	A
4.30-5.30 PM	AADT * 1	85	31.50	22.50	22.50	1631	4.6	A	A
4.30-5.30 PM	AADT * 1	85	33.25	23.75	23.75	1631	4.5	A	A
4.30-5.30 PM	AADT * 1	85	35.00	25.00	25.00	1631	4.5	A	A
4.30-5.30 PM	AADT * 1	85	36.75	26.25	26.25	1631	4.5	A	A
4.30-5.30 PM	AADT * 1	85	38.50	27.50	27.50	1631	4.5	A	A
4.30-5.30 PM	AADT * 1	85	40.25	28.75	28.75	1631	4.5	A	A
4.30-5.30 PM	AADT * 1	85	42.00	30.00	30.00	1631	4.5	A	A
4.30-5.30 PM	AADT * 1	85	43.75	31.25	31.25	1631	4.5	A	A
4.30-5.30 PM	AADT * 1	85	45.50	32.50	32.50	1631	4.5	A	A
4.30-5.30 PM	AADT * 1	85	47.25	33.75	33.75	1631	4.4	A	A
4.30-5.30 PM	AADT * 1	85	49.00	35.00	35.00	1631	4.4	A	A
4.30-5.30 PM	AADT * 1	85	50.75	36.25	36.25	1631	4.4	A	A
4.30-5.30 PM	AADT * 1	85	52.50	37.50	37.50	1631	4.4	A	A
4.30-5.30 PM	AADT * 1.226	85	17.50	12.50	12.50	2000	7.8	A	A
4.30-5.30 PM	AADT * 1.226	85	19.25	13.75	13.75	2000	7.6	A	A
4.30-5.30 PM	AADT * 1.226	85	21.00	15.00	15.00	2000	7.5	A	A
4.30-5.30 PM	AADT * 1.226	85	22.75	16.25	16.25	2000	7.4	A	A
4.30-5.30 PM	AADT * 1.226	85	24.50	17.50	17.50	2000	7.3	A	A
4.30-5.30 PM	AADT * 1.226	85	26.25	18.75	18.75	2000	7.2	A	A
4.30-5.30 PM	AADT * 1.226	85	28.00	20.00	20.00	2000	7.1	A	A
4.30-5.30 PM	AADT * 1.226	85	29.75	21.25	21.25	2000	7.1	A	A
4.30-5.30 PM	AADT * 1.226	85	31.50	22.50	22.50	2000	7	A	A
4.30-5.30 PM	AADT * 1.226	85	33.25	23.75	23.75	2000	7	A	A
4.30-5.30 PM	AADT * 1.226	85	35.00	25.00	25.00	2000	6.9	A	A
4.30-5.30 PM	AADT * 1.226	85	36.75	26.25	26.25	2000	6.9	A	A
4.30-5.30 PM	AADT * 1.226	85	38.50	27.50	27.50	2000	6.9	A	A
4.30-5.30 PM	AADT * 1.226	85	40.25	28.75	28.75	2000	6.8	A	A
4.30-5.30 PM	AADT * 1.226	85	42.00	30.00	30.00	2000	6.8	A	A
4.30-5.30 PM	AADT * 1.226	85	43.75	31.25	31.25	2000	6.8	A	A
4.30-5.30 PM	AADT * 1.226	85	45.50	32.50	32.50	2000	6.8	A	A
4.30-5.30 PM	AADT * 1.226	85	47.25	33.75	33.75	2000	6.7	A	A
4.30-5.30 PM	AADT * 1.226	85	49.00	35.00	35.00	2000	6.7	A	A
4.30-5.30 PM	AADT * 1.226	85	50.75	36.25	36.25	2000	6.7	A	A
4.30-5.30 PM	AADT * 1.226	85	52.50	37.50	37.50	2000	6.7	A	A
4.30-5.30 PM	AADT * 1.84	85	17.50	12.50	12.50	3000	201.7	F	F
4.30-5.30 PM	AADT * 1.84	85	19.25	13.75	13.75	3000	196.1	F	F
4.30-5.30 PM	AADT * 1.84	85	21.00	15.00	15.00	3000	191.5	F	F
4.30-5.30 PM	AADT * 1.84	85	22.75	16.25	16.25	3000	187.6	F	F
4.30-5.30 PM	AADT * 1.84	85	24.50	17.50	17.50	3000	184.3	F	F
4.30-5.30 PM	AADT * 1.84	85	26.25	18.75	18.75	3000	181.5	F	F
4.30-5.30 PM	AADT * 1.84	85	28.00	20.00	20.00	3000	179.1	F	F
4.30-5.30 PM	AADT * 1.84	85	29.75	21.25	21.25	3000	177	F	F
4.30-5.30 PM	AADT * 1.84	85	31.50	22.50	22.50	3000	175.1	F	F
4.30-5.30 PM	AADT * 1.84	85	33.25	23.75	23.75	3000	173.4	F	F
4.30-5.30 PM	AADT * 1.84	85	35.00	25.00	25.00	3000	172	F	F
4.30-5.30 PM	AADT * 1.84	85	36.75	26.25	26.25	3000	170.6	F	F
4.30-5.30 PM	AADT * 1.84	85	38.50	27.50	27.50	3000	169.4	F	F

4.30-5.30 PM	AADT * 1.84	85	40.25	28.75	28.75	3000	168.2	F	F
4.30-5.30 PM	AADT * 1.84	85	42.00	30.00	30.00	3000	167.2	F	F
4.30-5.30 PM	AADT * 1.84	85	43.75	31.25	31.25	3000	166.3	F	F
4.30-5.30 PM	AADT * 1.84	85	45.50	32.50	32.50	3000	165.4	F	F
4.30-5.30 PM	AADT * 1.84	85	47.25	33.75	33.75	3000	164.6	F	F
4.30-5.30 PM	AADT * 1.84	85	49.00	35.00	35.00	3000	163.9	F	F
4.30-5.30 PM	AADT * 1.84	85	50.75	36.25	36.25	3000	163.2	F	F
4.30-5.30 PM	AADT * 1.84	85	52.50	37.50	37.50	3000	162.6	F	F
4.30-5.30 PM	AADT * 2.452	85	17.50	12.50	12.50	4000	623	F	F
4.30-5.30 PM	AADT * 2.452	85	19.25	13.75	13.75	4000	615.5	F	F
4.30-5.30 PM	AADT * 2.452	85	21.00	15.00	15.00	4000	609.2	F	F
4.30-5.30 PM	AADT * 2.452	85	22.75	16.25	16.25	4000	604	F	F
4.30-5.30 PM	AADT * 2.452	85	24.50	17.50	17.50	4000	599.5	F	F
4.30-5.30 PM	AADT * 2.452	85	26.25	18.75	18.75	4000	595.6	F	F
4.30-5.30 PM	AADT * 2.452	85	28.00	20.00	20.00	4000	592.3	F	F
4.30-5.30 PM	AADT * 2.452	85	29.75	21.25	21.25	4000	589.3	F	F
4.30-5.30 PM	AADT * 2.452	85	31.50	22.50	22.50	4000	586.1	F	F
4.30-5.30 PM	AADT * 2.452	85	33.25	23.75	23.75	4000	584.4	F	F
4.30-5.30 PM	AADT * 2.452	85	35.00	25.00	25.00	4000	582.3	F	F
4.30-5.30 PM	AADT * 2.452	85	36.75	26.25	26.25	4000	580.3	F	F
4.30-5.30 PM	AADT * 2.452	85	38.50	27.50	27.50	4000	578.6	F	F
4.30-5.30 PM	AADT * 2.452	85	40.25	28.75	28.75	4000	577	F	F
4.30-5.30 PM	AADT * 2.452	85	42.00	30.00	30.00	4000	575.6	F	F
4.30-5.30 PM	AADT * 2.452	85	43.75	31.25	31.25	4000	574.3	F	F
4.30-5.30 PM	AADT * 2.452	85	45.50	32.50	32.50	4000	573	F	F
4.30-5.30 PM	AADT * 2.452	85	47.25	33.75	33.75	4000	571.9	F	F
4.30-5.30 PM	AADT * 2.452	85	49.00	35.00	35.00	4000	570.9	F	F
4.30-5.30 PM	AADT * 2.452	85	50.75	36.25	36.25	4000	569.9	F	F
4.30-5.30 PM	AADT * 2.452	85	52.50	37.50	37.50	4000	569	F	F

Entry Angle (PHI) for Congestoga/Can-Amera Roundabout

Timeframe	AADT Assumptions	CL	PHI ANGLE- CONGESTOGA	PHI ANGLE - CAN AMERA EAST	PHI ANGLE - CAN AMERA WEST	AADT	AVERAGE DELAY	LOS SIG	LOS UNSIG
8.30-9.30 AM	AADT * 1	50	15.50	12.50	18.50	841	2	A	A
8.30-9.30 AM	AADT * 1	50	17.05	13.75	20.35	841	2	A	A
8.30-9.30 AM	AADT * 1	50	18.60	15.00	22.20	841	2	A	A
8.30-9.30 AM	AADT * 1	50	20.15	16.25	24.05	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	21.70	17.50	25.90	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	23.25	18.75	27.75	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	24.80	20.00	29.60	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	26.35	21.25	31.45	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	27.90	22.50	33.30	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	29.45	23.75	35.15	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	31.00	25.00	37.00	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	32.55	26.25	38.85	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	34.10	27.50	40.70	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	35.65	28.75	42.55	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	37.20	30.00	44.40	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	38.75	31.25	46.25	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	40.30	32.50	48.10	841	2.3	A	A
8.30-9.30 AM	AADT * 1	50	41.85	33.75	49.95	841	2.3	A	A
8.30-9.30 AM	AADT * 1	50	43.40	35.00	51.80	841	2.3	A	A
8.30-9.30 AM	AADT * 1	50	44.95	36.25	53.65	841	2.3	A	A
8.30-9.30 AM	AADT * 1	50	46.50	37.50	55.50	841	2.3	A	A
8.30-9.30 AM	AADT * 2.378	50	15.50	12.50	18.50	2000	4.3	A	A
8.30-9.30 AM	AADT * 2.378	50	17.05	13.75	20.35	2000	4.4	A	A
8.30-9.30 AM	AADT * 2.378	50	18.60	15.00	22.20	2000	4.5	A	A
8.30-9.30 AM	AADT * 2.378	50	20.15	16.25	24.05	2000	4.5	A	A
8.30-9.30 AM	AADT * 2.378	50	21.70	17.50	25.90	2000	4.6	A	A
8.30-9.30 AM	AADT * 2.378	50	23.25	18.75	27.75	2000	4.7	A	A
8.30-9.30 AM	AADT * 2.378	50	24.80	20.00	29.60	2000	4.8	A	A
8.30-9.30 AM	AADT * 2.378	50	26.35	21.25	31.45	2000	4.9	A	A
8.30-9.30 AM	AADT * 2.378	50	27.90	22.50	33.30	2000	4.9	A	A
8.30-9.30 AM	AADT * 2.378	50	29.45	23.75	35.15	2000	5	A	A
8.30-9.30 AM	AADT * 2.378	50	31.00	25.00	37.00	2000	5.1	A	A
8.30-9.30 AM	AADT * 2.378	50	32.55	26.25	38.85	2000	5.2	A	A
8.30-9.30 AM	AADT * 2.378	50	34.10	27.50	40.70	2000	5.3	A	A
8.30-9.30 AM	AADT * 2.378	50	35.65	28.75	42.55	2000	5.4	A	A
8.30-9.30 AM	AADT * 2.378	50	37.20	30.00	44.40	2000	5.5	A	A
8.30-9.30 AM	AADT * 2.378	50	38.75	31.25	46.25	2000	5.6	A	A
8.30-9.30 AM	AADT * 2.378	50	40.30	32.50	48.10	2000	5.8	A	A
8.30-9.30 AM	AADT * 2.378	50	41.85	33.75	49.95	2000	5.9	A	A
8.30-9.30 AM	AADT * 2.378	50	43.40	35.00	51.80	2000	6	A	A
8.30-9.30 AM	AADT * 2.378	50	44.95	36.25	53.65	2000	6.2	A	A
8.30-9.30 AM	AADT * 2.378	50	46.50	37.50	55.50	2000	6.3	A	A
8.30-9.30 AM	AADT * 3.567	50	15.50	12.50	18.50	3000	148.2	F	F
8.30-9.30 AM	AADT * 3.567	50	17.05	13.75	20.35	3000	151.6	F	F

8.30-9.30 AM	AADT * 3.567	50	18.60	15.00	22.20	3000	155.1	F	F
8.30-9.30 AM	AADT * 3.567	50	20.15	16.25	24.05	3000	158.6	F	F
8.30-9.30 AM	AADT * 3.567	50	21.70	17.50	25.90	3000	162.2	F	F
8.30-9.30 AM	AADT * 3.567	50	23.25	18.75	27.75	3000	166	F	F
8.30-9.30 AM	AADT * 3.567	50	24.80	20.00	29.60	3000	169.6	F	F
8.30-9.30 AM	AADT * 3.567	50	26.35	21.25	31.45	3000	173.4	F	F
8.30-9.30 AM	AADT * 3.567	50	27.90	22.50	33.30	3000	177.3	F	F
8.30-9.30 AM	AADT * 3.567	50	29.45	23.75	35.15	3000	181.3	F	F
8.30-9.30 AM	AADT * 3.567	50	31.00	25.00	37.00	3000	185.4	F	F
8.30-9.30 AM	AADT * 3.567	50	32.55	26.25	38.85	3000	189.6	F	F
8.30-9.30 AM	AADT * 3.567	50	34.10	27.50	40.70	3000	193.8	F	F
8.30-9.30 AM	AADT * 3.567	50	35.65	28.75	42.55	3000	198.1	F	F
8.30-9.30 AM	AADT * 3.567	50	37.20	30.00	44.40	3000	202.5	F	F
8.30-9.30 AM	AADT * 3.567	50	38.75	31.25	46.25	3000	206.9	F	F
8.30-9.30 AM	AADT * 3.567	50	40.30	32.50	48.10	3000	211.4	F	F
8.30-9.30 AM	AADT * 3.567	50	41.85	33.75	49.95	3000	215.9	F	F
8.30-9.30 AM	AADT * 3.567	50	43.40	35.00	51.80	3000	220.5	F	F
8.30-9.30 AM	AADT * 3.567	50	44.95	36.25	53.65	3000	225.2	F	F
8.30-9.30 AM	AADT * 3.567	50	46.50	37.50	55.50	3000	229.9	F	F
8.30-9.30 AM	AADT * 4.756	50	15.50	12.50	18.50	4000	510.9	F	F
8.30-9.30 AM	AADT * 4.756	50	17.05	13.75	20.35	4000	515.5	F	F
8.30-9.30 AM	AADT * 4.756	50	18.60	15.00	22.20	4000	520	F	F
8.30-9.30 AM	AADT * 4.756	50	20.15	16.25	24.05	4000	524.6	F	F
8.30-9.30 AM	AADT * 4.756	50	21.70	17.50	25.90	4000	529.2	F	F
8.30-9.30 AM	AADT * 4.756	50	23.25	18.75	27.75	4000	533.7	F	F
8.30-9.30 AM	AADT * 4.756	50	24.80	20.00	29.60	4000	538.3	F	F
8.30-9.30 AM	AADT * 4.756	50	26.35	21.25	31.45	4000	542.9	F	F
8.30-9.30 AM	AADT * 4.756	50	27.90	22.50	33.30	4000	547.5	F	F
8.30-9.30 AM	AADT * 4.756	50	29.45	23.75	35.15	4000	552.2	F	F
8.30-9.30 AM	AADT * 4.756	50	31.00	25.00	37.00	4000	556.8	F	F
8.30-9.30 AM	AADT * 4.756	50	32.55	26.25	38.85	4000	561.4	F	F
8.30-9.30 AM	AADT * 4.756	50	34.10	27.50	40.70	4000	566.1	F	F
8.30-9.30 AM	AADT * 4.756	50	35.65	28.75	42.55	4000	570.7	F	F
8.30-9.30 AM	AADT * 4.756	50	37.20	30.00	44.40	4000	575.3	F	F
8.30-9.30 AM	AADT * 4.756	50	38.75	31.25	46.25	4000	580	F	F
8.30-9.30 AM	AADT * 4.756	50	40.30	32.50	48.10	4000	584.7	F	F
8.30-9.30 AM	AADT * 4.756	50	41.85	33.75	49.95	4000	589.3	F	F
8.30-9.30 AM	AADT * 4.756	50	43.40	35.00	51.80	4000	594	F	F
8.30-9.30 AM	AADT * 4.756	50	44.95	36.25	53.65	4000	598.7	F	F
8.30-9.30 AM	AADT * 4.756	50	46.50	37.50	55.50	4000	603.4	F	F
12.30-1.30 PM	AADT * 1	50	15.50	12.50	18.50	1096	2.4	A	A
12.30-1.30 PM	AADT * 1	50	17.05	13.75	20.35	1096	2.4	A	A
12.30-1.30 PM	AADT * 1	50	18.60	15.00	22.20	1096	2.4	A	A
12.30-1.30 PM	AADT * 1	50	20.15	16.25	24.05	1096	2.4	A	A
12.30-1.30 PM	AADT * 1	50	21.70	17.50	25.90	1096	2.4	A	A
12.30-1.30 PM	AADT * 1	50	23.25	18.75	27.75	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	24.80	20.00	29.60	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	26.35	21.25	31.45	1096	2.5	A	A

12.30-1.30 PM	AADT * 1	50	27.90	22.50	33.30	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	29.45	23.75	35.15	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	31.00	25.00	37.00	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	32.55	26.25	38.85	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	34.10	27.50	40.70	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	35.65	28.75	42.55	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	37.20	30.00	44.40	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	38.75	31.25	46.25	1096	2.7	A	A
12.30-1.30 PM	AADT * 1	50	40.30	32.50	48.10	1096	2.7	A	A
12.30-1.30 PM	AADT * 1	50	41.85	33.75	49.95	1096	2.7	A	A
12.30-1.30 PM	AADT * 1	50	43.40	35.00	51.80	1096	2.7	A	A
12.30-1.30 PM	AADT * 1	50	44.95	36.25	53.65	1096	2.7	A	A
12.30-1.30 PM	AADT * 1	50	46.50	37.50	55.50	1096	2.8	A	A
12.30-1.30 PM	AADT * 1.82	50	15.50	12.50	18.50	2000	4.1	A	A
12.30-1.30 PM	AADT * 1.82	50	17.05	13.75	20.35	2000	4.2	A	A
12.30-1.30 PM	AADT * 1.82	50	18.60	15.00	22.20	2000	4.2	A	A
12.30-1.30 PM	AADT * 1.82	50	20.15	16.25	24.05	2000	4.3	A	A
12.30-1.30 PM	AADT * 1.82	50	21.70	17.50	25.90	2000	4.3	A	A
12.30-1.30 PM	AADT * 1.82	50	23.25	18.75	27.75	2000	4.4	A	A
12.30-1.30 PM	AADT * 1.82	50	24.80	20.00	29.60	2000	4.4	A	A
12.30-1.30 PM	AADT * 1.82	50	26.35	21.25	31.45	2000	4.5	A	A
12.30-1.30 PM	AADT * 1.82	50	27.90	22.50	33.30	2000	4.5	A	A
12.30-1.30 PM	AADT * 1.82	50	29.45	23.75	35.15	2000	4.6	A	A
12.30-1.30 PM	AADT * 1.82	50	31.00	25.00	37.00	2000	4.6	A	A
12.30-1.30 PM	AADT * 1.82	50	32.55	26.25	38.85	2000	4.7	A	A
12.30-1.30 PM	AADT * 1.82	50	34.10	27.50	40.70	2000	4.8	A	A
12.30-1.30 PM	AADT * 1.82	50	35.65	28.75	42.55	2000	4.8	A	A
12.30-1.30 PM	AADT * 1.82	50	37.20	30.00	44.40	2000	4.9	A	A
12.30-1.30 PM	AADT * 1.82	50	38.75	31.25	46.25	2000	5	A	A
12.30-1.30 PM	AADT * 1.82	50	40.30	32.50	48.10	2000	5	A	A
12.30-1.30 PM	AADT * 1.82	50	41.85	33.75	49.95	2000	5.1	A	A
12.30-1.30 PM	AADT * 1.82	50	43.40	35.00	51.80	2000	5.2	A	A
12.30-1.30 PM	AADT * 1.82	50	44.95	36.25	53.65	2000	5.2	A	A
12.30-1.30 PM	AADT * 1.82	50	46.50	37.50	55.50	2000	5.3	A	A
12.30-1.30 PM	AADT * 2.737	50	15.50	12.50	18.50	3000	56.8	E	F
12.30-1.30 PM	AADT * 2.737	50	17.05	13.75	20.35	3000	59.2	E	F
12.30-1.30 PM	AADT * 2.737	50	18.60	15.00	22.20	3000	61.6	E	F
12.30-1.30 PM	AADT * 2.737	50	20.15	16.25	24.05	3000	64.1	E	F
12.30-1.30 PM	AADT * 2.737	50	21.70	17.50	25.90	3000	66.6	E	F
12.30-1.30 PM	AADT * 2.737	50	23.25	18.75	27.75	3000	69.2	E	F
12.30-1.30 PM	AADT * 2.737	50	24.80	20.00	29.60	3000	71.8	E	F
12.30-1.30 PM	AADT * 2.737	50	26.35	21.25	31.45	3000	74.4	E	F
12.30-1.30 PM	AADT * 2.737	50	27.90	22.50	33.30	3000	77.1	E	F
12.30-1.30 PM	AADT * 2.737	50	29.45	23.75	35.15	3000	79.9	E	F
12.30-1.30 PM	AADT * 2.737	50	31.00	25.00	37.00	3000	82.7	F	F
12.30-1.30 PM	AADT * 2.737	50	32.55	26.25	38.85	3000	85.5	F	F
12.30-1.30 PM	AADT * 2.737	50	34.10	27.50	40.70	3000	88.4	F	F
12.30-1.30 PM	AADT * 2.737	50	35.65	28.75	42.55	3000	91.4	F	F

12.30-1.30 PM	AADT * 2.737	50	37.20	30.00	44.40	3000	94.4	F	F
12.30-1.30 PM	AADT * 2.737	50	38.75	31.25	46.25	3000	97.5	F	F
12.30-1.30 PM	AADT * 2.737	50	40.30	32.50	48.10	3000	100.6	F	F
12.30-1.30 PM	AADT * 2.737	50	41.85	33.75	49.95	3000	103.9	F	F
12.30-1.30 PM	AADT * 2.737	50	43.40	35.00	51.80	3000	107.2	F	F
12.30-1.30 PM	AADT * 2.737	50	44.95	36.25	53.65	3000	110.5	F	F
12.30-1.30 PM	AADT * 2.737	50	46.50	37.50	55.50	3000	113.9	F	F
12.30-1.30 PM	AADT * 3.65	50	15.50	12.50	18.50	4000	389.7	F	F
12.30-1.30 PM	AADT * 3.65	50	17.05	13.75	20.35	4000	394.3	F	F
12.30-1.30 PM	AADT * 3.65	50	18.60	15.00	22.20	4000	399	F	F
12.30-1.30 PM	AADT * 3.65	50	20.15	16.25	24.05	4000	403.7	F	F
12.30-1.30 PM	AADT * 3.65	50	21.70	17.50	25.90	4000	408.6	F	F
12.30-1.30 PM	AADT * 3.65	50	23.25	18.75	27.75	4000	413.5	F	F
12.30-1.30 PM	AADT * 3.65	50	24.80	20.00	29.60	4000	418.5	F	F
12.30-1.30 PM	AADT * 3.65	50	26.35	21.25	31.45	4000	423.5	F	F
12.30-1.30 PM	AADT * 3.65	50	27.90	22.50	33.30	4000	428.7	F	F
12.30-1.30 PM	AADT * 3.65	50	29.45	23.75	35.15	4000	433.9	F	F
12.30-1.30 PM	AADT * 3.65	50	31.00	25.00	37.00	4000	439.2	F	F
12.30-1.30 PM	AADT * 3.65	50	32.55	26.25	38.85	4000	444.6	F	F
12.30-1.30 PM	AADT * 3.65	50	34.10	27.50	40.70	4000	450.1	F	F
12.30-1.30 PM	AADT * 3.65	50	35.65	28.75	42.55	4000	455.7	F	F
12.30-1.30 PM	AADT * 3.65	50	37.20	30.00	44.40	4000	461.3	F	F
12.30-1.30 PM	AADT * 3.65	50	38.75	31.25	46.25	4000	467	F	F
12.30-1.30 PM	AADT * 3.65	50	40.30	32.50	48.10	4000	472.8	F	F
12.30-1.30 PM	AADT * 3.65	50	41.85	33.75	49.95	4000	478.6	F	F
12.30-1.30 PM	AADT * 3.65	50	43.40	35.00	51.80	4000	484.5	F	F
12.30-1.30 PM	AADT * 3.65	50	44.95	36.25	53.65	4000	490.5	F	F
12.30-1.30 PM	AADT * 3.65	50	46.50	37.50	55.50	4000	496.7	F	F
4.30-5.30 PM	AADT * 1	50	15.50	12.50	18.50	1631	3.2	A	A
4.30-5.30 PM	AADT * 1	50	17.05	13.75	20.35	1631	3.2	A	A
4.30-5.30 PM	AADT * 1	50	18.60	15.00	22.20	1631	3.3	A	A
4.30-5.30 PM	AADT * 1	50	20.15	16.25	24.05	1631	3.3	A	A
4.30-5.30 PM	AADT * 1	50	21.70	17.50	25.90	1631	3.3	A	A
4.30-5.30 PM	AADT * 1	50	23.25	18.75	27.75	1631	3.4	A	A
4.30-5.30 PM	AADT * 1	50	24.80	20.00	29.60	1631	3.4	A	A
4.30-5.30 PM	AADT * 1	50	26.35	21.25	31.45	1631	3.4	A	A
4.30-5.30 PM	AADT * 1	50	27.90	22.50	33.30	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	50	29.45	23.75	35.15	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	50	31.00	25.00	37.00	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	50	32.55	26.25	38.85	1631	3.6	A	A
4.30-5.30 PM	AADT * 1	50	34.10	27.50	40.70	1631	3.6	A	A
4.30-5.30 PM	AADT * 1	50	35.65	28.75	42.55	1631	3.6	A	A
4.30-5.30 PM	AADT * 1	50	37.20	30.00	44.40	1631	3.7	A	A
4.30-5.30 PM	AADT * 1	50	38.75	31.25	46.25	1631	3.7	A	A
4.30-5.30 PM	AADT * 1	50	40.30	32.50	48.10	1631	3.8	A	A
4.30-5.30 PM	AADT * 1	50	41.85	33.75	49.95	1631	3.8	A	A
4.30-5.30 PM	AADT * 1	50	43.40	35.00	51.80	1631	3.8	A	A
4.30-5.30 PM	AADT * 1	50	44.95	36.25	53.65	1631	3.9	A	A

4.30-5.30 PM	AADT * 1	50	46.50	37.50	55.50	1631	3.9	A	A
4.30-5.30 PM	AADT * 1.226	50	15.50	12.50	18.50	2000	4	A	A
4.30-5.30 PM	AADT * 1.226	50	17.05	13.75	20.35	2000	4	A	A
4.30-5.30 PM	AADT * 1.226	50	18.60	15.00	22.20	2000	4.1	A	A
4.30-5.30 PM	AADT * 1.226	50	20.15	16.25	24.05	2000	4.1	A	A
4.30-5.30 PM	AADT * 1.226	50	21.70	17.50	25.90	2000	4.2	A	A
4.30-5.30 PM	AADT * 1.226	50	23.25	18.75	27.75	2000	4.2	A	A
4.30-5.30 PM	AADT * 1.226	50	24.80	20.00	29.60	2000	4.3	A	A
4.30-5.30 PM	AADT * 1.226	50	26.35	21.25	31.45	2000	4.3	A	A
4.30-5.30 PM	AADT * 1.226	50	27.90	22.50	33.30	2000	4.4	A	A
4.30-5.30 PM	AADT * 1.226	50	29.45	23.75	35.15	2000	4.4	A	A
4.30-5.30 PM	AADT * 1.226	50	31.00	25.00	37.00	2000	4.5	A	A
4.30-5.30 PM	AADT * 1.226	50	32.55	26.25	38.85	2000	4.5	A	A
4.30-5.30 PM	AADT * 1.226	50	34.10	27.50	40.70	2000	4.6	A	A
4.30-5.30 PM	AADT * 1.226	50	35.65	28.75	42.55	2000	4.6	A	A
4.30-5.30 PM	AADT * 1.226	50	37.20	30.00	44.40	2000	4.7	A	A
4.30-5.30 PM	AADT * 1.226	50	38.75	31.25	46.25	2000	4.8	A	A
4.30-5.30 PM	AADT * 1.226	50	40.30	32.50	48.10	2000	4.8	A	A
4.30-5.30 PM	AADT * 1.226	50	41.85	33.75	49.95	2000	4.9	A	A
4.30-5.30 PM	AADT * 1.226	50	43.40	35.00	51.80	2000	5	A	A
4.30-5.30 PM	AADT * 1.226	50	44.95	36.25	53.65	2000	5	A	A
4.30-5.30 PM	AADT * 1.226	50	46.50	37.50	55.50	2000	5.1	A	A
4.30-5.30 PM	AADT * 1.84	50	15.50	12.50	18.50	3000	40.9	D	E
4.30-5.30 PM	AADT * 1.84	50	17.05	13.75	20.35	3000	42.8	D	E
4.30-5.30 PM	AADT * 1.84	50	18.60	15.00	22.20	3000	44.8	D	E
4.30-5.30 PM	AADT * 1.84	50	20.15	16.25	24.05	3000	47	D	E
4.30-5.30 PM	AADT * 1.84	50	21.70	17.50	25.90	3000	49.6	D	E
4.30-5.30 PM	AADT * 1.84	50	23.25	18.75	27.75	3000	52.5	D	F
4.30-5.30 PM	AADT * 1.84	50	24.80	20.00	29.60	3000	55.4	E	F
4.30-5.30 PM	AADT * 1.84	50	26.35	21.25	31.45	3000	58.3	E	F
4.30-5.30 PM	AADT * 1.84	50	27.90	22.50	33.30	3000	61.3	E	F
4.30-5.30 PM	AADT * 1.84	50	29.45	23.75	35.15	3000	64.3	E	F
4.30-5.30 PM	AADT * 1.84	50	31.00	25.00	37.00	3000	67.4	E	F
4.30-5.30 PM	AADT * 1.84	50	32.55	26.25	38.85	3000	70.6	E	F
4.30-5.30 PM	AADT * 1.84	50	34.10	27.50	40.70	3000	73.8	E	F
4.30-5.30 PM	AADT * 1.84	50	35.65	28.75	42.55	3000	77.1	E	F
4.30-5.30 PM	AADT * 1.84	50	37.20	30.00	44.40	3000	80.4	F	F
4.30-5.30 PM	AADT * 1.84	50	38.75	31.25	46.25	3000	83.7	F	F
4.30-5.30 PM	AADT * 1.84	50	40.30	32.50	48.10	3000	87.1	F	F
4.30-5.30 PM	AADT * 1.84	50	41.85	33.75	49.95	3000	90.6	F	F
4.30-5.30 PM	AADT * 1.84	50	43.40	35.00	51.80	3000	94.1	F	F
4.30-5.30 PM	AADT * 1.84	50	44.95	36.25	53.65	3000	97.8	F	F
4.30-5.30 PM	AADT * 1.84	50	46.50	37.50	55.50	3000	101.4	F	F
4.30-5.30 PM	AADT * 2.452	50	15.50	12.50	18.50	4000	357.3	F	F
4.30-5.30 PM	AADT * 2.452	50	17.05	13.75	20.35	4000	362.2	F	F
4.30-5.30 PM	AADT * 2.452	50	18.60	15.00	22.20	4000	367.2	F	F
4.30-5.30 PM	AADT * 2.452	50	20.15	16.25	24.05	4000	372.2	F	F
4.30-5.30 PM	AADT * 2.452	50	21.70	17.50	25.90	4000	377.3	F	F

4.30-5.30 PM	AADT * 2.452	50	23.25	18.75	27.75	4000	382.4	F	F
4.30-5.30 PM	AADT * 2.452	50	24.80	20.00	29.60	4000	387.7	F	F
4.30-5.30 PM	AADT * 2.452	50	26.35	21.25	31.45	4000	393	F	F
4.30-5.30 PM	AADT * 2.452	50	27.90	22.50	33.30	4000	398.3	F	F
4.30-5.30 PM	AADT * 2.452	50	29.45	23.75	35.15	4000	403.8	F	F
4.30-5.30 PM	AADT * 2.452	50	31.00	25.00	37.00	4000	409.3	F	F
4.30-5.30 PM	AADT * 2.452	50	32.55	26.25	38.85	4000	415	F	F
4.30-5.30 PM	AADT * 2.452	50	34.10	27.50	40.70	4000	420.6	F	F
4.30-5.30 PM	AADT * 2.452	50	35.65	28.75	42.55	4000	426.5	F	F
4.30-5.30 PM	AADT * 2.452	50	37.20	30.00	44.40	4000	432.3	F	F
4.30-5.30 PM	AADT * 2.452	50	38.75	31.25	46.25	4000	438.2	F	F
4.30-5.30 PM	AADT * 2.452	50	40.30	32.50	48.10	4000	444.2	F	F
4.30-5.30 PM	AADT * 2.452	50	41.85	33.75	49.95	4000	450.3	F	F
4.30-5.30 PM	AADT * 2.452	50	43.40	35.00	51.80	4000	456.4	F	F
4.30-5.30 PM	AADT * 2.452	50	44.95	36.25	53.65	4000	462.6	F	F
4.30-5.30 PM	AADT * 2.452	50	46.50	37.50	55.50	4000	468.9	F	F
8.30-9.30 AM	AADT * 1	85	15.50	12.50	18.50	841	2.3	A	A
8.30-9.30 AM	AADT * 1	85	17.05	13.75	20.35	841	2.3	A	A
8.30-9.30 AM	AADT * 1	85	18.60	15.00	22.20	841	2.3	A	A
8.30-9.30 AM	AADT * 1	85	20.15	16.25	24.05	841	2.4	A	A
8.30-9.30 AM	AADT * 1	85	21.70	17.50	25.90	841	2.4	A	A
8.30-9.30 AM	AADT * 1	85	23.25	18.75	27.75	841	2.4	A	A
8.30-9.30 AM	AADT * 1	85	24.80	20.00	29.60	841	2.4	A	A
8.30-9.30 AM	AADT * 1	85	26.35	21.25	31.45	841	2.4	A	A
8.30-9.30 AM	AADT * 1	85	27.90	22.50	33.30	841	2.4	A	A
8.30-9.30 AM	AADT * 1	85	29.45	23.75	35.15	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	31.00	25.00	37.00	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	32.55	26.25	38.85	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	34.10	27.50	40.70	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	35.65	28.75	42.55	841	2.6	A	A
8.30-9.30 AM	AADT * 1	85	37.20	30.00	44.40	841	2.6	A	A
8.30-9.30 AM	AADT * 1	85	38.75	31.25	46.25	841	2.6	A	A
8.30-9.30 AM	AADT * 1	85	40.30	32.50	48.10	841	2.6	A	A
8.30-9.30 AM	AADT * 1	85	41.85	33.75	49.95	841	2.6	A	A
8.30-9.30 AM	AADT * 1	85	43.40	35.00	51.80	841	2.7	A	A
8.30-9.30 AM	AADT * 1	85	44.95	36.25	53.65	841	2.7	A	A
8.30-9.30 AM	AADT * 1	85	46.50	37.50	55.50	841	2.7	A	A
8.30-9.30 AM	AADT * 2.378	85	15.50	12.50	18.50	2000	6.5	A	A
8.30-9.30 AM	AADT * 2.378	85	17.05	13.75	20.35	2000	6.6	A	A
8.30-9.30 AM	AADT * 2.378	85	18.60	15.00	22.20	2000	6.8	A	A
8.30-9.30 AM	AADT * 2.378	85	20.15	16.25	24.05	2000	7	A	A
8.30-9.30 AM	AADT * 2.378	85	21.70	17.50	25.90	2000	7.2	A	A
8.30-9.30 AM	AADT * 2.378	85	23.25	18.75	27.75	2000	7.4	A	A
8.30-9.30 AM	AADT * 2.378	85	24.80	20.00	29.60	2000	7.6	A	A
8.30-9.30 AM	AADT * 2.378	85	26.35	21.25	31.45	2000	7.9	A	A
8.30-9.30 AM	AADT * 2.378	85	27.90	22.50	33.30	2000	8.2	A	A
8.30-9.30 AM	AADT * 2.378	85	29.45	23.75	35.15	2000	8.5	A	A
8.30-9.30 AM	AADT * 2.378	85	31.00	25.00	37.00	2000	8.8	A	A

8.30-9.30 AM	AADT * 2.378	85	32.55	26.25	38.85	2000	9.1	A	A
8.30-9.30 AM	AADT * 2.378	85	34.10	27.50	40.70	2000	9.5	A	A
8.30-9.30 AM	AADT * 2.378	85	35.65	28.75	42.55	2000	9.9	A	A
8.30-9.30 AM	AADT * 2.378	85	37.20	30.00	44.40	2000	10.3	B	B
8.30-9.30 AM	AADT * 2.378	85	38.75	31.25	46.25	2000	10.8	B	B
8.30-9.30 AM	AADT * 2.378	85	40.30	32.50	48.10	2000	11.4	B	B
8.30-9.30 AM	AADT * 2.378	85	41.85	33.75	49.95	2000	12	B	B
8.30-9.30 AM	AADT * 2.378	85	43.40	35.00	51.80	2000	12.6	B	B
8.30-9.30 AM	AADT * 2.378	85	44.95	36.25	53.65	2000	13.4	B	B
8.30-9.30 AM	AADT * 2.378	85	46.50	37.50	55.50	2000	14.2	B	B
8.30-9.30 AM	AADT * 3.567	85	15.50	12.50	18.50	3000	252	F	F
8.30-9.30 AM	AADT * 3.567	85	17.05	13.75	20.35	3000	256.9	F	F
8.30-9.30 AM	AADT * 3.567	85	18.60	15.00	22.20	3000	261.8	F	F
8.30-9.30 AM	AADT * 3.567	85	20.15	16.25	24.05	3000	266.7	F	F
8.30-9.30 AM	AADT * 3.567	85	21.70	17.50	25.90	3000	271.7	F	F
8.30-9.30 AM	AADT * 3.567	85	23.25	18.75	27.75	3000	276.7	F	F
8.30-9.30 AM	AADT * 3.567	85	24.80	20.00	29.60	3000	281.8	F	F
8.30-9.30 AM	AADT * 3.567	85	26.35	21.25	31.45	3000	286.9	F	F
8.30-9.30 AM	AADT * 3.567	85	27.90	22.50	33.30	3000	292.1	F	F
8.30-9.30 AM	AADT * 3.567	85	29.45	23.75	35.15	3000	297.3	F	F
8.30-9.30 AM	AADT * 3.567	85	31.00	25.00	37.00	3000	302.6	F	F
8.30-9.30 AM	AADT * 3.567	85	32.55	26.25	38.85	3000	307.9	F	F
8.30-9.30 AM	AADT * 3.567	85	34.10	27.50	40.70	3000	313.3	F	F
8.30-9.30 AM	AADT * 3.567	85	35.65	28.75	42.55	3000	318.8	F	F
8.30-9.30 AM	AADT * 3.567	85	37.20	30.00	44.40	3000	324.3	F	F
8.30-9.30 AM	AADT * 3.567	85	38.75	31.25	46.25	3000	329.9	F	F
8.30-9.30 AM	AADT * 3.567	85	40.30	32.50	48.10	3000	335.6	F	F
8.30-9.30 AM	AADT * 3.567	85	41.85	33.75	49.95	3000	341.3	F	F
8.30-9.30 AM	AADT * 3.567	85	43.40	35.00	51.80	3000	347.2	F	F
8.30-9.30 AM	AADT * 3.567	85	44.95	36.25	53.65	3000	353.2	F	F
8.30-9.30 AM	AADT * 3.567	85	46.50	37.50	55.50	3000	359.2	F	F
8.30-9.30 AM	AADT *4.756	85	15.50	12.50	18.50	4000	645.6	F	F
8.30-9.30 AM	AADT *4.756	85	17.05	13.75	20.35	4000	650.3	F	F
8.30-9.30 AM	AADT *4.756	85	18.60	15.00	22.20	4000	655	F	F
8.30-9.30 AM	AADT *4.756	85	20.15	16.25	24.05	4000	659.7	F	F
8.30-9.30 AM	AADT *4.756	85	21.70	17.50	25.90	4000	664.4	F	F
8.30-9.30 AM	AADT *4.756	85	23.25	18.75	27.75	4000	669.2	F	F
8.30-9.30 AM	AADT *4.756	85	24.80	20.00	29.60	4000	673.9	F	F
8.30-9.30 AM	AADT *4.756	85	26.35	21.25	31.45	4000	678.6	F	F
8.30-9.30 AM	AADT *4.756	85	27.90	22.50	33.30	4000	983.4	F	F
8.30-9.30 AM	AADT *4.756	85	29.45	23.75	35.15	4000	688.1	F	F
8.30-9.30 AM	AADT *4.756	85	31.00	25.00	37.00	4000	692.8	F	F
8.30-9.30 AM	AADT *4.756	85	32.55	26.25	38.85	4000	697.6	F	F
8.30-9.30 AM	AADT *4.756	85	34.10	27.50	40.70	4000	702.4	F	F
8.30-9.30 AM	AADT *4.756	85	35.65	28.75	42.55	4000	707.1	F	F
8.30-9.30 AM	AADT *4.756	85	37.20	30.00	44.40	4000	711.9	F	F
8.30-9.30 AM	AADT *4.756	85	38.75	31.25	46.25	4000	716.7	F	F
8.30-9.30 AM	AADT *4.756	85	40.30	32.50	48.10	4000	721.5	F	F

8.30-9.30 AM	AADT *4.756	85	41.85	33.75	49.95	4000	726.3	F	F
8.30-9.30 AM	AADT *4.756	85	43.40	35.00	51.80	4000	731.1	F	F
8.30-9.30 AM	AADT *4.756	85	44.95	36.25	53.65	4000	735.9	F	F
8.30-9.30 AM	AADT *4.756	85	46.50	37.50	55.50	4000	740.7	F	F
12.30-1.30 PM	AADT * 1	85	15.50	12.50	18.50	1096	2.8	A	A
12.30-1.30 PM	AADT * 1	85	17.05	13.75	20.35	1096	2.8	A	A
12.30-1.30 PM	AADT * 1	85	18.60	15.00	22.20	1096	2.8	A	A
12.30-1.30 PM	AADT * 1	85	20.15	16.25	24.05	1096	2.9	A	A
12.30-1.30 PM	AADT * 1	85	21.70	17.50	25.90	1096	2.9	A	A
12.30-1.30 PM	AADT * 1	85	23.25	18.75	27.75	1096	2.9	A	A
12.30-1.30 PM	AADT * 1	85	24.80	20.00	29.60	1096	2.9	A	A
12.30-1.30 PM	AADT * 1	85	26.35	21.25	31.45	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	27.90	22.50	33.30	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	29.45	23.75	35.15	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	31.00	25.00	37.00	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	32.55	26.25	38.85	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	34.10	27.50	40.70	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	35.65	28.75	42.55	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	37.20	30.00	44.40	1096	3.2	A	A
12.30-1.30 PM	AADT * 1	85	38.75	31.25	46.25	1096	3.2	A	A
12.30-1.30 PM	AADT * 1	85	40.30	32.50	48.10	1096	3.2	A	A
12.30-1.30 PM	AADT * 1	85	41.85	33.75	49.95	1096	3.3	A	A
12.30-1.30 PM	AADT * 1	85	43.40	35.00	51.80	1096	3.3	A	A
12.30-1.30 PM	AADT * 1	85	44.95	36.25	53.65	1096	3.3	A	A
12.30-1.30 PM	AADT * 1	85	46.50	37.50	55.50	1096	3.3	A	A
12.30-1.30 PM	AADT * 1.82	85	15.50	12.50	18.50	2000	5.6	A	A
12.30-1.30 PM	AADT * 1.82	85	17.05	13.75	20.35	2000	5.6	A	A
12.30-1.30 PM	AADT * 1.82	85	18.60	15.00	22.20	2000	5.7	A	A
12.30-1.30 PM	AADT * 1.82	85	20.15	16.25	24.05	2000	5.8	A	A
12.30-1.30 PM	AADT * 1.82	85	21.70	17.50	25.90	2000	5.9	A	A
12.30-1.30 PM	AADT * 1.82	85	23.25	18.75	27.75	2000	6	A	A
12.30-1.30 PM	AADT * 1.82	85	24.80	20.00	29.60	2000	6.1	A	A
12.30-1.30 PM	AADT * 1.82	85	26.35	21.25	31.45	2000	6.3	A	A
12.30-1.30 PM	AADT * 1.82	85	27.90	22.50	33.30	2000	6.4	A	A
12.30-1.30 PM	AADT * 1.82	85	29.45	23.75	35.15	2000	6.5	A	A
12.30-1.30 PM	AADT * 1.82	85	31.00	25.00	37.00	2000	6.6	A	A
12.30-1.30 PM	AADT * 1.82	85	32.55	26.25	38.85	2000	6.7	A	A
12.30-1.30 PM	AADT * 1.82	85	34.10	27.50	40.70	2000	6.9	A	A
12.30-1.30 PM	AADT * 1.82	85	35.65	28.75	42.55	2000	7	A	A
12.30-1.30 PM	AADT * 1.82	85	37.20	30.00	44.40	2000	7.2	A	A
12.30-1.30 PM	AADT * 1.82	85	38.75	31.25	46.25	2000	7.3	A	A
12.30-1.30 PM	AADT * 1.82	85	40.30	32.50	48.10	2000	7.5	A	A
12.30-1.30 PM	AADT * 1.82	85	41.85	33.75	49.95	2000	7.6	A	A
12.30-1.30 PM	AADT * 1.82	85	43.40	35.00	51.80	2000	7.8	A	A
12.30-1.30 PM	AADT * 1.82	85	44.95	36.25	53.65	2000	8	A	A
12.30-1.30 PM	AADT * 1.82	85	46.50	37.50	55.50	2000	8.2	A	A
12.30-1.30 PM	AADT * 2.737	85	15.50	12.50	18.50	3000	142.9	F	F
12.30-1.30 PM	AADT * 2.737	85	17.05	13.75	20.35	3000	146.9	F	F

12.30-1.30 PM	AADT * 2.737	85	18.60	15.00	22.20	3000	151	F	F
12.30-1.30 PM	AADT * 2.737	85	20.15	16.25	24.05	3000	155.1	F	F
12.30-1.30 PM	AADT * 2.737	85	21.70	17.50	25.90	3000	159.4	F	F
12.30-1.30 PM	AADT * 2.737	85	23.25	18.75	27.75	3000	163.7	F	F
12.30-1.30 PM	AADT * 2.737	85	24.80	20.00	29.60	3000	168.2	F	F
12.30-1.30 PM	AADT * 2.737	85	26.35	21.25	31.45	3000	172.7	F	F
12.30-1.30 PM	AADT * 2.737	85	27.90	22.50	33.30	3000	177.3	F	F
12.30-1.30 PM	AADT * 2.737	85	29.45	23.75	35.15	3000	182	F	F
12.30-1.30 PM	AADT * 2.737	85	31.00	25.00	37.00	3000	186.9	F	F
12.30-1.30 PM	AADT * 2.737	85	32.55	26.25	38.85	3000	191.9	F	F
12.30-1.30 PM	AADT * 2.737	85	34.10	27.50	40.70	3000	196.9	F	F
12.30-1.30 PM	AADT * 2.737	85	35.65	28.75	42.55	3000	202.1	F	F
12.30-1.30 PM	AADT * 2.737	85	37.20	30.00	44.40	3000	207.4	F	F
12.30-1.30 PM	AADT * 2.737	85	38.75	31.25	46.25	3000	212.8	F	F
12.30-1.30 PM	AADT * 2.737	85	40.30	32.50	48.10	3000	218.3	F	F
12.30-1.30 PM	AADT * 2.737	85	41.85	33.75	49.95	3000	223.9	F	F
12.30-1.30 PM	AADT * 2.737	85	43.40	35.00	51.80	3000	229.6	F	F
12.30-1.30 PM	AADT * 2.737	85	44.95	36.25	53.65	3000	235.5	F	F
12.30-1.30 PM	AADT * 2.737	85	46.50	37.50	55.50	3000	241.5	F	F
12.30-1.30 PM	AADT * 3.65	85	15.50	12.50	18.50	4000	550.2	F	F
12.30-1.30 PM	AADT * 3.65	85	17.05	13.75	20.35	4000	556.4	F	F
12.30-1.30 PM	AADT * 3.65	85	18.60	15.00	22.20	4000	562.6	F	F
12.30-1.30 PM	AADT * 3.65	85	20.15	16.25	24.05	4000	569	F	F
12.30-1.30 PM	AADT * 3.65	85	21.70	17.50	25.90	4000	575.3	F	F
12.30-1.30 PM	AADT * 3.65	85	23.25	18.75	27.75	4000	581.8	F	F
12.30-1.30 PM	AADT * 3.65	85	24.80	20.00	29.60	4000	588.3	F	F
12.30-1.30 PM	AADT * 3.65	85	26.35	21.25	31.45	4000	595	F	F
12.30-1.30 PM	AADT * 3.65	85	27.90	22.50	33.30	4000	601.5	F	F
12.30-1.30 PM	AADT * 3.65	85	29.45	23.75	35.15	4000	608.3	F	F
12.30-1.30 PM	AADT * 3.65	85	31.00	25.00	37.00	4000	615.1	F	F
12.30-1.30 PM	AADT * 3.65	85	32.55	26.25	38.85	4000	621.9	F	F
12.30-1.30 PM	AADT * 3.65	85	34.10	27.50	40.70	4000	628.8	F	F
12.30-1.30 PM	AADT * 3.65	85	35.65	28.75	42.55	4000	635.8	F	F
12.30-1.30 PM	AADT * 3.65	85	37.20	30.00	44.40	4000	642.9	F	F
12.30-1.30 PM	AADT * 3.65	85	38.75	31.25	46.25	4000	649.9	F	F
12.30-1.30 PM	AADT * 3.65	85	40.30	32.50	48.10	4000	657	F	F
12.30-1.30 PM	AADT * 3.65	85	41.85	33.75	49.95	4000	664.2	F	F
12.30-1.30 PM	AADT * 3.65	85	43.40	35.00	51.80	4000	671.5	F	F
12.30-1.30 PM	AADT * 3.65	85	44.95	36.25	53.65	4000	678.8	F	F
12.30-1.30 PM	AADT * 3.65	85	46.50	37.50	55.50	4000	686.2	F	F
4.30-5.30 PM	AADT * 1	85	15.50	12.50	18.50	1631	4	A	A
4.30-5.30 PM	AADT * 1	85	17.05	13.75	20.35	1631	4.1	A	A
4.30-5.30 PM	AADT * 1	85	18.60	15.00	22.20	1631	4.1	A	A
4.30-5.30 PM	AADT * 1	85	20.15	16.25	24.05	1631	4.1	A	A
4.30-5.30 PM	AADT * 1	85	21.70	17.50	25.90	1631	4.2	A	A
4.30-5.30 PM	AADT * 1	85	23.25	18.75	27.75	1631	4.2	A	A
4.30-5.30 PM	AADT * 1	85	24.80	20.00	29.60	1631	4.3	A	A
4.30-5.30 PM	AADT * 1	85	26.35	21.25	31.45	1631	4.4	A	A

4.30-5.30 PM	AADT * 1	85	27.90	22.50	33.30	1631	4.4	A	A
4.30-5.30 PM	AADT * 1	85	29.45	23.75	35.15	1631	4.5	A	A
4.30-5.30 PM	AADT * 1	85	31.00	25.00	37.00	1631	4.5	A	A
4.30-5.30 PM	AADT * 1	85	32.55	26.25	38.85	1631	4.6	A	A
4.30-5.30 PM	AADT * 1	85	34.10	27.50	40.70	1631	4.6	A	A
4.30-5.30 PM	AADT * 1	85	35.65	28.75	42.55	1631	4.7	A	A
4.30-5.30 PM	AADT * 1	85	37.20	30.00	44.40	1631	4.8	A	A
4.30-5.30 PM	AADT * 1	85	38.75	31.25	46.25	1631	4.8	A	A
4.30-5.30 PM	AADT * 1	85	40.30	32.50	48.10	1631	4.9	A	A
4.30-5.30 PM	AADT * 1	85	41.85	33.75	49.95	1631	5	A	A
4.30-5.30 PM	AADT * 1	85	43.40	35.00	51.80	1631	5.1	A	A
4.30-5.30 PM	AADT * 1	85	44.95	36.25	53.65	1631	5.1	A	A
4.30-5.30 PM	AADT * 1	85	46.50	37.50	55.50	1631	5.2	A	A
4.30-5.30 PM	AADT * 1.226	85	15.50	12.50	18.50	2000	5.3	A	A
4.30-5.30 PM	AADT * 1.226	85	17.05	13.75	20.35	2000	5.4	A	A
4.30-5.30 PM	AADT * 1.226	85	18.60	15.00	22.20	2000	5.5	A	A
4.30-5.30 PM	AADT * 1.226	85	20.15	16.25	24.05	2000	5.6	A	A
4.30-5.30 PM	AADT * 1.226	85	21.70	17.50	25.90	2000	5.7	A	A
4.30-5.30 PM	AADT * 1.226	85	23.25	18.75	27.75	2000	5.8	A	A
4.30-5.30 PM	AADT * 1.226	85	24.80	20.00	29.60	2000	5.9	A	A
4.30-5.30 PM	AADT * 1.226	85	26.35	21.25	31.45	2000	6	A	A
4.30-5.30 PM	AADT * 1.226	85	27.90	22.50	33.30	2000	6.1	A	A
4.30-5.30 PM	AADT * 1.226	85	29.45	23.75	35.15	2000	6.2	A	A
4.30-5.30 PM	AADT * 1.226	85	31.00	25.00	37.00	2000	6.3	A	A
4.30-5.30 PM	AADT * 1.226	85	32.55	26.25	38.85	2000	6.4	A	A
4.30-5.30 PM	AADT * 1.226	85	34.10	27.50	40.70	2000	6.5	A	A
4.30-5.30 PM	AADT * 1.226	85	35.65	28.75	42.55	2000	6.7	A	A
4.30-5.30 PM	AADT * 1.226	85	37.20	30.00	44.40	2000	6.8	A	A
4.30-5.30 PM	AADT * 1.226	85	38.75	31.25	46.25	2000	7	A	A
4.30-5.30 PM	AADT * 1.226	85	40.30	32.50	48.10	2000	7.1	A	A
4.30-5.30 PM	AADT * 1.226	85	41.85	33.75	49.95	2000	7.3	A	A
4.30-5.30 PM	AADT * 1.226	85	43.40	35.00	51.80	2000	7.4	A	A
4.30-5.30 PM	AADT * 1.226	85	44.95	36.25	53.65	2000	7.6	A	A
4.30-5.30 PM	AADT * 1.226	85	46.50	37.50	55.50	2000	7.8	A	A
4.30-5.30 PM	AADT * 1.84	85	15.50	12.50	18.50	3000	126.1	F	F
4.30-5.30 PM	AADT * 1.84	85	17.05	13.75	20.35	3000	130.3	F	F
4.30-5.30 PM	AADT * 1.84	85	18.60	15.00	22.20	3000	135	F	F
4.30-5.30 PM	AADT * 1.84	85	20.15	16.25	24.05	3000	139	F	F
4.30-5.30 PM	AADT * 1.84	85	21.70	17.50	25.90	3000	143.4	F	F
4.30-5.30 PM	AADT * 1.84	85	23.25	18.75	27.75	3000	147.9	F	F
4.30-5.30 PM	AADT * 1.84	85	24.80	20.00	29.60	3000	152.5	F	F
4.30-5.30 PM	AADT * 1.84	85	26.35	21.25	31.45	3000	157.2	F	F
4.30-5.30 PM	AADT * 1.84	85	27.90	22.50	33.30	3000	161.9	F	F
4.30-5.30 PM	AADT * 1.84	85	29.45	23.75	35.15	3000	166.9	F	F
4.30-5.30 PM	AADT * 1.84	85	31.00	25.00	37.00	3000	172	F	F
4.30-5.30 PM	AADT * 1.84	85	32.55	26.25	38.85	3000	177.1	F	F
4.30-5.30 PM	AADT * 1.84	85	34.10	27.50	40.70	3000	182.2	F	F
4.30-5.30 PM	AADT * 1.84	85	35.65	28.75	42.55	3000	187.5	F	F

4.30-5.30 PM	AADT * 1.84	85	37.20	30.00	44.40	3000	192.9	F	F
4.30-5.30 PM	AADT * 1.84	85	38.75	31.25	46.25	3000	198.4	F	F
4.30-5.30 PM	AADT * 1.84	85	40.30	32.50	48.10	3000	204	F	F
4.30-5.30 PM	AADT * 1.84	85	41.85	33.75	49.95	3000	209.8	F	F
4.30-5.30 PM	AADT * 1.84	85	43.40	35.00	51.80	3000	215.6	F	F
4.30-5.30 PM	AADT * 1.84	85	44.95	36.25	53.65	3000	221.5	F	F
4.30-5.30 PM	AADT * 1.84	85	46.50	37.50	55.50	3000	227.6	F	F
4.30-5.30 PM	AADT * 2.452	85	15.50	12.50	18.50	4000	514.3	F	F
4.30-5.30 PM	AADT * 2.452	85	17.05	13.75	20.35	4000	520.9	F	F
4.30-5.30 PM	AADT * 2.452	85	18.60	15.00	22.20	4000	527.4	F	F
4.30-5.30 PM	AADT * 2.452	85	20.15	16.25	24.05	4000	534.1	F	F
4.30-5.30 PM	AADT * 2.452	85	21.70	17.50	25.90	4000	540.7	F	F
4.30-5.30 PM	AADT * 2.452	85	23.25	18.75	27.75	4000	547.5	F	F
4.30-5.30 PM	AADT * 2.452	85	24.80	20.00	29.60	4000	554.3	F	F
4.30-5.30 PM	AADT * 2.452	85	26.35	21.25	31.45	4000	561.3	F	F
4.30-5.30 PM	AADT * 2.452	85	27.90	22.50	33.30	4000	568.2	F	F
4.30-5.30 PM	AADT * 2.452	85	29.45	23.75	35.15	4000	575.2	F	F
4.30-5.30 PM	AADT * 2.452	85	31.00	25.00	37.00	4000	582.3	F	F
4.30-5.30 PM	AADT * 2.452	85	32.55	26.25	38.85	4000	589.3	F	F
4.30-5.30 PM	AADT * 2.452	85	34.10	27.50	40.70	4000	596.5	F	F
4.30-5.30 PM	AADT * 2.452	85	35.65	28.75	42.55	4000	603.7	F	F
4.30-5.30 PM	AADT * 2.452	85	37.20	30.00	44.40	4000	610.9	F	F
4.30-5.30 PM	AADT * 2.452	85	38.75	31.25	46.25	4000	618.2	F	F
4.30-5.30 PM	AADT * 2.452	85	40.30	32.50	48.10	4000	625.5	F	F
4.30-5.30 PM	AADT * 2.452	85	41.85	33.75	49.95	4000	632.9	F	F
4.30-5.30 PM	AADT * 2.452	85	43.40	35.00	51.80	4000	640.2	F	F
4.30-5.30 PM	AADT * 2.452	85	44.95	36.25	53.65	4000	647.7	F	F
4.30-5.30 PM	AADT * 2.452	85	46.50	37.50	55.50	4000	655.2	F	F

Inscribed Circle Diameter for Congestoga/Can-Amera Roundabout

Timeframe	AADT Assumptions	CL	DIAMETER- CONGESTOGA	DIAMETER - CAN AMERA EAST	DIAMETER - CAN AMERA WEST	AADT	AVERAGE DELAY	LOS SIG	LOS UNSIG
8.30-9.30 AM	AADT * 1	50	25.00	25.00	25.00	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	27.50	27.50	27.50	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	30.00	30.00	30.00	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	32.50	32.50	32.50	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	35.00	35.00	35.00	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	37.50	37.50	37.50	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	40.00	40.00	40.00	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	42.50	42.50	42.50	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	45.00	45.00	45.00	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	47.50	47.50	47.50	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	50.00	50.00	50.00	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	52.50	52.50	52.50	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	55.00	55.00	55.00	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	57.50	57.50	57.50	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	60.00	60.00	60.00	841	2.2	A	A
8.30-9.30 AM	AADT * 1	50	62.50	62.50	62.50	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	65.00	65.00	65.00	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	67.50	67.50	67.50	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	70.00	70.00	70.00	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	72.50	72.50	72.50	841	2.1	A	A
8.30-9.30 AM	AADT * 1	50	75.00	75.00	75.00	841	2.1	A	A
8.30-9.30 AM	AADT * 2,378	50	25.00	25.00	25.00	2000	5.7	A	A
8.30-9.30 AM	AADT * 2,378	50	27.50	27.50	27.50	2000	5.7	A	A
8.30-9.30 AM	AADT * 2,378	50	30.00	30.00	30.00	2000	5.6	A	A
8.30-9.30 AM	AADT * 2,378	50	32.50	32.50	32.50	2000	5.6	A	A
8.30-9.30 AM	AADT * 2,378	50	35.00	35.00	35.00	2000	5.6	A	A
8.30-9.30 AM	AADT * 2,378	50	37.50	37.50	37.50	2000	5.5	A	A
8.30-9.30 AM	AADT * 2,378	50	40.00	40.00	40.00	2000	5.5	A	A
8.30-9.30 AM	AADT * 2,378	50	42.50	42.50	42.50	2000	5.4	A	A
8.30-9.30 AM	AADT * 2,378	50	45.00	45.00	45.00	2000	5.3	A	A
8.30-9.30 AM	AADT * 2,378	50	47.50	47.50	47.50	2000	5.2	A	A
8.30-9.30 AM	AADT * 2,378	50	50.00	50.00	50.00	2000	5.1	A	A
8.30-9.30 AM	AADT * 2,378	50	52.50	52.50	52.50	2000	5	A	A
8.30-9.30 AM	AADT * 2,378	50	55.00	55.00	55.00	2000	4.9	A	A
8.30-9.30 AM	AADT * 2,378	50	57.50	57.50	57.50	2000	4.8	A	A
8.30-9.30 AM	AADT * 2,378	50	60.00	60.00	60.00	2000	4.7	A	A
8.30-9.30 AM	AADT * 2,378	50	62.50	62.50	62.50	2000	4.6	A	A
8.30-9.30 AM	AADT * 2,378	50	65.00	65.00	65.00	2000	4.5	A	A
8.30-9.30 AM	AADT * 2,378	50	67.50	67.50	67.50	2000	4.4	A	A
8.30-9.30 AM	AADT * 2,378	50	70.00	70.00	70.00	2000	4.3	A	A
8.30-9.30 AM	AADT * 2,378	50	72.50	72.50	72.50	2000	4.3	A	A
8.30-9.30 AM	AADT * 2,378	50	75.00	75.00	75.00	2000	4.2	A	A

8.30-9.30 AM	AADT * 3.567	50	25.00	25.00	25.00	3000	226.1	F	F
8.30-9.30 AM	AADT * 3.567	50	27.50	27.50	27.50	3000	224.7	F	F
8.30-9.30 AM	AADT * 3.567	50	30.00	30.00	30.00	3000	222.9	F	F
8.30-9.30 AM	AADT * 3.567	50	32.50	32.50	32.50	3000	220.7	F	F
8.30-9.30 AM	AADT * 3.567	50	35.00	35.00	35.00	3000	217.9	F	F
8.30-9.30 AM	AADT * 3.567	50	37.50	37.50	37.50	3000	214.5	F	F
8.30-9.30 AM	AADT * 3.567	50	40.00	40.00	40.00	3000	210.4	F	F
8.30-9.30 AM	AADT * 3.567	50	42.50	42.50	42.50	3000	205.5	F	F
8.30-9.30 AM	AADT * 3.567	50	45.00	45.00	45.00	3000	199.7	F	F
8.30-9.30 AM	AADT * 3.567	50	47.50	47.50	47.50	3000	193	F	F
8.30-9.30 AM	AADT * 3.567	50	50.00	50.00	50.00	3000	185.4	F	F
8.30-9.30 AM	AADT * 3.567	50	52.50	52.50	52.50	3000	177.1	F	F
8.30-9.30 AM	AADT * 3.567	50	55.00	55.00	55.00	3000	168.3	F	F
8.30-9.30 AM	AADT * 3.567	50	57.50	57.50	57.50	3000	159.1	F	F
8.30-9.30 AM	AADT * 3.567	50	60.00	60.00	60.00	3000	150.3	F	F
8.30-9.30 AM	AADT * 3.567	50	62.50	62.50	62.50	3000	141.5	F	F
8.30-9.30 AM	AADT * 3.567	50	65.00	65.00	65.00	3000	133.2	F	F
8.30-9.30 AM	AADT * 3.567	50	67.50	67.50	67.50	3000	125.6	F	F
8.30-9.30 AM	AADT * 3.567	50	70.00	70.00	70.00	3000	118.9	F	F
8.30-9.30 AM	AADT * 3.567	50	72.50	72.50	72.50	3000	112.9	F	F
8.30-9.30 AM	AADT * 3.567	50	75.00	75.00	75.00	3000	107.9	F	F
8.30-9.30 AM	AADT * 4.756	50	25.00	25.00	25.00	4000	618.1	F	F
8.30-9.30 AM	AADT * 4.756	50	27.50	27.50	27.50	4000	616.1	F	F
8.30-9.30 AM	AADT * 4.756	50	30.00	30.00	30.00	4000	613.5	F	F
8.30-9.30 AM	AADT * 4.756	50	32.50	32.50	32.50	4000	610.2	F	F
8.30-9.30 AM	AADT * 4.756	50	35.00	35.00	35.00	4000	606.2	F	F
8.30-9.30 AM	AADT * 4.756	50	37.50	37.50	37.50	4000	601.2	F	F
8.30-9.30 AM	AADT * 4.756	50	40.00	40.00	40.00	4000	595.1	F	F
8.30-9.30 AM	AADT * 4.756	50	42.50	42.50	42.50	4000	587.7	F	F
8.30-9.30 AM	AADT * 4.756	50	45.00	45.00	45.00	4000	578.9	F	F
8.30-9.30 AM	AADT * 4.756	50	47.50	47.50	47.50	4000	568.6	F	F
8.30-9.30 AM	AADT * 4.756	50	50.00	50.00	50.00	4000	556.8	F	F
8.30-9.30 AM	AADT * 4.756	50	52.50	52.50	52.50	4000	543.6	F	F
8.30-9.30 AM	AADT * 4.756	50	55.00	55.00	55.00	4000	529.1	F	F
8.30-9.30 AM	AADT * 4.756	50	57.50	57.50	57.50	4000	513.8	F	F
8.30-9.30 AM	AADT * 4.756	50	60.00	60.00	60.00	4000	498.1	F	F
8.30-9.30 AM	AADT * 4.756	50	62.50	62.50	62.50	4000	482.4	F	F
8.30-9.30 AM	AADT * 4.756	50	65.00	65.00	65.00	4000	567.3	F	F
8.30-9.30 AM	AADT * 4.756	50	67.50	67.50	67.50	4000	453.1	F	F
8.30-9.30 AM	AADT * 4.756	50	70.00	70.00	70.00	4000	440.2	F	F
8.30-9.30 AM	AADT * 4.756	50	72.50	72.50	72.50	4000	428.8	F	F
8.30-9.30 AM	AADT * 4.756	50	75.00	75.00	75.00	4000	419	F	F
12.30-1.30 PM	AADT * 1	50	25.00	25.00	25.00	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	27.50	27.50	27.50	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	30.00	30.00	30.00	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	32.50	32.50	32.50	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	35.00	35.00	35.00	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	37.50	37.50	37.50	1096	2.6	A	A

12.30-1.30 PM	AADT * 1	50	40.00	40.00	40.00	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	42.50	42.50	42.50	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	45.00	45.00	45.00	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	47.50	47.50	47.50	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	50.00	50.00	50.00	1096	2.6	A	A
12.30-1.30 PM	AADT * 1	50	52.50	52.50	52.50	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	55.00	55.00	55.00	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	57.50	57.50	57.50	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	60.00	60.00	60.00	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	62.50	62.50	62.50	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	65.00	65.00	65.00	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	67.50	67.50	67.50	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	70.00	70.00	70.00	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	72.50	72.50	72.50	1096	2.5	A	A
12.30-1.30 PM	AADT * 1	50	75.00	75.00	75.00	1096	2.5	A	A
12.30-1.30 PM	AADT * 1.82	50	25.00	25.00	25.00	2000	4.9	A	A
12.30-1.30 PM	AADT * 1.82	50	27.50	27.50	27.50	2000	4.9	A	A
12.30-1.30 PM	AADT * 1.82	50	30.00	30.00	30.00	2000	4.9	A	A
12.30-1.30 PM	AADT * 1.82	50	32.50	32.50	32.50	2000	4.9	A	A
12.30-1.30 PM	AADT * 1.82	50	35.00	35.00	35.00	2000	4.9	A	A
12.30-1.30 PM	AADT * 1.82	50	37.50	37.50	37.50	2000	4.9	A	A
12.30-1.30 PM	AADT * 1.82	50	40.00	40.00	40.00	2000	4.8	A	A
12.30-1.30 PM	AADT * 1.82	50	42.50	42.50	42.50	2000	4.8	A	A
12.30-1.30 PM	AADT * 1.82	50	45.00	45.00	45.00	2000	4.7	A	A
12.30-1.30 PM	AADT * 1.82	50	47.50	47.50	47.50	2000	4.7	A	A
12.30-1.30 PM	AADT * 1.82	50	50.00	50.00	50.00	2000	4.7	A	A
12.30-1.30 PM	AADT * 1.82	50	52.50	52.50	52.50	2000	4.6	A	A
12.30-1.30 PM	AADT * 1.82	50	55.00	55.00	55.00	2000	4.5	A	A
12.30-1.30 PM	AADT * 1.82	50	57.50	57.50	57.50	2000	4.5	A	A
12.30-1.30 PM	AADT * 1.82	50	60.00	60.00	60.00	2000	4.4	A	A
12.30-1.30 PM	AADT * 1.82	50	62.50	62.50	62.50	2000	4.4	A	A
12.30-1.30 PM	AADT * 1.82	50	65.00	65.00	65.00	2000	4.3	A	A
12.30-1.30 PM	AADT * 1.82	50	67.50	67.50	67.50	2000	4.3	A	A
12.30-1.30 PM	AADT * 1.82	50	70.00	70.00	70.00	2000	4.2	A	A
12.30-1.30 PM	AADT * 1.82	50	72.50	72.50	72.50	2000	4.2	A	A
12.30-1.30 PM	AADT * 1.82	50	75.00	75.00	75.00	2000	4.2	A	A
12.30-1.30 PM	AADT * 2.737	50	25.00	25.00	25.00	3000	117.7	F	F
12.30-1.30 PM	AADT * 2.737	50	27.50	27.50	27.50	3000	116.5	F	F
12.30-1.30 PM	AADT * 2.737	50	30.00	30.00	30.00	3000	114.9	F	F
12.30-1.30 PM	AADT * 2.737	50	32.50	32.50	32.50	3000	113	F	F
12.30-1.30 PM	AADT * 2.737	50	35.00	35.00	35.00	3000	110.6	F	F
12.30-1.30 PM	AADT * 2.737	50	37.50	37.50	37.50	3000	107.6	F	F
12.30-1.30 PM	AADT * 2.737	50	40.00	40.00	40.00	3000	104	F	F
12.30-1.30 PM	AADT * 2.737	50	42.50	42.50	42.50	3000	99.7	F	F
12.30-1.30 PM	AADT * 2.737	50	45.00	45.00	45.00	3000	94.7	F	F
12.30-1.30 PM	AADT * 2.737	50	47.50	47.50	47.50	3000	88.8	F	F
12.30-1.30 PM	AADT * 2.737	50	50.00	50.00	50.00	3000	82.1	F	F
12.30-1.30 PM	AADT * 2.737	50	52.50	52.50	52.50	3000	74.6	E	F

12.30-1.30 PM	AADT * 2.737	50	55.00	55.00	55.00	3000	66.7	E	F
12.30-1.30 PM	AADT * 2.737	50	57.50	57.50	57.50	3000	58.5	E	F
12.30-1.30 PM	AADT * 2.737	50	60.00	60.00	60.00	3000	50.3	D	F
12.30-1.30 PM	AADT * 2.737	50	62.50	62.50	62.50	3000	43.7	D	E
12.30-1.30 PM	AADT * 2.737	50	65.00	65.00	65.00	3000	38.6	D	E
12.30-1.30 PM	AADT * 2.737	50	67.50	67.50	67.50	3000	34.2	C	D
12.30-1.30 PM	AADT * 2.737	50	70.00	70.00	70.00	3000	30.7	C	D
12.30-1.30 PM	AADT * 2.737	50	72.50	72.50	72.50	3000	27.9	C	D
12.30-1.30 PM	AADT * 2.737	50	75.00	75.00	75.00	3000	25.7	C	D
12.30-1.30 PM	AADT *3.65	50	25.00	25.00	25.00	4000	504.2	F	F
12.30-1.30 PM	AADT *3.65	50	27.50	27.50	27.50	4000	501.9	F	F
12.30-1.30 PM	AADT *3.65	50	30.00	30.00	30.00	4000	499.1	F	F
12.30-1.30 PM	AADT *3.65	50	32.50	32.50	32.50	4000	495.6	F	F
12.30-1.30 PM	AADT *3.65	50	35.00	35.00	35.00	4000	491.2	F	F
12.30-1.30 PM	AADT *3.65	50	37.50	37.50	37.50	4000	485.8	F	F
12.30-1.30 PM	AADT *3.65	50	40.00	40.00	40.00	4000	479.3	F	F
12.30-1.30 PM	AADT *3.65	50	42.50	42.50	42.50	4000	471.4	F	F
12.30-1.30 PM	AADT *3.65	50	45.00	45.00	45.00	4000	462.1	F	F
12.30-1.30 PM	AADT *3.65	50	47.50	47.50	47.50	4000	451.4	F	F
12.30-1.30 PM	AADT *3.65	50	50.00	50.00	50.00	4000	439.2	F	F
12.30-1.30 PM	AADT *3.65	50	52.50	52.50	52.50	4000	425.9	F	F
12.30-1.30 PM	AADT *3.65	50	55.00	55.00	55.00	4000	411.6	F	F
12.30-1.30 PM	AADT *3.65	50	57.50	57.50	57.50	4000	396.9	F	F
12.30-1.30 PM	AADT *3.65	50	60.00	60.00	60.00	4000	382.1	F	F
12.30-1.30 PM	AADT *3.65	50	62.50	62.50	62.50	4000	367.5	F	F
12.30-1.30 PM	AADT *3.65	50	65.00	65.00	65.00	4000	353.6	F	F
12.30-1.30 PM	AADT *3.65	50	67.50	67.50	67.50	4000	340.7	F	F
12.30-1.30 PM	AADT *3.65	50	70.00	70.00	70.00	4000	329	F	F
12.30-1.30 PM	AADT *3.65	50	72.50	72.50	72.50	4000	318.8	F	F
12.30-1.30 PM	AADT *3.65	50	75.00	75.00	75.00	4000	309.9	F	F
4.30-5.30 PM	AADT * 1	50	25.00	25.00	25.00	1631	3.6	A	A
4.30-5.30 PM	AADT * 1	50	27.50	27.50	27.50	1631	3.6	A	A
4.30-5.30 PM	AADT * 1	50	30.00	30.00	30.00	1631	3.6	A	A
4.30-5.30 PM	AADT * 1	50	32.50	32.50	32.50	1631	3.6	A	A
4.30-5.30 PM	AADT * 1	50	35.00	35.00	35.00	1631	3.6	A	A
4.30-5.30 PM	AADT * 1	50	37.50	37.50	37.50	1631	3.6	A	A
4.30-5.30 PM	AADT * 1	50	40.00	40.00	40.00	1631	3.6	A	A
4.30-5.30 PM	AADT * 1	50	42.50	42.50	42.50	1631	3.6	A	A
4.30-5.30 PM	AADT * 1	50	45.00	45.00	45.00	1631	3.6	A	A
4.30-5.30 PM	AADT * 1	50	47.50	47.50	47.50	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	50	50.00	50.00	50.00	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	50	52.50	52.50	52.50	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	50	55.00	55.00	55.00	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	50	57.50	57.50	57.50	1631	3.5	A	A
4.30-5.30 PM	AADT * 1	50	60.00	60.00	60.00	1631	3.4	A	A
4.30-5.30 PM	AADT * 1	50	62.50	62.50	62.50	1631	3.4	A	A
4.30-5.30 PM	AADT * 1	50	65.00	65.00	65.00	1631	3.4	A	A
4.30-5.30 PM	AADT * 1	50	67.50	67.50	67.50	1631	3.4	A	A

4.30-5.30 PM	AADT * 1	50	70.00	70.00	70.00	1631	3.3	A	A
4.30-5.30 PM	AADT * 1	50	72.50	72.50	72.50	1631	3.3	A	A
4.30-5.30 PM	AADT * 1	50	75.00	75.00	75.00	1631	3.3	A	A
4.30-5.30 PM	AADT * 1.226	50	25.00	25.00	25.00	2000	5.1	A	A
4.30-5.30 PM	AADT * 1.226	50	27.50	27.50	27.50	2000	5.1	A	A
4.30-5.30 PM	AADT * 1.226	50	30.00	30.00	30.00	2000	5.1	A	A
4.30-5.30 PM	AADT * 1.226	50	32.50	32.50	32.50	2000	5.1	A	A
4.30-5.30 PM	AADT * 1.226	50	35.00	35.00	35.00	2000	5	A	A
4.30-5.30 PM	AADT * 1.226	50	37.50	37.50	37.50	2000	5	A	A
4.30-5.30 PM	AADT * 1.226	50	40.00	40.00	40.00	2000	5	A	A
4.30-5.30 PM	AADT * 1.226	50	42.50	42.50	42.50	2000	4.9	A	A
4.30-5.30 PM	AADT * 1.226	50	45.00	45.00	45.00	2000	4.9	A	A
4.30-5.30 PM	AADT * 1.226	50	47.50	47.50	47.50	2000	4.9	A	A
4.30-5.30 PM	AADT * 1.226	50	50.00	50.00	50.00	2000	4.8	A	A
4.30-5.30 PM	AADT * 1.226	50	52.50	52.50	52.50	2000	4.7	A	A
4.30-5.30 PM	AADT * 1.226	50	55.00	55.00	55.00	2000	4.7	A	A
4.30-5.30 PM	AADT * 1.226	50	57.50	57.50	57.50	2000	4.6	A	A
4.30-5.30 PM	AADT * 1.226	50	60.00	60.00	60.00	2000	4.6	A	A
4.30-5.30 PM	AADT * 1.226	50	62.50	62.50	62.50	2000	4.5	A	A
4.30-5.30 PM	AADT * 1.226	50	65.00	65.00	65.00	2000	4.4	A	A
4.30-5.30 PM	AADT * 1.226	50	67.50	67.50	67.50	2000	4.4	A	A
4.30-5.30 PM	AADT * 1.226	50	70.00	70.00	70.00	2000	4.3	A	A
4.30-5.30 PM	AADT * 1.226	50	72.50	72.50	72.50	2000	4.3	A	A
4.30-5.30 PM	AADT * 1.226	50	75.00	75.00	75.00	2000	4.3	A	A
4.30-5.30 PM	AADT * 1.84	50	25.00	25.00	25.00	3000	92.3	F	F
4.30-5.30 PM	AADT * 1.84	50	27.50	27.50	27.50	3000	91.3	F	F
4.30-5.30 PM	AADT * 1.84	50	30.00	30.00	30.00	3000	90.1	F	F
4.30-5.30 PM	AADT * 1.84	50	32.50	32.50	32.50	3000	88.5	F	F
4.30-5.30 PM	AADT * 1.84	50	35.00	35.00	35.00	3000	86.6	F	F
4.30-5.30 PM	AADT * 1.84	50	37.50	37.50	37.50	3000	84.2	F	F
4.30-5.30 PM	AADT * 1.84	50	40.00	40.00	40.00	3000	81.3	F	F
4.30-5.30 PM	AADT * 1.84	50	42.50	42.50	42.50	3000	78.3	E	F
4.30-5.30 PM	AADT * 1.84	50	45.00	45.00	45.00	3000	75.1	E	F
4.30-5.30 PM	AADT * 1.84	50	47.50	47.50	47.50	3000	71.4	E	F
4.30-5.30 PM	AADT * 1.84	50	50.00	50.00	50.00	3000	67.4	E	F
4.30-5.30 PM	AADT * 1.84	50	52.50	52.50	52.50	3000	63.3	E	F
4.30-5.30 PM	AADT * 1.84	50	55.00	55.00	55.00	3000	59	E	F
4.30-5.30 PM	AADT * 1.84	50	57.50	57.50	57.50	3000	55	D	F
4.30-5.30 PM	AADT * 1.84	50	60.00	60.00	60.00	3000	51.1	D	F
4.30-5.30 PM	AADT * 1.84	50	62.50	62.50	62.50	3000	47.6	D	E
4.30-5.30 PM	AADT * 1.84	50	65.00	65.00	65.00	3000	44.4	D	E
4.30-5.30 PM	AADT * 1.84	50	67.50	67.50	67.50	3000	41.5	D	E
4.30-5.30 PM	AADT * 1.84	50	70.00	70.00	70.00	3000	39.3	D	E
4.30-5.30 PM	AADT * 1.84	50	72.50	72.50	72.50	3000	37.7	D	E
4.30-5.30 PM	AADT * 1.84	50	75.00	75.00	75.00	3000	36.3	D	E
4.30-5.30 PM	AADT * 2.452	50	25.00	25.00	25.00	4000	460.6	F	F
4.30-5.30 PM	AADT * 2.452	50	27.50	27.50	27.50	4000	458.8	F	F
4.30-5.30 PM	AADT * 2.452	50	30.00	30.00	30.00	4000	456.6	F	F

4.30-5.30 PM	AADT * 2.452	50	32.50	32.50	32.50	4000	453.8	F	F
4.30-5.30 PM	AADT * 2.452	50	35.00	35.00	35.00	4000	450.4	F	F
4.30-5.30 PM	AADT * 2.452	50	37.50	37.50	37.50	4000	446.1	F	F
4.30-5.30 PM	AADT * 2.452	50	40.00	40.00	40.00	4000	441	F	F
4.30-5.30 PM	AADT * 2.452	50	42.50	42.50	42.50	4000	434.8	F	F
4.30-5.30 PM	AADT * 2.452	50	45.00	45.00	45.00	4000	427.5	F	F
4.30-5.30 PM	AADT * 2.452	50	47.50	47.50	47.50	4000	419	F	F
4.30-5.30 PM	AADT * 2.452	50	50.00	50.00	50.00	4000	409.3	F	F
4.30-5.30 PM	AADT * 2.452	50	52.50	52.50	52.50	4000	398.7	F	F
4.30-5.30 PM	AADT * 2.452	50	55.00	55.00	55.00	4000	387.1	F	F
4.30-5.30 PM	AADT * 2.452	50	57.50	57.50	57.50	4000	374.9	F	F
4.30-5.30 PM	AADT * 2.452	50	60.00	60.00	60.00	4000	362.5	F	F
4.30-5.30 PM	AADT * 2.452	50	62.50	62.50	62.50	4000	350.3	F	F
4.30-5.30 PM	AADT * 2.452	50	65.00	65.00	65.00	4000	338.8	F	F
4.30-5.30 PM	AADT * 2.452	50	67.50	67.50	67.50	4000	328.3	F	F
4.30-5.30 PM	AADT * 2.452	50	70.00	70.00	70.00	4000	318.6	F	F
4.30-5.30 PM	AADT * 2.452	50	72.50	72.50	72.50	4000	310.6	F	F
4.30-5.30 PM	AADT * 2.452	50	75.00	75.00	75.00	4000	303.6	F	F
8.30-9.30 AM	AADT * 1	85	25.00	25.00	25.00	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	27.50	27.50	27.50	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	30.00	30.00	30.00	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	32.50	32.50	32.50	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	35.00	35.00	35.00	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	37.50	37.50	37.50	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	40.00	40.00	40.00	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	42.50	42.50	42.50	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	45.00	45.00	45.00	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	47.50	47.50	47.50	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	50.00	50.00	50.00	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	52.50	52.50	52.50	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	55.00	55.00	55.00	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	57.50	57.50	57.50	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	60.00	60.00	60.00	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	62.50	62.50	62.50	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	65.00	65.00	65.00	841	2.4	A	A
8.30-9.30 AM	AADT * 1	85	67.50	67.50	67.50	841	2.5	A	A
8.30-9.30 AM	AADT * 1	85	70.00	70.00	70.00	841	2.4	A	A
8.30-9.30 AM	AADT * 1	85	72.50	72.50	72.50	841	2.4	A	A
8.30-9.30 AM	AADT * 1	85	75.00	75.00	75.00	841	2.4	A	A
8.30-9.30 AM	AADT * 2.378	85	25.00	25.00	25.00	2000	11.1	B	B
8.30-9.30 AM	AADT * 2.378	85	27.50	27.50	27.50	2000	11	B	B
8.30-9.30 AM	AADT * 2.378	85	30.00	30.00	30.00	2000	10.9	B	B
8.30-9.30 AM	AADT * 2.378	85	32.50	32.50	32.50	2000	10.7	B	B
8.30-9.30 AM	AADT * 2.378	85	35.00	35.00	35.00	2000	10.5	B	B
8.30-9.30 AM	AADT * 2.378	85	37.50	37.50	37.50	2000	10.3	B	B
8.30-9.30 AM	AADT * 2.378	85	40.00	40.00	40.00	2000	10.1	B	B
8.30-9.30 AM	AADT * 2.378	85	42.50	42.50	42.50	2000	9.8	A	A
8.30-9.30 AM	AADT * 2.378	85	45.00	45.00	45.00	2000	9.5	A	A

8.30-9.30 AM	AADT * 2.378	85	47.50	47.50	47.50	2000	9.1	A	A
8.30-9.30 AM	AADT * 2.378	85	50.00	50.00	50.00	2000	8.8	A	A
8.30-9.30 AM	AADT * 2.378	85	52.50	52.50	52.50	2000	8.4	A	A
8.30-9.30 AM	AADT * 2.378	85	55.00	55.00	55.00	2000	8	A	A
8.30-9.30 AM	AADT * 2.378	85	57.50	57.50	57.50	2000	7.7	A	A
8.30-9.30 AM	AADT * 2.378	85	60.00	60.00	60.00	2000	7.4	A	A
8.30-9.30 AM	AADT * 2.378	85	62.50	62.50	62.50	2000	7.1	A	A
8.30-9.30 AM	AADT * 2.378	85	65.00	65.00	65.00	2000	6.8	A	A
8.30-9.30 AM	AADT * 2.378	85	67.50	67.50	67.50	2000	6.6	A	A
8.30-9.30 AM	AADT * 2.378	85	70.00	70.00	70.00	2000	6.4	A	A
8.30-9.30 AM	AADT * 2.378	85	72.50	72.50	72.50	2000	6.3	A	A
8.30-9.30 AM	AADT * 2.378	85	75.00	75.00	75.00	2000	6.1	A	A
8.30-9.30 AM	AADT * 3.567	85	25.00	25.00	25.00	3000	350.9	F	F
8.30-9.30 AM	AADT * 3.567	85	27.50	27.50	27.50	3000	349.2	F	F
8.30-9.30 AM	AADT * 3.567	85	30.00	30.00	30.00	3000	347.2	F	F
8.30-9.30 AM	AADT * 3.567	85	32.50	32.50	32.50	3000	344.5	F	F
8.30-9.30 AM	AADT * 3.567	85	35.00	35.00	35.00	3000	341.3	F	F
8.30-9.30 AM	AADT * 3.567	85	37.50	37.50	37.50	3000	337.3	F	F
8.30-9.30 AM	AADT * 3.567	85	40.00	40.00	40.00	3000	332.5	F	F
8.30-9.30 AM	AADT * 3.567	85	42.50	42.50	42.50	3000	326.7	F	F
8.30-9.30 AM	AADT * 3.567	85	45.00	45.00	45.00	3000	319.7	F	F
8.30-9.30 AM	AADT * 3.567	85	47.50	47.50	47.50	3000	311.7	F	F
8.30-9.30 AM	AADT * 3.567	85	50.00	50.00	50.00	3000	302.6	F	F
8.30-9.30 AM	AADT * 3.567	85	52.50	52.50	52.50	3000	292.4	F	F
8.30-9.30 AM	AADT * 3.567	85	55.00	55.00	55.00	3000	281.5	F	F
8.30-9.30 AM	AADT * 3.567	85	57.50	57.50	57.50	3000	269.9	F	F
8.30-9.30 AM	AADT * 3.567	85	60.00	60.00	60.00	3000	258.2	F	F
8.30-9.30 AM	AADT * 3.567	85	62.50	62.50	62.50	3000	246.6	F	F
8.30-9.30 AM	AADT * 3.567	85	65.00	65.00	65.00	3000	235.4	F	F
8.30-9.30 AM	AADT * 3.567	85	67.50	67.50	67.50	3000	225.1	F	F
8.30-9.30 AM	AADT * 3.567	85	70.00	70.00	70.00	3000	215.8	F	F
8.30-9.30 AM	AADT * 3.567	85	72.50	72.50	72.50	3000	207.6	F	F
8.30-9.30 AM	AADT * 3.567	85	75.00	75.00	75.00	3000	200.5	F	F
8.30-9.30 AM	AADT * 4.756	85	25.00	25.00	25.00	4000	754.8	F	F
8.30-9.30 AM	AADT * 4.756	85	27.50	27.50	27.50	4000	752.7	F	F
8.30-9.30 AM	AADT * 4.756	85	30.00	30.00	30.00	4000	750.1	F	F
8.30-9.30 AM	AADT * 4.756	85	32.50	32.50	32.50	4000	746.8	F	F
8.30-9.30 AM	AADT * 4.756	85	35.00	35.00	35.00	4000	742.7	F	F
8.30-9.30 AM	AADT * 4.756	85	37.50	37.50	37.50	4000	737.7	F	F
8.30-9.30 AM	AADT * 4.756	85	40.00	40.00	40.00	4000	731.5	F	F
8.30-9.30 AM	AADT * 4.756	85	42.50	42.50	42.50	4000	724.1	F	F
8.30-9.30 AM	AADT * 4.756	85	45.00	45.00	45.00	4000	715.2	F	F
8.30-9.30 AM	AADT * 4.756	85	47.50	47.50	47.50	4000	704.8	F	F
8.30-9.30 AM	AADT * 4.756	85	50.00	50.00	50.00	4000	692.8	F	F
8.30-9.30 AM	AADT * 4.756	85	52.50	52.50	52.50	4000	679.4	F	F
8.30-9.30 AM	AADT * 4.756	85	55.00	55.00	55.00	4000	664.8	F	F
8.30-9.30 AM	AADT * 4.756	85	57.50	57.50	57.50	4000	649.3	F	F
8.30-9.30 AM	AADT * 4.756	85	60.00	60.00	60.00	4000	633.2	F	F

8.30-9.30 AM	AADT * 4.756	85	62.50	62.50	62.50	4000	617.2	F	F
8.30-9.30 AM	AADT * 4.756	85	65.00	65.00	65.00	4000	601.7	F	F
8.30-9.30 AM	AADT * 4.756	85	67.50	67.50	67.50	4000	587.1	F	F
8.30-9.30 AM	AADT * 4.756	85	70.00	70.00	70.00	4000	573.8	F	F
8.30-9.30 AM	AADT * 4.756	85	72.50	72.50	72.50	4000	561.9	F	F
8.30-9.30 AM	AADT * 4.756	85	75.00	75.00	75.00	4000	551.5	F	F
12.30-1.30 PM	AADT * 1	85	25.00	25.00	25.00	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	27.50	27.50	27.50	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	30.00	30.00	30.00	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	32.50	32.50	32.50	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	35.00	35.00	35.00	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	37.50	37.50	37.50	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	40.00	40.00	40.00	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	42.50	42.50	42.50	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	45.00	45.00	45.00	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	47.50	47.50	47.50	1096	3.1	A	A
12.30-1.30 PM	AADT * 1	85	50.00	50.00	50.00	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	52.50	52.50	52.50	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	55.00	55.00	55.00	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	57.50	57.50	57.50	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	60.00	60.00	60.00	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	62.50	62.50	62.50	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	65.00	65.00	65.00	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	67.50	67.50	67.50	1096	3	A	A
12.30-1.30 PM	AADT * 1	85	70.00	70.00	70.00	1096	2.9	A	A
12.30-1.30 PM	AADT * 1	85	72.50	72.50	72.50	1096	2.9	A	A
12.30-1.30 PM	AADT * 1	85	75.00	75.00	75.00	1096	2.9	A	A
12.30-1.30 PM	AADT * 1.82	85	25.00	25.00	25.00	2000	7.3	A	A
12.30-1.30 PM	AADT * 1.82	85	27.50	27.50	27.50	2000	7.3	A	A
12.30-1.30 PM	AADT * 1.82	85	30.00	30.00	30.00	2000	7.2	A	A
12.30-1.30 PM	AADT * 1.82	85	32.50	32.50	32.50	2000	7.2	A	A
12.30-1.30 PM	AADT * 1.82	85	35.00	35.00	35.00	2000	7.2	A	A
12.30-1.30 PM	AADT * 1.82	85	37.50	37.50	37.50	2000	7.1	A	A
12.30-1.30 PM	AADT * 1.82	85	40.00	40.00	40.00	2000	7	A	A
12.30-1.30 PM	AADT * 1.82	85	42.50	42.50	42.50	2000	6.9	A	A
12.30-1.30 PM	AADT * 1.82	85	45.00	45.00	45.00	2000	6.9	A	A
12.30-1.30 PM	AADT * 1.82	85	47.50	47.50	47.50	2000	6.8	A	A
12.30-1.30 PM	AADT * 1.82	85	50.00	50.00	50.00	2000	6.6	A	A
12.30-1.30 PM	AADT * 1.82	85	52.50	52.50	52.50	2000	6.5	A	A
12.30-1.30 PM	AADT * 1.82	85	55.00	55.00	55.00	2000	6.4	A	A
12.30-1.30 PM	AADT * 1.82	85	57.50	57.50	57.50	2000	6.3	A	A
12.30-1.30 PM	AADT * 1.82	85	60.00	60.00	60.00	2000	6.2	A	A
12.30-1.30 PM	AADT * 1.82	85	62.50	62.50	62.50	2000	6	A	A
12.30-1.30 PM	AADT * 1.82	85	65.00	65.00	65.00	2000	5.9	A	A
12.30-1.30 PM	AADT * 1.82	85	67.50	67.50	67.50	2000	5.8	A	A
12.30-1.30 PM	AADT * 1.82	85	70.00	70.00	70.00	2000	5.8	A	A
12.30-1.30 PM	AADT * 1.82	85	72.50	72.50	72.50	2000	5.7	A	A
12.30-1.30 PM	AADT * 1.82	85	75.00	75.00	75.00	2000	5.6	A	A

12.30-1.30 PM	AADT * 2.737	85	25.00	25.00	25.00	3000	233.5	F	F
12.30-1.30 PM	AADT * 2.737	85	27.50	27.50	27.50	3000	231.8	F	F
12.30-1.30 PM	AADT * 2.737	85	30.00	30.00	30.00	3000	229.7	F	F
12.30-1.30 PM	AADT * 2.737	85	32.50	32.50	32.50	3000	227	F	F
12.30-1.30 PM	AADT * 2.737	85	35.00	35.00	35.00	3000	223.8	F	F
12.30-1.30 PM	AADT * 2.737	85	37.50	37.50	37.50	3000	219.8	F	F
12.30-1.30 PM	AADT * 2.737	85	40.00	40.00	40.00	3000	214.9	F	F
12.30-1.30 PM	AADT * 2.737	85	42.50	42.50	42.50	3000	209.1	F	F
12.30-1.30 PM	AADT * 2.737	85	45.00	45.00	45.00	3000	202.4	F	F
12.30-1.30 PM	AADT * 2.737	85	47.50	47.50	47.50	3000	194.6	F	F
12.30-1.30 PM	AADT * 2.737	85	50.00	50.00	50.00	3000	186	F	F
12.30-1.30 PM	AADT * 2.737	85	52.50	52.50	52.50	3000	176.6	F	F
12.30-1.30 PM	AADT * 2.737	85	55.00	55.00	55.00	3000	166.8	F	F
12.30-1.30 PM	AADT * 2.737	85	57.50	57.50	57.50	3000	156.7	F	F
12.30-1.30 PM	AADT * 2.737	85	60.00	60.00	60.00	3000	146.8	F	F
12.30-1.30 PM	AADT * 2.737	85	62.50	62.50	62.50	3000	136.9	F	F
12.30-1.30 PM	AADT * 2.737	85	65.00	65.00	65.00	3000	127.6	F	F
12.30-1.30 PM	AADT * 2.737	85	67.50	67.50	67.50	3000	119.1	F	F
12.30-1.30 PM	AADT * 2.737	85	70.00	70.00	70.00	3000	111.4	F	F
12.30-1.30 PM	AADT * 2.737	85	72.50	72.50	72.50	3000	104.7	F	F
12.30-1.30 PM	AADT * 2.737	85	75.00	75.00	75.00	3000	98.9	F	F
12.30-1.30 PM	AADT *3.65	85	25.00	25.00	25.00	4000	681.5	F	F
12.30-1.30 PM	AADT *3.65	85	27.50	27.50	27.50	4000	679.2	F	F
12.30-1.30 PM	AADT *3.65	85	30.00	30.00	30.00	4000	676.5	F	F
12.30-1.30 PM	AADT *3.65	85	32.50	32.50	32.50	4000	673	F	F
12.30-1.30 PM	AADT *3.65	85	35.00	35.00	35.00	4000	668.6	F	F
12.30-1.30 PM	AADT *3.65	85	37.50	37.50	37.50	4000	663.2	F	F
12.30-1.30 PM	AADT *3.65	85	40.00	40.00	40.00	4000	656.6	F	F
12.30-1.30 PM	AADT *3.65	85	42.50	42.50	42.50	4000	648.6	F	F
12.30-1.30 PM	AADT *3.65	85	45.00	45.00	45.00	4000	639.1	F	F
12.30-1.30 PM	AADT *3.65	85	47.50	47.50	47.50	4000	627.8	F	F
12.30-1.30 PM	AADT *3.65	85	50.00	50.00	50.00	4000	615.1	F	F
12.30-1.30 PM	AADT *3.65	85	52.50	52.50	52.50	4000	600.7	F	F
12.30-1.30 PM	AADT *3.65	85	55.00	55.00	55.00	4000	585	F	F
12.30-1.30 PM	AADT *3.65	85	57.50	57.50	57.50	4000	568.4	F	F
12.30-1.30 PM	AADT *3.65	85	60.00	60.00	60.00	4000	551.4	F	F
12.30-1.30 PM	AADT *3.65	85	62.50	62.50	62.50	4000	534.6	F	F
12.30-1.30 PM	AADT *3.65	85	65.00	65.00	65.00	4000	518.4	F	F
12.30-1.30 PM	AADT *3.65	85	67.50	67.50	67.50	4000	503.5	F	F
12.30-1.30 PM	AADT *3.65	85	70.00	70.00	70.00	4000	490	F	F
12.30-1.30 PM	AADT *3.65	85	72.50	72.50	72.50	4000	478.3	F	F
12.30-1.30 PM	AADT *3.65	85	75.00	75.00	75.00	4000	468.2	F	F
4.30-5.30 PM	AADT * 1	85	25.00	25.00	25.00	1631	4.7	A	A
4.30-5.30 PM	AADT * 1	85	27.50	27.50	27.50	1631	4.7	A	A
4.30-5.30 PM	AADT * 1	85	30.00	30.00	30.00	1631	4.7	A	A
4.30-5.30 PM	AADT * 1	85	32.50	32.50	32.50	1631	4.7	A	A
4.30-5.30 PM	AADT * 1	85	35.00	35.00	35.00	1631	4.7	A	A
4.30-5.30 PM	AADT * 1	85	37.50	37.50	37.50	1631	4.7	A	A

4.30-5.30 PM	AADT * 1	85	40.00	40.00	40.00	1631	4.6	A	A
4.30-5.30 PM	AADT * 1	85	42.50	42.50	42.50	1631	4.6	A	A
4.30-5.30 PM	AADT * 1	85	45.00	45.00	45.00	1631	4.6	A	A
4.30-5.30 PM	AADT * 1	85	47.50	47.50	47.50	1631	4.6	A	A
4.30-5.30 PM	AADT * 1	85	50.00	50.00	50.00	1631	4.5	A	A
4.30-5.30 PM	AADT * 1	85	52.50	52.50	52.50	1631	4.5	A	A
4.30-5.30 PM	AADT * 1	85	55.00	55.00	55.00	1631	4.4	A	A
4.30-5.30 PM	AADT * 1	85	57.50	57.50	57.50	1631	4.4	A	A
4.30-5.30 PM	AADT * 1	85	60.00	60.00	60.00	1631	4.4	A	A
4.30-5.30 PM	AADT * 1	85	62.50	62.50	62.50	1631	4.3	A	A
4.30-5.30 PM	AADT * 1	85	65.00	65.00	65.00	1631	4.3	A	A
4.30-5.30 PM	AADT * 1	85	67.50	67.50	67.50	1631	4.3	A	A
4.30-5.30 PM	AADT * 1	85	70.00	70.00	70.00	1631	4.2	A	A
4.30-5.30 PM	AADT * 1	85	72.50	72.50	72.50	1631	4.2	A	A
4.30-5.30 PM	AADT * 1	85	75.00	75.00	75.00	1631	4.2	A	A
4.30-5.30 PM	AADT * 1.226	85	25.00	25.00	25.00	2000	7.7	A	A
4.30-5.30 PM	AADT * 1.226	85	27.50	27.50	27.50	2000	7.7	A	A
4.30-5.30 PM	AADT * 1.226	85	30.00	30.00	30.00	2000	7.6	A	A
4.30-5.30 PM	AADT * 1.226	85	32.50	32.50	32.50	2000	7.6	A	A
4.30-5.30 PM	AADT * 1.226	85	35.00	35.00	35.00	2000	7.6	A	A
4.30-5.30 PM	AADT * 1.226	85	37.50	37.50	37.50	2000	7.5	A	A
4.30-5.30 PM	AADT * 1.226	85	40.00	40.00	40.00	2000	7.4	A	A
4.30-5.30 PM	AADT * 1.226	85	42.50	42.50	42.50	2000	7.4	A	A
4.30-5.30 PM	AADT * 1.226	85	45.00	45.00	45.00	2000	7.3	A	A
4.30-5.30 PM	AADT * 1.226	85	47.50	47.50	47.50	2000	7.2	A	A
4.30-5.30 PM	AADT * 1.226	85	50.00	50.00	50.00	2000	7	A	A
4.30-5.30 PM	AADT * 1.226	85	52.50	52.50	52.50	2000	6.9	A	A
4.30-5.30 PM	AADT * 1.226	85	55.00	55.00	55.00	2000	6.8	A	A
4.30-5.30 PM	AADT * 1.226	85	57.50	57.50	57.50	2000	6.7	A	A
4.30-5.30 PM	AADT * 1.226	85	60.00	60.00	60.00	2000	6.5	A	A
4.30-5.30 PM	AADT * 1.226	85	62.50	62.50	62.50	2000	6.4	A	A
4.30-5.30 PM	AADT * 1.226	85	65.00	65.00	65.00	2000	6.3	A	A
4.30-5.30 PM	AADT * 1.226	85	67.50	67.50	67.50	2000	6.2	A	A
4.30-5.30 PM	AADT * 1.226	85	70.00	70.00	70.00	2000	6.1	A	A
4.30-5.30 PM	AADT * 1.226	85	72.50	72.50	72.50	2000	6	A	A
4.30-5.30 PM	AADT * 1.226	85	75.00	75.00	75.00	2000	6	A	A
4.30-5.30 PM	AADT * 1.84	85	25.00	25.00	25.00	3000	207.3	F	F
4.30-5.30 PM	AADT * 1.84	85	27.50	27.50	27.50	3000	206.1	F	F
4.30-5.30 PM	AADT * 1.84	85	30.00	30.00	30.00	3000	204.5	F	F
4.30-5.30 PM	AADT * 1.84	85	32.50	32.50	32.50	3000	202.6	F	F
4.30-5.30 PM	AADT * 1.84	85	35.00	35.00	35.00	3000	200.1	F	F
4.30-5.30 PM	AADT * 1.84	85	37.50	37.50	37.50	3000	197.2	F	F
4.30-5.30 PM	AADT * 1.84	85	40.00	40.00	40.00	3000	193.6	F	F
4.30-5.30 PM	AADT * 1.84	85	42.50	42.50	42.50	3000	189.3	F	F
4.30-5.30 PM	AADT * 1.84	85	45.00	45.00	45.00	3000	184.3	F	F
4.30-5.30 PM	AADT * 1.84	85	47.50	47.50	47.50	3000	178.5	F	F
4.30-5.30 PM	AADT * 1.84	85	50.00	50.00	50.00	3000	172	F	F
4.30-5.30 PM	AADT * 1.84	85	52.50	52.50	52.50	3000	164.6	F	F

4.30-5.30 PM	AADT * 1.84	85	55.00	55.00	55.00	3000	156.8	F	F
4.30-5.30 PM	AADT * 1.84	85	57.50	57.50	57.50	3000	148.7	F	F
4.30-5.30 PM	AADT * 1.84	85	60.00	60.00	60.00	3000	140.6	F	F
4.30-5.30 PM	AADT * 1.84	85	62.50	62.50	62.50	3000	134.1	F	F
4.30-5.30 PM	AADT * 1.84	85	65.00	65.00	65.00	3000	128.2	F	F
4.30-5.30 PM	AADT * 1.84	85	67.50	67.50	67.50	3000	122.9	F	F
4.30-5.30 PM	AADT * 1.84	85	70.00	70.00	70.00	3000	118.4	F	F
4.30-5.30 PM	AADT * 1.84	85	72.50	72.50	72.50	3000	114.7	F	F
4.30-5.30 PM	AADT * 1.84	85	75.00	75.00	75.00	3000	111.6	F	F
4.30-5.30 PM	AADT * 2.452	85	25.00	25.00	25.00	4000	638.7	F	F
4.30-5.30 PM	AADT * 2.452	85	27.50	27.50	27.50	4000	636.8	F	F
4.30-5.30 PM	AADT * 2.452	85	30.00	30.00	30.00	4000	634.4	F	F
4.30-5.30 PM	AADT * 2.452	85	32.50	32.50	32.50	4000	631.3	F	F
4.30-5.30 PM	AADT * 2.452	85	35.00	35.00	35.00	4000	627.6	F	F
4.30-5.30 PM	AADT * 2.452	85	37.50	37.50	37.50	4000	622.9	F	F
4.30-5.30 PM	AADT * 2.452	85	40.00	40.00	40.00	4000	617.2	F	F
4.30-5.30 PM	AADT * 2.452	85	42.50	42.50	42.50	4000	610.4	F	F
4.30-5.30 PM	AADT * 2.452	85	45.00	45.00	45.00	4000	602.4	F	F
4.30-5.30 PM	AADT * 2.452	85	47.50	47.50	47.50	4000	593	F	F
4.30-5.30 PM	AADT * 2.452	85	50.00	50.00	50.00	4000	582.3	F	F
4.30-5.30 PM	AADT * 2.452	85	52.50	52.50	52.50	4000	570.3	F	F
4.30-5.30 PM	AADT * 2.452	85	55.00	55.00	55.00	4000	557.3	F	F
4.30-5.30 PM	AADT * 2.452	85	57.50	57.50	57.50	4000	543.7	F	F
4.30-5.30 PM	AADT * 2.452	85	60.00	60.00	60.00	4000	529.9	F	F
4.30-5.30 PM	AADT * 2.452	85	62.50	62.50	62.50	4000	516.3	F	F
4.30-5.30 PM	AADT * 2.452	85	65.00	65.00	65.00	4000	503.2	F	F
4.30-5.30 PM	AADT * 2.452	85	67.50	67.50	67.50	4000	490.8	F	F
4.30-5.30 PM	AADT * 2.452	85	70.00	70.00	70.00	4000	479.8	F	F
4.30-5.30 PM	AADT * 2.452	85	72.50	72.50	72.50	4000	470	F	F
4.30-5.30 PM	AADT * 2.452	85	75.00	75.00	75.00	4000	461.5	F	F

APPENDIX B

CHECK RANGE FOR EACH GEOMETRIC PARAMETER

HALF WIDTH					
ERB/ERBSVILLE/IRA-NEEDLE ROUNDABOUT –CONFIDENCE LEVEL 50					
	CONFIDENCE LEVEL	AADT	MEAN AVERAGE DELAY	CHECK RANGE	ACCURACY (100 - CHECK RANGE)
MORNING	50	ORIGINAL	3.1	22.5	77.5
	50	2000	3.6	25	75
	50	3000	10.7	30	70
	50	4000	124	25	75
NOON	50	ORIGINAL	2.4	25	75
	50	2000	3.6	25	75
	50	3000	9.1	27.5	72.5
	50	4000	94.3	25	75
AFTER NOON	50	ORIGINAL	3.3	25	75
	50	2000	3.5	25	75
	50	3000	7.6	25	75
	50	4000	92.9	25	75
ERB/ERBSVILLE/IRA-NEEDLE ROUNDABOUT—CONFIDENCE LEVEL 85					
MORNING	85	ORIGINAL	4.1	25	75
	85	2000	5	22.5	77.5
	85	3000	36.7	22.5	77.5
	85	4000	235.6	25	75
NOON	85	ORIGINAL	2.9	25	75
	85	2000	4.7	25	75
	85	3000	29.5	30	70
	85	4000	191.9	25	75
AFTER NOON	85	ORIGINAL	4.2	25	75
	85	2000	4.6	22.5	77.5
	85	3000	22.7	22.5	77.5
	85	4000	184.1	25	75

HALF WIDTH					
IRA-NEEDLE/TRUSSLER/HIGHVIEW ROUNDABOUT –CONFIDENCE LEVEL 50					
	CONFIDENCE LEVEL	AADT	MEAN AVERAGE DELAY	CHECK RANGE	ACCURACY (100 - CHECK RANGE)
MORNING	50	ORIGINAL	2.5	15	85
	50	2000	3.5	20	80
	50	3000	9.5	22.5	77.5
	50	4000	117.4	20	80
NOON	50	ORIGINAL	2	20	80
	50	2000	3.3	22.5	77.5
	50	3000	6.1	22.5	77.5
	50	4000	50.4	22.5	77.5
AFTER NOON	50	ORIGINAL	2.5	20	80
	50	2000	3.1	20	80
	50	3000	6.3	22.5	77.5
	50	4000	68.8	22.5	77.5
IRA-NEEDLE/TRUSSLER/HIGHVIEW ROUNDABOUT –CONFIDENCE LEVEL 85					
MORNING	85	ORIGINAL	3	20	80
	85	2000	4.7	20	80
	85	3000	43.3	22.5	77.5
	85	4000	242.8	20	80
NOON	85	ORIGINAL	2.3	20	80
	85	2000	4.1	20	80
	85	3000	12.4	25	75
	85	4000	146.8	20	80
AFTER NOON	85	ORIGINAL	3	20	80
	85	2000	3.9	20	80
	85	3000	12.8	25	75
	85	4000	142.2	22.5	77.5

HALF WIDTH					
CONGESTOGA/CAN-AMERA ROUNDABOUT—CONFIDENCE LEVEL 50					
	CONFIDENCE LEVEL	AADT	MEAN AVERAGE DELAY	CHECK RANGE	ACCURACY (100 – CHECK RANGE)
MORNING	50	ORIGINAL	2.4	25	75
	50	2000	6.7	25	75
	50	3000	236.5	22.5	77.5
NOON	50	ORIGINAL	3	25	75
	50	2000	6.2	27.5	72.5
	50	3000	141.4	25	75
AFTER NOON	50	ORIGINAL	4.4	27.5	72.5
	50	2000	6.8	27.5	72.5
	50	3000	141.9	25	75
CONGESTOGA/CAN-AMERA ROUNDABOUT—CONFIDENCE LEVEL 85					
MORNING	85	ORIGINAL	2.8	25	75
	85	2000	15.9	30	70
	85	3000	367.6	22.5	77.5
NOON	85	ORIGINAL	3.3	25	75
	85	2000	11.5	30	70
	85	3000	280.5	25	75
AFTER NOON	85	ORIGINAL	6.3	27.5	72.5
	85	2000	16.1	30	70
	85	3000	281.7	25	75

ENTRY WIDTH					
ERB/ERBSVILLE/IRA-NEEDLE ROUNDABOUT—CONFIDENCE LEVEL 50					
	CONFIDENCE LEVEL	AADT	MEAN AVERAGE DELAY	CHECK RANGE	ACCURACY (100 - CHECK RANGE)
MORNING	50	ORIGINAL	2.47	5	95
	50	2000	2.8	10	90
	50	3000	4.71	7.5	92.5
	50	4000	22.74	20	80
NOON	50	ORIGINAL	1.99	15	85
	50	2000	2.63	10	90
	50	3000	4.2	7.5	92.5
	50	4000	19.24	7.5	92.5
AFTER NOON	50	ORIGINAL	2.53	10	90
	50	2000	2.64	10	90
	50	3000	4.3	7.5	92.5
	50	4000	30.9	7.5	92.5
ERB/ERBSVILLE/IRA-NEEDLE ROUNDABOUT—CONFIDENCE LEVEL 85					
MORNING	85	ORIGINAL	2.9	10	90
	85	2000	3.4	7.5	92.5
	85	3000	7.1	5	95
	85	4000	94.2	7.5	92.5
NOON	85	ORIGINAL	2.3	5	95
	85	2000	3.2	7.5	92.5
	85	3000	5.9	7.5	92.5
	85	4000	62.9	7.5	92.5
AFTER NOON	85	ORIGINAL	3	7.5	92.5
	85	2000	3.2	7.5	92.5
	85	3000	6.4	7.5	92.5
	85	4000	82.5	7.5	92.5

ENTRY WIDTH					
IRA-NEEDLE/TRUSSLER/HIGHVIEW ROUNDABOUT—CONFIDENCE LEVEL 50					
	CONFIDENCE LEVEL	AADT	MEAN AVERAGE DELAY	CHECK RANGE	ACCURACY (100 - CHECK RANGE)
MORNING	50	ORIGINAL	2.1	15	85
	50	2000	2.9	12.5	87.5
	50	3000	5.2	10	90
	50	4000	52.9	12.5	87.5
NOON	50	ORIGINAL	1.7	15	85
	50	2000	2.7	15	85
	50	3000	4.9	10	90
	50	4000	47.5	12.5	87.5
AFTER NOON	50	ORIGINAL	2.1	10	90
	50	2000	2.4	15	85
	50	3000	3.8	10	90
	50	4000	19.3	10	90
IRA-NEEDLE/TRUSSLER/HIGHVIEW ROUNDABOUT—CONFIDENCE LEVEL 85					
MORNING	85	ORIGINAL	2.4	15	85
	85	2000	3.4	12.5	87.5
	85	3000	14.5	7.5	92.5
	85	4000	133.3	15	85
NOON	85	ORIGINAL	1.9	15	85
	85	2000	3.3	12.5	87.5
	85	3000	11	5	95
	85	4000	118.1	12.5	87.5
AFTER NOON	85	ORIGINAL	2.4	7.5	92.5
	85	2000	2.9	12.5	87.5
	85	3000	5.5	10	90
	85	4000	44.6	10	90

ENTRY WIDTH					
CONGESTOGA/CAN-AMERA ROUNDABOUT—CONFIDENCE LEVEL 50					
	CONFIDENCE LEVEL	AADT	MEAN AVERAGE DELAY	CHECK RANGE	ACCURACY (100 - CHECK RANGE)
MORNING	50	ORIGINAL	2	10	90
	50	2000	4.6	5	95
	50	3000	153.4	7.5	92.5
NOON	50	ORIGINAL	2.4	10	90
	50	2000	4.2	7.5	92.5
	50	3000	60.6	7.5	92.5
AFTER NOON	50	ORIGINAL	3.2	10	90
	50	2000	4.3	7.5	92.5
	50	3000	48	10	90
CONGESTOGA/CAN-AMERA ROUNDABOUT—CONFIDENCE LEVEL 85					
MORNING	85	ORIGINAL	2.3	10	90
	85	2000	8.7	100	0
	85	3000	256.8	7.5	92.5
NOON	85	ORIGINAL	2.8	10	90
	85	2000	5.9	7.5	92.5
	85	3000	148.3	7.5	92.5
AFTER NOON	85	ORIGINAL	4.1	7.5	92.5
	85	2000	6.1	7.5	92.5
	85	3000	127.5	10	90

FLARE LENGTH					
ERB/ERBSVILLE/IRA-NEEDLE ROUNDABOUT—CONFIDENCE LEVEL 50					
	CONFIDENCE LEVEL	AADT	MEAN AVERAGE DELAY	CHECK RANGE	ACCURACY (100 - CHECK RANGE)
MORNING	50	ORIGINAL	2.66	7.5	92.5
	50	2000	3.2	0	100
	50	3000	5.41	10	90
	50	4000	18.23	10	90
NOON	50	ORIGINAL	2.1	0	100
	50	2000	2.84	7.5	92.5
	50	3000	4.71	10	90
	50	4000	28.84	10	90
AFTER NOON	50	ORIGINAL	2.71	0	100
	50	2000	2.86	5	95
	50	3000	4.98	15	85
	50	4000	49.56	10	90
ERB/ERBSVILLE/IRA-NEEDLE ROUNDABOUT—CONFIDENCE LEVEL 85					
MORNING	85	ORIGINAL	3.2	0	100
	85	2000	3.7	10	90
	85	3000	9.1	15	85
	85	4000	121.3	7.5	92.5
NOON	85	ORIGINAL	2.4	0	100
	85	2000	3.5	10	90
	85	3000	7.1	12.5	87.5
	85	4000	84.1	10	90
AFTER NOON	85	ORIGINAL	3.3	5	95
	85	2000	3.5	5	95
	85	3000	8.9	17.5	82.5
	85	4000	112.8	7.5	92.5

FLARE LENGTH					
IRA-NEEDLE/TRUSSLER/HIGHVIEW ROUNDABOUT—CONFIDENCE LEVEL 50					
	CONFIDENCE LEVEL	AADT	MEAN AVERAGE DELAY	CHECK RANGE	ACCURACY (100 - CHECK RANGE)
MORNING	50	ORIGINAL	2.4	0	100
	50	2000	3.2	0	100
	50	3000	6.8	10	90
	50	4000	90.3	10	90
NOON	50	ORIGINAL	1.9	0	100
	50	2000	2.9	0	100
	50	3000	5	0	100
	50	4000	27	10	90
AFTER NOON	50	ORIGINAL	2.3	0	100
	50	2000	2.8	0	100
	50	3000	4.8	5	95
	50	4000	31.4	10	90
IRA-NEEDLE/TRUSSLER/HIGHVIEW ROUNDABOUT—CONFIDENCE LEVEL 85					
MORNING	85	ORIGINAL	2.8	0	100
	85	2000	4.1	0	100
	85	3000	23.4	10	90
	85	4000	199.6	10	90
NOON	85	ORIGINAL	2.2	0	100
	85	2000	3.6	0	100
	85	3000	7.9	5	95
	85	4000	94.7	10	90
AFTER NOON	85	ORIGINAL	2.7	0	100
	85	2000	3.4	0	100
	85	3000	7	0	100
	85	4000	85.4	10	90

FLARE LENGTH					
CONGESTOGA/CAN-AMERA ROUNDABOUT—CONFIDENCE LEVEL 50					
	CONFIDENCE LEVEL	AADT	MEAN AVERAGE DELAY	CHECK RANGE	ACCURACY (100 - CHECK RANGE)
MORNING	50	ORIGINAL	2.2	0	100
	50	2000	5.4	12.5	87.5
	50	3000	195.4	7.5	92.5
NOON	50	ORIGINAL	2.6	0	100
	50	2000	4.8	10	90
	50	3000	89.4	7.5	92.5
AFTER NOON	50	ORIGINAL	3.6	5	95
	50	2000	4.9	10	90
	50	3000	74.1	10	90
CONGESTOGA/CAN-AMERA ROUNDABOUT—CONFIDENCE LEVEL 85					
MORNING	85	ORIGINAL	2.5	0	100
	85	2000	10.8	20	80
	85	3000	314.6	7.5	92.5
NOON	85	ORIGINAL	3.1	5	95
	85	2000	7	12.5	87.5
	85	3000	198.2	10	90
AFTER NOON	85	ORIGINAL	4.6	5	95
	85	2000	7.3	12.5	87.5
	85	3000	181.7	7.5	92.5

ENTRY RADIUS					
ERB/ERBSVILLE/IRA-NEEDLE ROUNDABOUT—CONFIDENCE LEVEL 50					
	CONFIDENCE LEVEL	AADT	MEAN AVERAGE DELAY	CHECK RANGE	ACCURACY (100 - CHECK RANGE)
MORNING	50	ORIGINAL	2.74	0	100
	50	2000	3.12	0	100
	50	3000	5.69	10	90
	50	4000	54.6	10	90
NOON	50	ORIGINAL	2.15	0	100
	50	2000	2.94	0	100
	50	3000	4.93	0	100
	50	4000	31.7	15	85
AFTER NOON	50	ORIGINAL	2.8	0	100
	50	2000	2.97	7.5	92.5
	50	3000	5.23	0	100
	50	4000	57.63	10	90
ERB/ERBSVILLE/IRA-NEEDLE ROUNDABOUT—CONFIDENCE LEVEL 85					
MORNING	85	ORIGINAL	3.3	0	100
	85	2000	3.8	0	100
	85	3000	9.6	15	85
	85	4000	132.2	10	90
NOON	85	ORIGINAL	2.5	0	100
	85	2000	3.6	0	100
	85	3000	7.5	10	90
	85	4000	92.4	10	90
AFTER NOON	85	ORIGINAL	3.4	0	100
	85	2000	3.7	15	85
	85	3000	9.3	15	85
	85	4000	123.9	10	90

ENTRY RADIUS					
IRA-NEEDLE/TRUSSLER/HIGHVIEW ROUNDABOUT—CONFIDENCE LEVEL 50					
	CONFIDENCE LEVEL	AADT	MEAN AVERAGE DELAY	CHECK RANGE	ACCURACY (100 - CHECK RANGE)
MORNING	50	ORIGINAL	2.4	0	100
	50	2000	3.2	0	100
	50	3000	6.8	10	90
	50	4000	90.2	10	90
NOON	50	ORIGINAL	1.9	0	100
	50	2000	3	5	95
	50	3000	5	0	100
	50	4000	27.3	12.5	87.5
AFTER NOON	50	ORIGINAL	2.4	10	90
	50	2000	2.8	0	100
	50	3000	4.8	5	95
	50	4000	33.2	15	85
IRA-NEEDLE/TRUSSLER/HIGHVIEW ROUNDABOUT—CONFIDENCE LEVEL 85					
MORNING	85	ORIGINAL	2.8	0	100
	85	2000	4.1	0	100
	85	3000	23.8	10	90
	85	4000	199.3	10	90
NOON	85	ORIGINAL	2.2	0	100
	85	2000	3.7	10	90
	85	3000	8	10	90
	85	4000	95.4	12.5	87.5
AFTER NOON	85	ORIGINAL	2.8	10	90
	85	2000	3.4	0	100
	85	3000	7.1	10	90
	85	4000	87.4	10	90

ENTRY RADIUS					
CONGESTOGA/CAN-AMERA ROUNDABOUT—CONFIDENCE LEVEL 50					
	CONFIDENCE LEVEL	AADT	MEAN AVERAGE DELAY	CHECK RANGE	ACCURACY (100 - CHECK RANGE)
MORNING	50	ORIGINAL	2.2	0	100
	50	2000	5.2	10	90
	50	3000	188.4	10	90
NOON	50	ORIGINAL	2.6	0	100
	50	2000	4.7	5	95
	50	3000	84.7	10	90
AFTER NOON	50	ORIGINAL	3.6	15	85
	50	2000	4.8	0	100
	50	3000	69.5	10	90
CONGESTOGA/CAN-AMERA ROUNDABOUT—CONFIDENCE LEVEL 85					
MORNING	85	ORIGINAL	2.5	0	100
	85	2000	9.1	15	85
	85	3000	306.3	10	90
NOON	85	ORIGINAL	3.1	5	95
	85	2000	6.7	10	90
	85	3000	190.8	12.5	87.5
AFTER NOON	85	ORIGINAL	4.6	10	90
	85	2000	7	5	95
	85	3000	175.3	10	90

ENTRY ANGLE (PHI)					
ERB/ERBSVILLE/IRA-NEEDLE ROUNDABOUT—CONFIDENCE LEVEL 50					
	CONFIDENCE LEVEL	AADT	MEAN AVERAGE DELAY	CHECK RANGE	ACCURACY (100 - CHECK RANGE)
MORNING	50	ORIGINAL	2.65	0	100
	50	2000	3	0	100
	50	3000	5.34	10	90
	50	4000	46.1	15	85
NOON	50	ORIGINAL	2.11	0	100
	50	2000	2.97	7.5	92.5
	50	3000	5	10	90
	50	4000	32.83	15	85
AFTER NOON	50	ORIGINAL	2.82	0	100
	50	2000	3	0	100
	50	3000	5.34	10	90
	50	4000	60.12	15	85
ERB/ERBSVILLE/IRA-NEEDLE ROUNDABOUT—CONFIDENCE LEVEL 85					
MORNING	85	ORIGINAL	3.2	0	100
	85	2000	3.7	10	90
	85	3000	8.6	20	80
	85	4000	119.2	15	85
NOON	85	ORIGINAL	2.4	0	100
	85	2000	3.6	0	100
	85	3000	7.6	15	85
	85	4000	94.8	15	85
AFTER NOON	85	ORIGINAL	3.5	15	85
	85	2000	3.7	10	90
	85	3000	9.8	17.5	82.5
	85	4000	127.8	15	85

ENTRY ANGLE (PHI)					
IRA-NEEDLE/TRUSSLER/HIGHVIEW ROUNDABOUT—CONFIDENCE LEVEL 50					
	CONFIDENCE LEVEL	AADT	MEAN AVERAGE DELAY	CHECK RANGE	ACCURACY (100 - CHECK RANGE)
MORNING	50	ORIGINAL	2.4	5	95
	50	2000	3.2	0	100
	50	3000	6.9	20	80
	50	4000	91.1	20	80
NOON	50	ORIGINAL	1.9	0	100
	50	2000	3	5	95
	50	3000	5.1	15	85
	50	4000	29.4	17.5	82.5
AFTER NOON	50	ORIGINAL	2.4	10	90
	50	2000	4.7	20	80
	50	3000	4.9	20	80
	50	4000	34.5	20	80
IRA-NEEDLE/TRUSSLER/HIGHVIEW ROUNDABOUT—CONFIDENCE LEVEL 85					
MORNING	85	ORIGINAL	2.8	0	100
	85	2000	4.2	15	85
	85	3000	25	17.5	82.5
	85	4000	201.6	20	80
NOON	85	ORIGINAL	2.1	0	100
	85	2000	3.7	10	90
	85	3000	8.3	20	80
	85	4000	99.6	20	80
AFTER NOON	85	ORIGINAL	2.8	10	90
	85	2000	3.5	15	85
	85	3000	7.3	20	80
	85	4000	90.7	20	80

ENTRY ANGLE (PHI)					
CONGESTOGA/CAN-AMERA ROUNDABOUT—CONFIDENCE LEVEL 50					
	CONFIDENCE LEVEL	AADT	MEAN AVERAGE DELAY	CHECK RANGE	ACCURACY (100 - CHECK RANGE)
MORNING	50	ORIGINAL	2.2	0	100
	50	2000	5.2	5	95
	50	3000	186.8	2.5	97.5
NOON	50	ORIGINAL	2.6	0	100
	50	2000	4.7	5	95
	50	3000	83.7	2.5	97.5
AFTER NOON	50	ORIGINAL	3.5	0	100
	50	2000	4.5	0	100
	50	3000	68.6	2.5	97.5
CONGESTOGA/CAN-AMERA ROUNDABOUT—CONFIDENCE LEVEL 85					
MORNING	85	ORIGINAL	2.5	0	100
	85	2000	9.3	7.5	92.5
	85	3000	303.7	2.5	97.5
NOON	85	ORIGINAL	3.1	5	95
	85	2000	6.7	5	95
	85	3000	188.9	2.5	97.5
AFTER NOON	85	ORIGINAL	4.6	5	95
	85	2000	6.4	5	95
	85	3000	173.8	2.5	97.5

INSCRIBED CIRCLE DIAMETER					
ERB/ERBSVILLE/IRA-NEEDLE ROUNDABOUT—CONFIDENCE LEVEL 50					
	CONFIDENCE LEVEL	AADT	MEAN AVERAGE DELAY	CHECK RANGE	ACCURACY (100 - CHECK RANGE)
MORNING	50	ORIGINAL	2.62	0	100
	50	2000	2.96	0	100
	50	3000	5.23	0	100
	50	4000	45.2	2.5	97.5
NOON	50	ORIGINAL	2.08	0	100
	50	2000	2.81	0	100
	50	3000	4.56	2.5	97.5
	50	4000	26.83	2.5	97.5
AFTER NOON	50	ORIGINAL	2.67	5	95
	50	2000	2.8	0	100
	50	3000	4.78	2.5	97.5
	50	4000	44.91	0	100
ERB/ERBSVILLE/IRA-NEEDLE ROUNDABOUT—CONFIDENCE LEVEL 85					
MORNING	85	ORIGINAL	3.2	0	100
	85	2000	3.6	0	100
	85	3000	8.4	2.5	97.5
	85	4000	111.6	2.5	97.5
NOON	85	ORIGINAL	2.4	0	100
	85	2000	3.4	0	100
	85	3000	6.7	2.5	97.5
	85	4000	76.8	2.5	97.5
AFTER NOON	85	ORIGINAL	3.2	0	100
	85	2000	3.4	0	100
	85	3000	7.9	2.5	97.5
	85	4000	103.9	2.5	97.5

INSCRIBED CIRCLE DIAMETER					
IRA-NEEDLE/TRUSSLER/HIGHVIEW ROUNDABOUT—CONFIDENCE LEVEL 50					
	CONFIDENCE LEVEL	AADT	MEAN AVERAGE DELAY	CHECK RANGE	ACCURACY (100 - CHECK RANGE)
MORNING	50	ORIGINAL	2.4	0	100
	50	2000	3.2	0	100
	50	3000	6.7	0	100
	50	4000	85.3	2.5	97.5
NOON	50	ORIGINAL	2	0	100
	50	2000	3.1	0	100
	50	3000	5.2	5	95
	50	4000	31.7	0	100
AFTER NOON	50	ORIGINAL	2.3	0	100
	50	2000	2.8	0	100
	50	3000	4.7	0	100
	50	4000	30.4	2.5	97.5
IRA-NEEDLE/TRUSSLER/HIGHVIEW ROUNDABOUT—CONFIDENCE LEVEL 85					
MORNING	85	ORIGINAL	2.8	0	100
	85	2000	4.1	0	100
	85	3000	23.3	2.5	97.5
	85	4000	186.3	5	95
NOON	85	ORIGINAL	2.2	0	100
	85	2000	3.8	0	100
	85	3000	8.8	2.5	97.5
	85	4000	101	2.5	97.5
AFTER NOON	85	ORIGINAL	2.7	0	100
	85	2000	3.4	0	100
	85	3000	6.9	5	95
	85	4000	84.3	0	100

INSCRIBED CIRCLE DIAMETER					
CONGESTOGA/CAN-AMERA ROUNDABOUT—CONFIDENCE LEVEL 50					
	CONFIDENCE LEVEL	AADT	MEAN AVERAGE DELAY	CHECK RANGE	ACCURACY (100 - CHECK RANGE)
MORNING	50	ORIGINAL	2.2	0	100
	50	2000	5	5	95
	50	3000	176.9	2.5	97.5
NOON	50	ORIGINAL	2.6	0	100
	50	2000	4.6	5	95
	50	3000	76.2	2.5	97.5
AFTER NOON	50	ORIGINAL	3.5	0	100
	50	2000	4.7	5	95
	50	3000	65.8	2.5	97.5
CONGESTOGA/CAN-AMERA ROUNDABOUT—CONFIDENCE LEVEL 85					
MORNING	85	ORIGINAL	2.5	0	100
	85	2000	8.7	2.5	97.5
	85	3000	290.3	2.5	97.5
NOON	85	ORIGINAL	3	0	100
	85	2000	6.8	5	95
	85	3000	177.1	2.5	97.5
AFTER NOON	85	ORIGINAL	4.5	0	100
	85	2000	6.9	5	95
	85	3000	165.5	2.5	97.5