TRAFFIC IMPACT ANALYSIS

BUSH BSP

Spokane, Washington

June 24, 2019

2019-2373

Prepared by:

Whipple Consulting Engineers, Inc. 21 S. Pines Road, Spokane Valley, WA 99206 (509) 893-2617

This report has been prepared by Travis Ellingsen E.I.T. and the staff of Whipple Consulting Engineers, Inc. under the direction of the undersigned professional engineer whose seal and signature appears hereon.



Todd R. Whipple, P.E.

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EXECUTIVE SUMMARY

Supplemental to the SEPA Process for the proposed Bush BSP, a seven (7) lot commercial development, the following Traffic Impact Analysis applies:

- 1. <u>City of Spokane and WSDOT</u> have established Level of Service D as the minimum acceptable level for signalized intersections and Level of Service E for unsignalized intersections.
- 2. The project site is currently undeveloped with field grass and weeds. The project proposes the development of 4.54 acres +/- into seven (7) commercial lots. Lot 1 & Lot 2 are anticipated to be developed as a part of Phase 1. Lot 1 is proposed to be developed with an automated carwash facility and Lot 2 is proposed to be developed with a drive through coffee shop. Lot 3 through Lot 7 are anticipated to be developed during future phases of the project. Assumptions were made for the land uses for Lot 3 through Lot 7 in order to determine the trip generations for the future lots. See Table 1, Lot Land Use Code Summary for additional information on potential land uses for each lot.
- 3. The site is proposed to be accessed from the west by two (2) interconnecting driveways to the Hilton parking lot on the west side of the property and one (1) driveway to Hilton Avenue on the south side of the property. There is currently an existing access easement that allows the project to be accessed via the right—in and right-out Hilton access on Highway 2. The access easement allows the site to use the Hiltons driveway connection to Highway 2 as an access as well as the two driveways that are proposed to connect to the Hilton's parking lot along the west side of the project property. The project proposes drive aisles and parking lots that provide access to the entire project property. Please see Figure 2 Preliminary Site Plan.
- 4. The site is currently zoned in the City of Spokane as Light Industrial (LI). The subject property is located on a portion of the NW 1/4 of Section 29, T 25N R 42E W.M., within the City of Spokane, Washington. The parcel number for the subject property is 25292.9066. The surrounding areas are also zoned as Light Industrial.
- 5. The project study area intersections were identified through conversations with the <u>City of Spokane</u> and <u>WSDOT</u>. The study encompasses the AM and PM peak hour analysis of the following intersections:
 - Highway 2 & Flint Road
 - Highway 2 & Hilton Access
 - Highway 2 & Technology Boulevard
- 6. As shown in Table 8, the proposed commercial development is anticipated to generate 147 new trips in the AM peak hour with 78 new trips entering the site and 69 new trips exiting the site. In the PM peak hour, the proposed development is anticipated to generate 169 new trips with 87 new trips entering the site and 82 new trips exiting the site.

7. This Traffic Impact Analysis (TIA) has reviewed and analyzed the study area per the scope established by the City of Spokane and WSDOT. The Level of Service analysis for the existing scenario found that the intersection of Highway 2 and Flint Road is anticipated to drop below an acceptable Level of Service during the PM peak hour for the 2025 without project scenario. However, the Level of Service can be brought back to an acceptable Level of Service for all scenarios by retiming of the signal. All other intersections are anticipated to operate at an acceptable level of service

Based upon the analysis, field observations, assumptions, methodologies and results which are provided in the body of this report, it is concluded that the development of the proposed project will generate new trips on the existing transportation system and that those trips will degrade LOS below concurrency levels at the intersection of Highway 2 and Flint Road in both the 2025 without project scenario and the 2025 with project scenario. However, the Level of Service can be brought back to an acceptable level of service with the retiming of the signal at the intersection of Highway 2 and Flint Road. This conclusion was reached and has been documented within the body of this report.

- Under the **existing** conditions there are no intersection Level of Service deficiencies identified.
- For the **year 2025 with background without project** scenario, the Level of Service for the intersection of Highway 2 and Flint Road is anticipated to drop below an acceptable Level of Service. However, the Level of Service can be brought back to an acceptable Level of Service with the retiming of the signal. There were no other intersection Level of Service deficiencies identified.
- For the **year 2025 with background with project** scenario, with the signal retiming, there are no intersection Level of Service deficiencies identified.

8. Recommendations

Based upon the conclusions within this study and the assumption that as a part of routine maintenance that the City of Spokane can retime the signal at the intersection of Highway 2 and Flint Road, the proposed project is recommended to complete all required conditions of approval including frontage improvements, participate as required in the City of Spokane's traffic impact fee at the time of building permit and should be allowed to move forward without further traffic analysis.

INTRODUCTION

Introduction, Purpose of Report and Study Area

This Traffic Impact Analysis (TIA) is required by the City of Spokane as a part of the traffic concurrency process for the proposed "Bush BSP" commercial development. The proposed development consists of seven (7) commercial lots on the 4.54 acres +/- site. Please see Figure 1 Vicinity Map and Figure 2 Preliminary Site Plan.

The purpose of this analysis is to review, assess, and identify potential traffic related impacts that the proposed project may have on the transportation network and where possible, minimize any impacts. This TIA will be completed in accordance with the current traffic guidelines from City of Spokane, WSDOT and the Institute of Transportation Engineers (A Recommended Practice – Traffic Access and Impact Studies for Site Development, 2010) as well as their respective requirements.

Site Location and Development Description

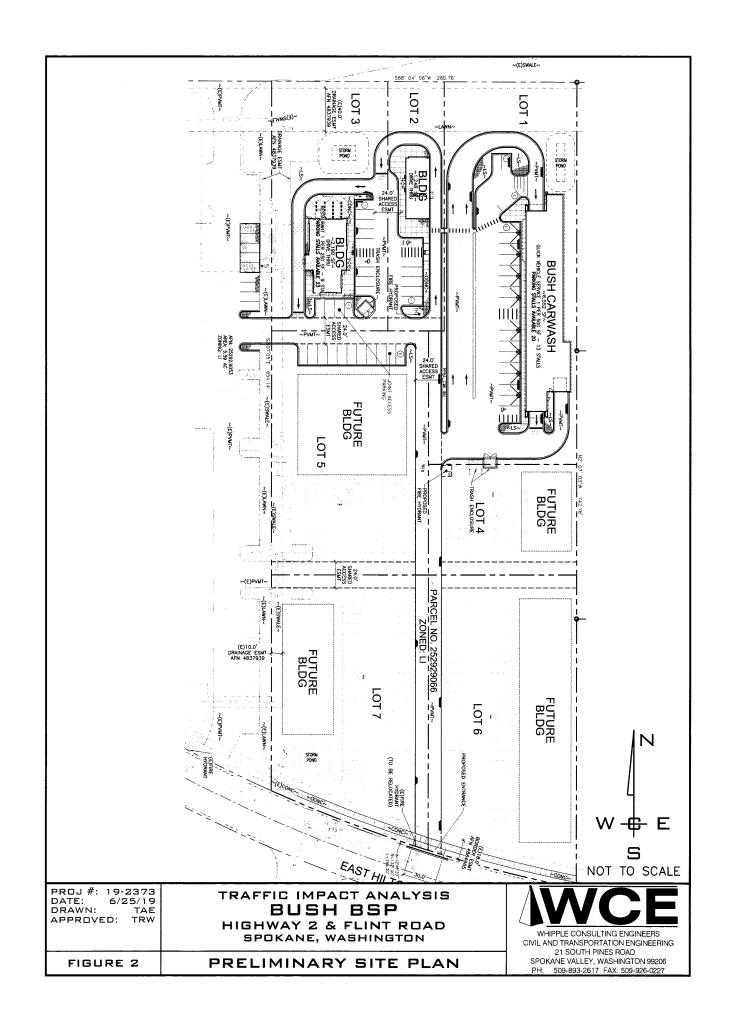
The project site is currently undeveloped with field grass and weeds. The project proposes the development of 4.54 acres +/- into seven (7) commercial lots. Lot 1 & Lot 2 are anticipated to be developed as a part of Phase 1. Lot 1 is proposed to be developed with an automated carwash facility and Lot 2 is proposed to be developed with a drive through coffee shop. Lot 3 through Lot 7 are anticipated to be developed during future phases of the project. Assumptions were made for the land uses for Lot 3 through Lot 7 in order to determine the trip generations for the future lots. See Table 1, Lot Land Use Code Summary for additional information on potential land uses for each lot.

Table 1 - Lot Land Use Code Summary

| Lot# | Potential Land Use | Potential Bldg Size (sf) | LUC |
|------|----------------------------------|--------------------------|-----|
| 1 | Car Wash | 6,552 | 948 |
| 2 | Coffee Shop w/ Drive | 1,248 | 937 |
| 3 | Fast Food Restaurant W/ dr. thru | 2,190 | 934 |
| 4 | High Turn-over Restaurant | 9,321 | |
| 5 | General Office | 3,335 | |
| 6 | Retail | 10,682 | 820 |
| 7 | General Office | 5,672 | |
| - | Total Shopping Center | 29,010 | |

The site is proposed to be accessed from the west by two (2) interconnecting driveways to the Hilton parking lot on the west side of the property and one (1) driveway to Hilton Avenue on the south side of the property. There is currently an existing access easement that allows the project to be accessed via the right—in and right-out Hilton access on Highway 2. The access easement allows the site to use the Hiltons driveway connection to Highway 2 as an access as well as the two driveways that are proposed to connect to the Hilton's parking lot along the west side of the project property. The project proposes drive aisles and parking lots that provide access to the entire project property. Please see Figure 2 Preliminary Site Plan.





EXISTING AND PROPOSED CONDITIONS

Existing and Proposed Conditions within the Study Area

Land Use & Zoning

The site is currently zoned in the City of Spokane as Light Industrial (LI). The subject property is located on a portion of the NW 1/4 of Section 29, T 25N R 42E W.M., within the City of Spokane, Washington. The parcel number for the subject property is 25292.9066. The surrounding areas are also zoned as Light Industrial.

Existing Roadways

The overall transportation network in this area consists of interstate highways, urban principle arterials, collectors, and local access roads. The project is proposed to be accessed via the Hilton's right-in right-out driveway on Highway 2 and an access driveway on Hilton Avenue. The proposed project trips are anticipated to use the following roadways:

<u>Highway 2</u> is an east/west State Highway. Highway 2 extends west from Interstate 90 through Airway Heights, Wenatchee and Monroe before terminating at an intersection with Interstate 5. Within the Study Area Highway 2 is a two-way 5-, 6- and 7-lane highway, with a Two-Way-Left-Turn-Lane (TWLTL). Within the study area Highway 2 serves commercial, retail, and industrial uses. The posted speed limit within the study area is 45 MPH.

<u>Flint Road</u> is a north/south two-way, 2-lane Collector Road in Spokane County and the City of Spokane that extends south from Trails Road as a gravel road to Highway 2 and continues south as a paved road to Airport Drive. Flint Road north of Highway 2 generally serves residential uses, and Flint Road south of SR2 serves a mixture of Light industrial and commercial land uses. The posted speed limit on Flint Road is 35 MPH.

<u>Technology Boulevard</u> is generally a two-way, 2-lane north/south local access road. Technology Boulevard extends south from Highway 2 through Hilton Avenue to Granite Avenue. Technology Boulevard serves commercial and industrial land uses. The posted speed limit on Technology Boulevard is 25 MPH.

<u>Hilton Avenue</u> is generally an east/west, two-way, 2-lane local access road. Hilton Avenue extends east from Flint Road to Technology Boulevard. Hilton Avenue primarily serves commercial land uses. The speed limit on Hilton Avenue is 25 MPH.

Study Area Intersections

The project study area intersections were identified through conversations with the City of Spokane and WSDOT. The study encompasses the AM and PM peak hour analysis of the following intersection:

- Highway 2 & Flint Road
- Highway 2 & Hilton Access
- Highway 2 & Technology Boulevard

Traffic Control and Descriptions

Highway 2 & Flint Road is a signalized intersection with the following lane configuration: the eastbound approach has two receiving lanes, a left turn lane, two through lanes and a right turn lane. The west bound approach has two receiving lanes, two left turn lanes, two through lanes and a right turn lane. The northbound approach has two receiving lanes, two left turn lanes, a through lane and a right turn lane. The southbound approach has a receiving lane, a left turn lane and a through-right lane.

Highway 2 & Hilton Access is an unsignalized stop-controlled "T"-type intersection with the following lane configuration: the eastbound approach has two receiving lanes two through lanes and a right turn lane. The westbound approach has two receiving lanes, a two-way-left-turn lane and two through lanes. The northbound approach has a receiving lane and a right turn lane.

Highway 2 & Technology Boulevard is an unsignalized stop-controlled "T"-type intersection with the following lane configuration: the eastbound approach has two receiving lanes, a two-way-left-turn lane, a through lane and a through-right lane. The westbound approach has two receiving lanes, a two-way-left-turn lane and two through lanes. The northbound approach has a receiving lane and a left-right lane.

Traffic Safety

For the intersections within the study area, accident report summaries were received from the WSDOT. Generally accidents are documented by type of occurrence, such as property damage or injury. No fatalities were reported for the study intersections during the last three years.

$$Rate\ per\ MEV = \frac{number\ of\ accidents\ in\ three\ years\ X\ 1\ million}{PM\ peak\ hour\ volume\ X\ 10\ X\ 365\ X\ 3\ years}$$

Equation 4-2 of ITE manual of traffic engineering studies (fourth edition) (modified given the available data, for 3 years and utilizes PM peak hour volumes $\sim 10\%$ of ADT)

In this analysis, accidents are measured based on frequency per million entering vehicles (MEV). This ratio is a function of the average daily traffic entering the intersection and the annual frequency of accidents. This method of analysis is also considered as an "exposure" analysis. This method of analysis is used to identify areas that need further review. A typical review threshold for accidents at an intersection is 1.00 accidents per MEV. The accident data for the intersections within the study area is shown in Table 2.

The accident data for this project is currently pending receival of the accident data and will therefore be provided when the accident data has been received.

Table 2 - Accident Data for Intersections within the Study Area

| ACCIDENT DATA | | | | | | | | |
|----------------------------------|-----|-----|------|-----|------|-----|-----|--|
| Intersection | 201 | 6 | 2017 | | 2018 | | Per | |
| Intersection | PDO | INJ | PDO | INJ | PDO | INJ | MEV | |
| Highway 2 & Flint Road | | | | | | | | |
| Highway 2 & Hilton Access | | | | | | | | |
| Highway 2 & Technology Boulevard | | | | | | | | |

PDO = Property Damage Only,

INJ = Injury,

As shown in the Table 1, the accident analysis is pending.

Traffic Volumes and Peak Hours of Operation

Traffic counts were collected in May 2019 under the direction of Whipple Consulting Engineers, at the following intersections:

- Highway 2 & Flint Road (AM & PM)
- Highway 2 & Hilton Access (AM & PM)
- Highway 2 & Technology Boulevard (AM & PM)

The AM and PM peak hours from these counts are shown on Figure 3 and Figure 4. The raw data for these counts are located in the technical appendix.

LEVEL OF SERVICE

Level of Service (LOS) is an empirical premise developed by the transportation profession to quantify driver perception for such elements as travel time, number of stops, total amount of stopped delay, and impediments caused by other vehicles afforded to drivers who utilize the transportation network. It has been defined by the Transportation Research Board in the 2010 Highway Capacity Manual. This document has quantified level of service into a range from "A" which indicates little, if any, vehicle delay, to "F" which indicates significant vehicle delay and traffic congestion that may lead to system breakdown due to volumes that may exceed capacity.

Signalized Intersections

For signalized intersections, research has determined that average stopped delay per vehicle is the best available measure of Level of Service. The following tables identify the relationships between level of service and average stopped delay per vehicle. The City of Spokane and WSDOT has adopted <u>level of service D as the minimum acceptable level for all signalized</u> intersections.

Level of Service Criteria and Descriptions - Signalized

| | | Level of Service Criteria and Descriptions - Signanzed |
|-----|----------------------|--|
| LOS | Delay Range (sec) | General Description |
| A | 10 | Very low delay at intersection. All signal cycles clear. No vehicles wait through more than one signal cycle. |
| В | 10 to 20 | Operating speeds beginning to be affected by other traffic. Short traffic delays at intersections. Higher average intersections delays resulting from more vehicles stopping. |
| С | 20 to 35 | Operating speeds and maneuverability closely controlled by other traffic. Higher delays at intersections than for LOS B due to a significant number of vehicles stopping. Not all signal cycles clear the waiting vehicles. |
| D | 35 to 55 | Tolerable operating speeds, but long traffic delays occur at intersections The influence of congestion is noticeable. Many vehicles stop and the proportion of vehicles not stopping declines. The number of signal cycle failures, for which vehicles must wait through more than one signal cycle are noticeable. |
| E | 55 to 80 | Speeds are restricted, very long traffic delays are experienced and traffic volumes are near capacity. Traffic flow is unstable, any interruption, no matter how minor, will cause queues to form and service to deteriorate. Traffic signal cycle failures are frequent occurrences. |
| F | 80 | Extreme delays resulting in long queues which may interfere with other traffic movements Stoppages of long duration and speeds may drop to zero. Vehicle arrival rates are greater than capacity. Considered unacceptable by most drivers. |

Unsignalized Intersections

The calculation of Level of Service (LOS) at an unsignalized one/two-way stop-controlled intersection is examined in the Transportation Research Board's 2010 Highway Capacity Manual. For unsignalized intersections, Level of Service is based on the delay experienced by each movement and approach within the intersection. The concept of delay as presented for unsignalized intersections in the Highway Capacity Manual is based on the amount of time a vehicle must spend at the intersection. Vehicles passing straight through the intersection on the major (uncontrolled) street experience no delay at the intersection. On the other hand, vehicles which are turning left from the minor street, because they must yield the right of way to all right turning vehicles, all left turning vehicles from the major street and all through vehicles on both the minor and major streets, must spend more time at the intersection. Levels of Service are assigned to individual movements within the intersection, and are based upon the delay experienced by each movement or approach.

The Transportation Research Board has determined what Levels of Service for unsignalized intersections should be, by designating Level of Service A through F, where Level of Service A represents a facility where no vehicle in any movement is delayed very long and Level of Service F which represents a facility where there is excessive delay for the average vehicle in at least one movement in the intersection. The City of Spokane and WSDOT has adopted Level of Service E for all unsignalized intersections within the study area.

Level of Service Criteria and Descriptions - Unsignalized

| P | Level of Service Criteria and Descriptions - Unsignanzed | | | | | | | | | |
|-----|--|---|--|--|--|--|--|--|--|--|
| LOS | Delay Range (sec) | Expected Delay to Minor Street Traffic | General Description | | | | | | | |
| A | 10 | Little to No Delay | Nearly all drivers find freedom of operation. Very seldom is there more than one vehicle in the queue. | | | | | | | |
| В | 10 to 15 | Short Traffic Delays | Some drivers begin to consider the delay an inconvenience Occasionally there is more than one vehicle in the queue. | | | | | | | |
| С | 15 to 25 | Average Traffic Delays | Many times there is more than one vehicle in the queue. Most drivers feel restricted, but not objectionably so. | | | | | | | |
| D | 25 to 35 | Long Traffic Delays | Often there is more than one vehicle in the queue.Drivers feel quite restricted. | | | | | | | |
| Е | 35 to 50 | Very Long Traffic Delays | Represents conditions in which, demand is near or equal capacity. There is almost always more than one vehicle in the queue. Drivers find the delays approaching intolerable levels. | | | | | | | |
| F | 50 | Stop-and-Go Condition Delays Generally Longer than Acceptable | Forced flow. Represents an intersection failure condition that is caused by geometric and/or operational constraints external to the intersection | | | | | | | |

All Level of Service analyses described in this report were performed in accordance with the procedures described above. As a final note, the Highway Capacity Manual (HCM) analysis and procedures are <u>based upon worst case conditions</u>. Therefore, most of each weekday and the weekends will experience traffic conditions <u>better than those described within this document</u>, which are only for the peak hours of operation

LEVEL OF SERVICE AND TRAFFIC ANALYSIS

Existing Level of Service and Traffic Analysis

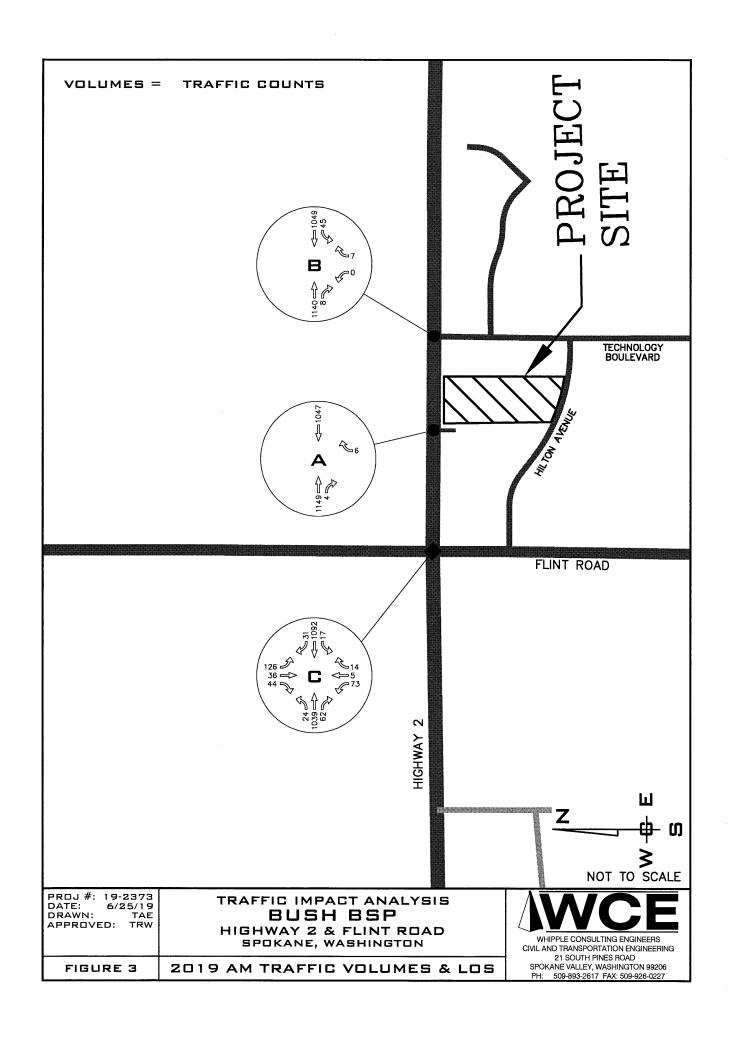
The existing Levels of Service at the scoped intersections were calculated using the methods from the 2010 Highway Capacity Manual as implemented in Synchro, version 9 - Build 915. The existing Levels of Service for the intersections within the study area are summarized on the following tables. The existing traffic volumes used for this report are shown on Figure 3 and Figure 4.

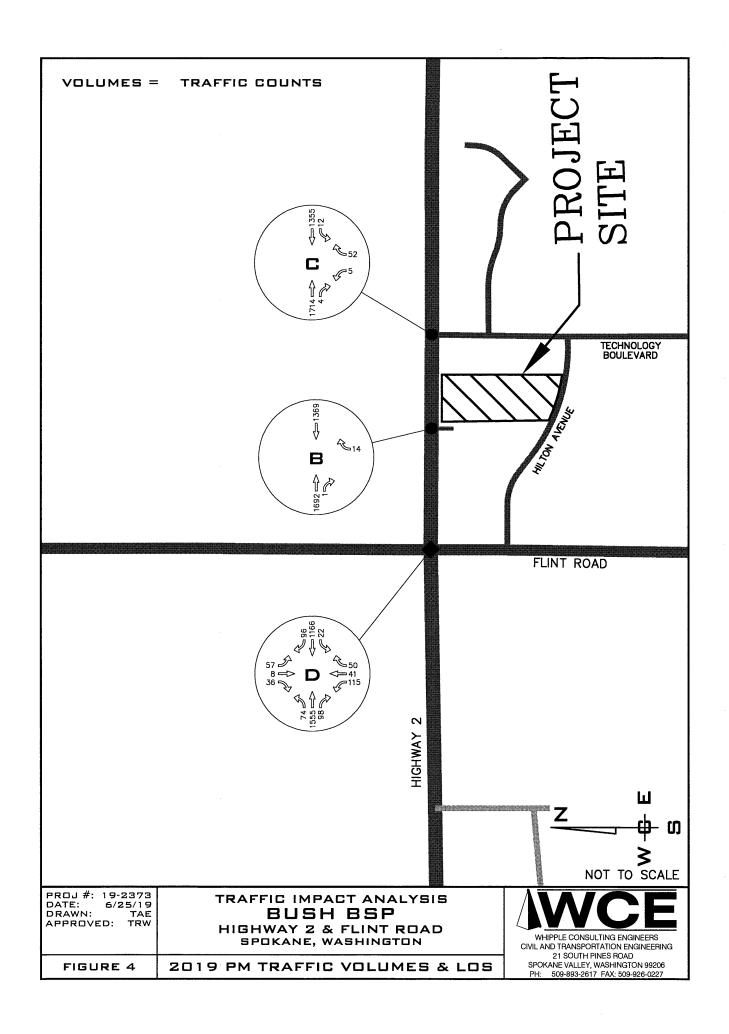
Table 3 - Existing Intersections Levels of Service

| INTERSECTION | | AM Pea | ık Hour | PM Peak Hour | | |
|----------------------------------|--------------------------------|--------|---------|----------------|-----|--|
| | (S)ignalized (U)nsignalized | | LOS | Delay (sec) | LOS | |
| Highway 2 & Flint Road | S | 27.8 | С | 44.4 | D | |
| Highway 2 & Hilton Access | U | 10.0 | Α | 10.9 | В | |
| Highway 2 & Technology Boulevard | U | 13.5 | В | 24.8 | С | |

The City of Spokane and the WSDOT have adopted level of service D as the minimum acceptable level for signalized intersections and level of service E as the minimum acceptable level for unsignalized intersections.

As shown in Table 3, all intersections are currently operating at an acceptable level of service.





BACKGROUND TRAFFIC GROWTH & BACKGROUND PROJECTS

Background Traffic Growth

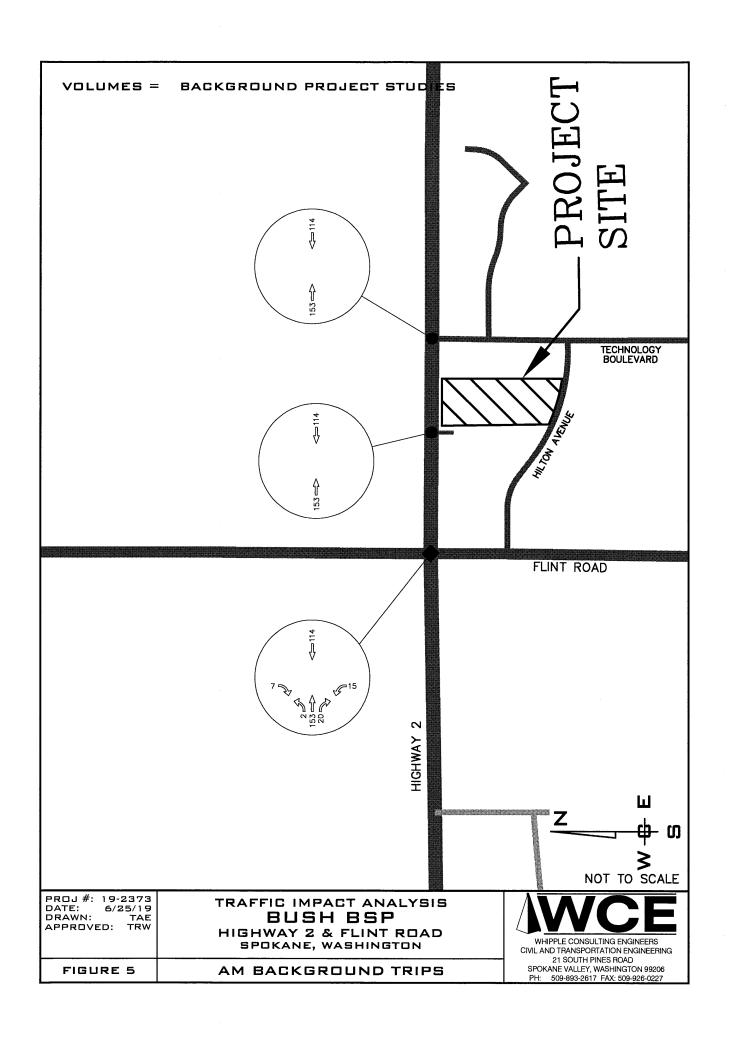
Background traffic growth is an anticipated increase in traffic volume from year to year. As the existing land uses that surround a transportation facility mature, an increase in traffic results and may be due to either an increase in drivers per household or a household's purchase of an additional vehicle. Many things can cause an increase in the traffic volumes of a facility. The objective of the background traffic growth rate is to anticipate what the traffic volumes may be in the future. The background traffic growth rate for an area or street is determined by means of physical counts collected by local governmental agencies. The counts are compared on a yearly basis and a rate of increase is calculated from the data.

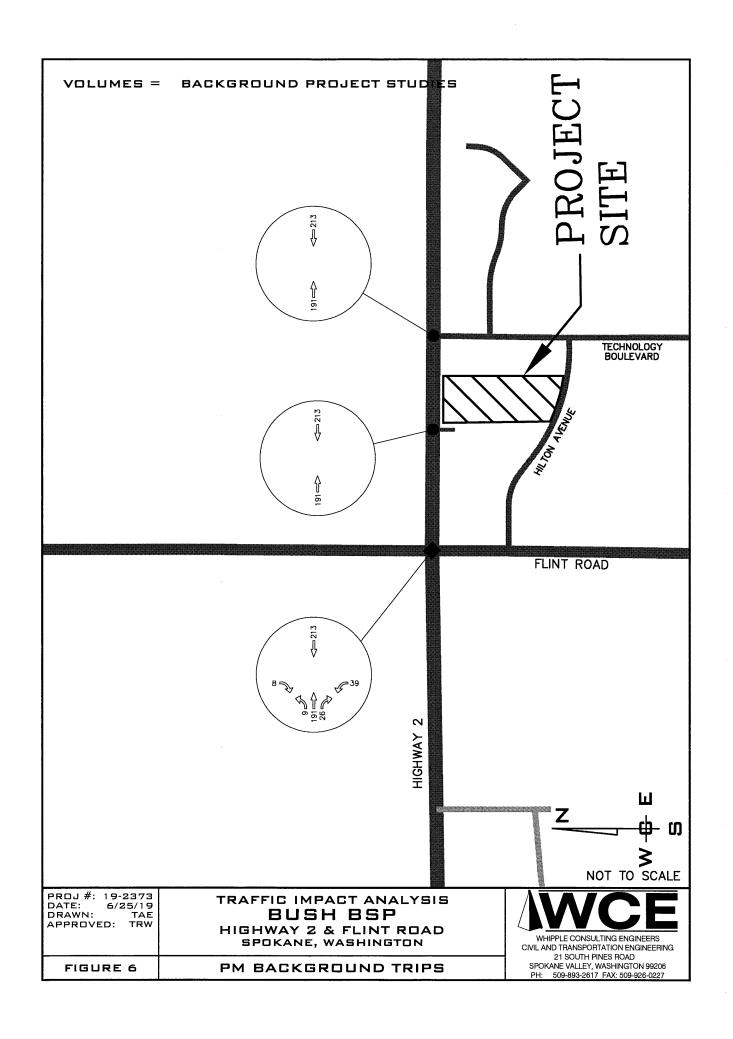
The background growth rate was determined to be 1.0% per year. Based on a six-year build out, compounded annually, the total increase in traffic rate for the year 2025 is anticipated to be 1.062.

Background Project Traffic

In addition to the natural increase in background growth, background projects that have already been approved or have made application and have been vested before this project have been included. The background project traffic volumes used for this report are shown on Figure 5 and Figure 6.

- Hunters Crossing
- Hayden Homes
- Project Rose
- North 40 Phase 1
- Sekani at Crosspointe
- Casino Phase 1A





TRIP GENERATION AND DISTRIBUTION

As noted earlier, trip generation rates for the AM and PM peak hours are determined by the use of the *Trip Generation Manual*, 10th Edition published by the Institute of Transportation Engineers (ITE). The purpose of the *Trip Generation Manual* is to compile and quantify empirical data into trip generation rates for specific land uses within the US, UK and Canada.

The proposed project is a seven (7) lot commercial development. For the proposed development on Lot 1, Land Use Code (LUC) # 948 Automated Car Wash was used to establish the number of potential trips generated by the land use on Lot 1. For the proposed development on Lot 2, Land Use Code (LUC) # 937 Coffee/Donut Shop with Drive-Through Window was used to establish the number of potential trips generated by the land use on Lot 2. For the proposed development on Lot 3, Land Use Code (LUC) # 934 Fast-Food Restaurant with Drive-Through Window was used to establish the number of potential trips generated by the land use on Lot 3. For the proposed developments on Lots 4 through 7, Land Use Code (LUC) # 820 Shopping Center was used to establish the number of potential trips generated by the land uses on Lots 4 through 7. A summary of the potential land uses Land Use Codes used for each lot can be seen in Table 3.

Table 1 – Lot Land Use Code Summary (Copy)

| Lot# | Potential Land Use | Potential Bldg Size (sf) | LUC |
|------|----------------------------------|--------------------------|-----|
| 1 | Car Wash | 6,552 | 948 |
| 2 | Coffee Shop w/ Drive | 1,248 | 937 |
| 3 | Fast Food Restaurant W/ dr. thru | 2,190 | 934 |
| 4 | High Turn-over Restaurant | 9,321 | |
| 5 | General Office | 3,335 | |
| 6 | Retail | 10,682 | 820 |
| 7 | General Office | 5,672 | |
| - | Total Shopping Center | 29,010 | |

The complete trip generation for the project is included in the appendix with a copy of the table summaries provided as Table 4 for reference.

Table 4-Trip Generation Summary (Total)

| Land Use Code (LUC) | | Peak F Trips | lour | PM Peak Hour Trips | | | |
|---|------|-----------------|-------------------------|--------------------|---------------------------------|-----|--|
| | | | tional bution Out | Vol. / LUC | Directional Distribution In Out | | |
| LUC #948 Automated Car Wash | 23 | 12 | 11 | 91 | 46 | 45 | |
| LUC #937 Coffee/Donut w/ Drive-Thru | 111 | 57 | 54 | 54 | 27 | 27 | |
| LUC #934 Fast Food Restaurant w/ DrThru | 153 | 78 | 75 | 125 | 65 | 60 | |
| LUC #820 Shopping Center | 28 | 17 | 11 | 111 | 53 | 58 | |
| Total | 315 | 164 | 151 | 381 | 191 | 190 | |
| Average Daily Trip Ends (| ADT) | | | | | | |
| Land Use Code (LUC) | Rate | A | DT | | | | |
| LUC #948 Automated Car Wash | - | 9 | 009 | | | | |
| LUC #937 Coffee/Donut w/ Drive-Thru | _ | 1, | 018 | | | | |
| LUC #934 Fast Food Restaurant w/ DrThru | - | 1,790 | | | | | |
| LUC #820 Shopping Center | - | 1 | 473 | | | | |
| Total | - | 5, | 190 | | | | |

As shown in Table 4, the proposed commercial development is anticipated to generate 315 trips in the AM peak hour with 164 trips entering the site and 151 trips exiting the site. In the PM peak hour, the proposed development is anticipated to generate 381 trips with 191 trips entering the site and 190 trips exiting the site. The proposed development is anticipated to generate 5,190 average daily trips to/from the project site. These trips are further broken down as pass-by and new trips.

Internal trips were taken into consideration for this project. A summary of the internal trips can be seen in Table 5. The internal trip calculations can be found in the appendix.

Table 5-Internal Trip Generation Summary

| Land Use Code | AM | Peak F Trips | Iour | PM Peak Hour Trips | | | |
|---|--|-----------------|---------------|--------------------|-------------------------|----|--|
| (LUC) | Vol. / Directional Distribution In Out | | Vol. / LUC | | tional bution Out | | |
| LUC #948 Automated Car Wash | 1 | 0 | 1 | 12 | 7 | 5 | |
| LUC #937 Coffee/Donut w/ Drive-Thru | 6 | 2 | 4 | 7 | 4 | 3 | |
| LUC #934 Fast Food Restaurant w/ DrThru | 8 | 4 | 4 | 16 | 10 | 6 | |
| LUC #820 Shopping Center | 10 | 6 | 4 | 35 | 14 | 21 | |
| LUC #310 Hotel | 15 | 8 | 7 | 24 | 12 | 12 | |
| Total | 40 | 20 | 20 | 94 | 47 | 47 | |

As shown in Table 5, the proposed commercial development is anticipated to generate 25 internal trips in the AM peak hour with 12 internal trips entering the site and 13 internal trips exiting the site. In the PM peak hour, the proposed development is anticipated to generate 70 internal trips with 35 internal trips entering the site and 35 internal trips exiting the site.

A summary of the remaining external trips can be seen in Table 6.

Table 6-External Trip Generation Summary

| | AM | Peak F Trips | Iour | PM Peak Hour Trips | | | |
|---|-----|-----------------|------------------|--------------------|--------|------------------|--|
| Land Use Code (LUC) | | Distri | tional bution | Vol. / LUC | Distri | tional bution | |
| | | In | Out | | In | Out | |
| LUC #948 Automated Car Wash | 22 | 12 | 10 | 79 | 39 | 40 | |
| LUC #937 Coffee/Donut w/ Drive-Thru | 105 | 55 | 50 | 47 | 23 | 24 | |
| LUC #934 Fast Food Restaurant w/ DrThru | 145 | 74 | 71 | 109 | 55 | 54 | |
| LUC #820 Shopping Center | 18 | 11 | 7 | 76 | 39 | 37 | |
| Total | 290 | 152 | 138 | 311 | 156 | 155 | |

As shown in Table 6, the proposed commercial development is anticipated to generate 290 external trips in the AM peak hour with 152 external trips entering the site and 138 external trips exiting the site. In the PM peak hour, the proposed development is anticipated to generate 311 external trips with 156 external trips entering the site and 155 external trips exiting the site.

Pass-by trips from the external trips into considered for this project. A summary of the pass-by trips can be seen in Table 7.

Table 7-Pass-by Trip Generation Summary

| Land Use Code | AM | Peak F Trips | lour | PM Peak Hour Trips | | | |
|---|-----|-----------------|-------------------------|--------------------|----|-------------------------|--|
| Land Use Code (LUC) | | | tional bution Out | Vol. / LUC | | tional bution Out | |
| LUC #948 Automated Car Wash | 11 | 6 | 5 | 39 | 19 | 20 | |
| LUC #937 Coffee/Donut w/ Drive-Thru | 52 | 27 | 25 | 23 | 11 | 12 | |
| LUC #934 Fast Food Restaurant w/ DrThru | 71 | 36 | 35 | 54 | 27 | 27 | |
| LUC #820 Shopping Center | 9 | 5 | 4 | 26 | 12 | 14 | |
| Total | 143 | 74 | 69 | 142 | 69 | 73 | |

As shown in Table 7, the proposed commercial development is anticipated to generate 143 pass-by trips in the AM peak hour with 74 pass-by trips entering the site and 69 pass-by trips exiting the site. In the PM peak hour, the proposed development is anticipated to generate 142 pass-by trips with 69 pass-by trips entering the site and 73 pass-by trips exiting the site.

The remainder of the external trips are considered new trips to/from the project site. A summary of the new trips can be seen in Table 8.

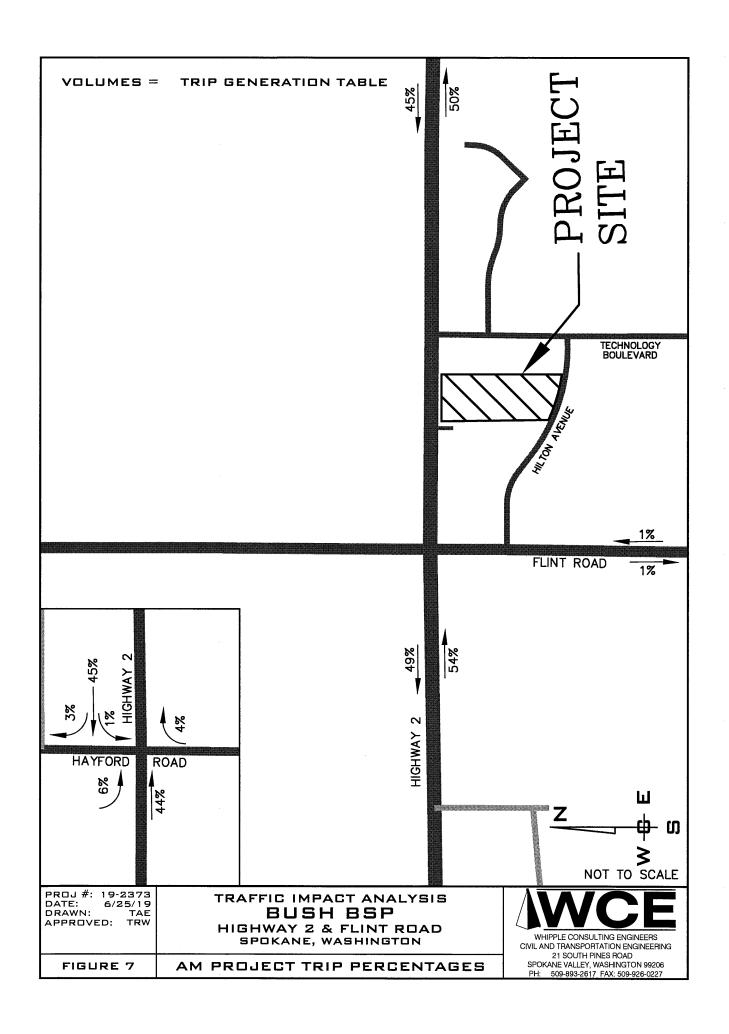
Table 8-New Trip Generation Summary

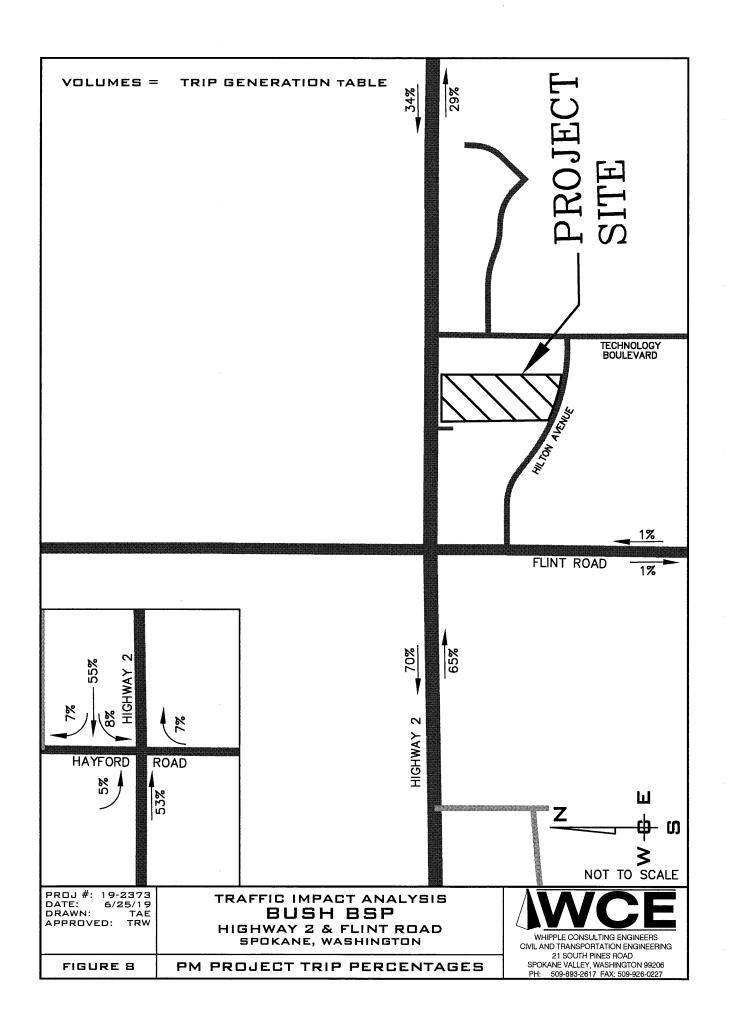
| Land Use Code (LUC) | AM Peak Hour Trips | | | PM Peak Hour Trips | | |
|---|-----------------------|----|-------------------------|--------------------|----|-------------------------|
| | Vol. / LUC | | tional bution Out | Vol. / LUC | | tional bution Out |
| LUC #948 Automated Car Wash | 11 | 6 | 5 | 40 | 20 | 20 |
| LUC #937 Coffee/Donut w/ Drive-Thru | 53 | 28 | 25 | 24 | 12 | 12 |
| LUC #934 Fast Food Restaurant w/ DrThru | 74 | 38 | 36 | 55 | 28 | 27 |
| LUC #820 Shopping Center | 9 | 6 | 3 | 50 | 27 | 23 |
| Total | 147 | 78 | 69 | 169 | 87 | 82 |

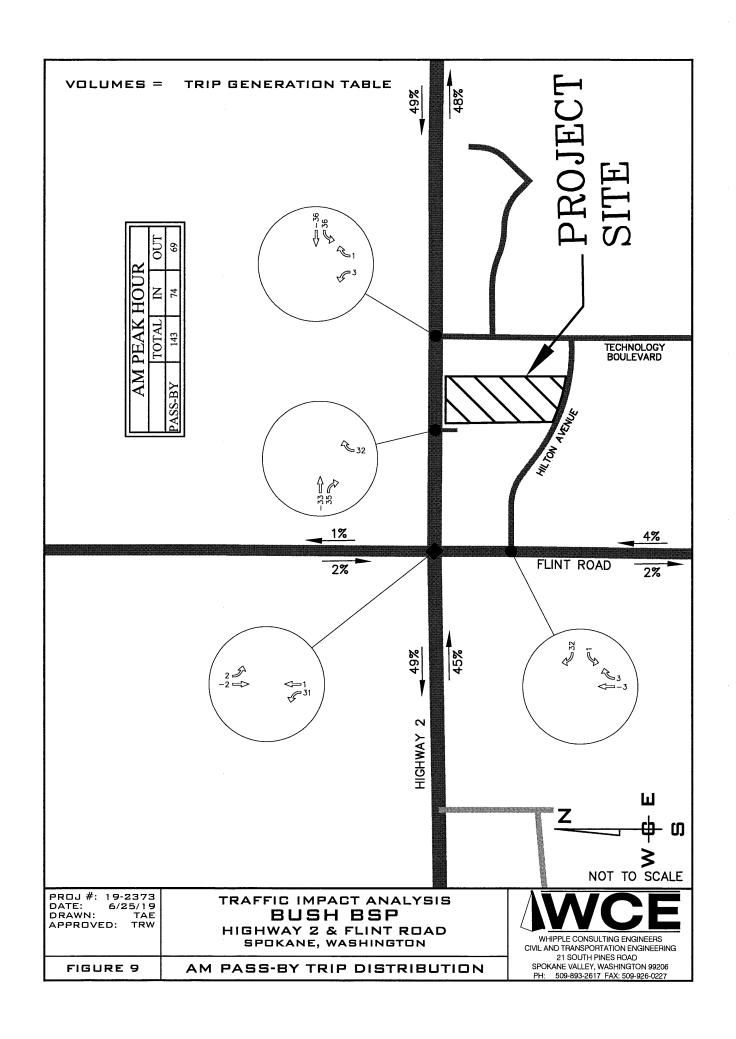
As shown in Table 8, the proposed commercial development is anticipated to generate 147 new trips in the AM peak hour with 78 new trips entering the site and 69 new trips exiting the site. In the PM peak hour, the proposed development is anticipated to generate 169 new trips with 87 new trips entering the site and 82 new trips exiting the site.

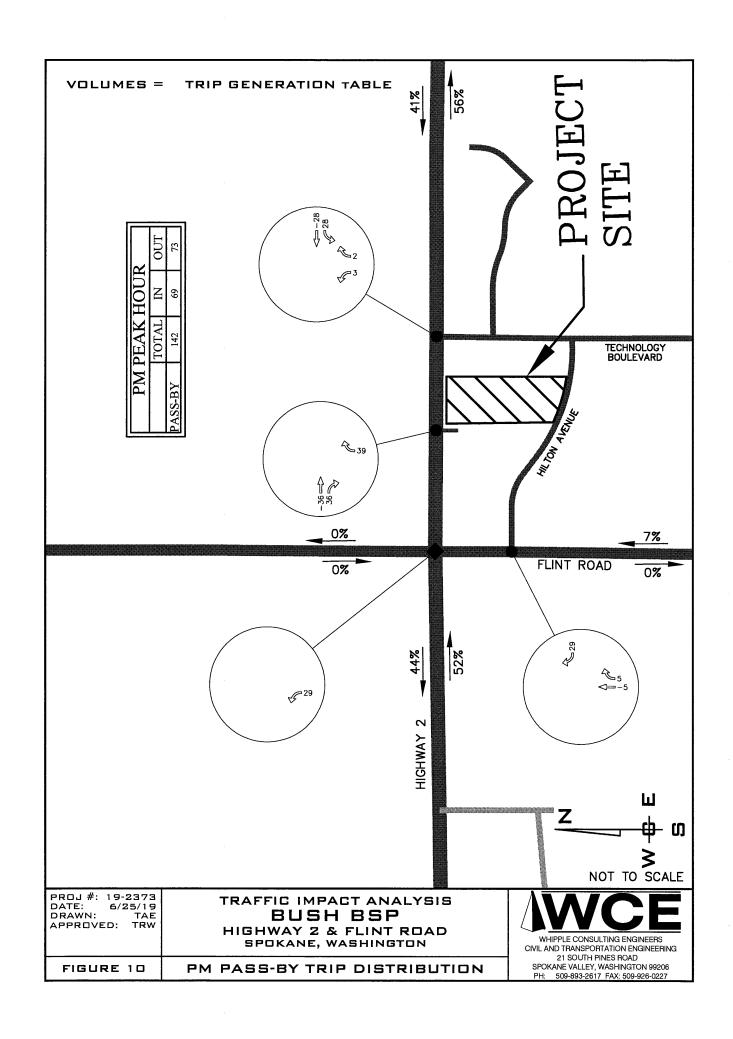
Trip Distribution Characteristics of the Proposed Project

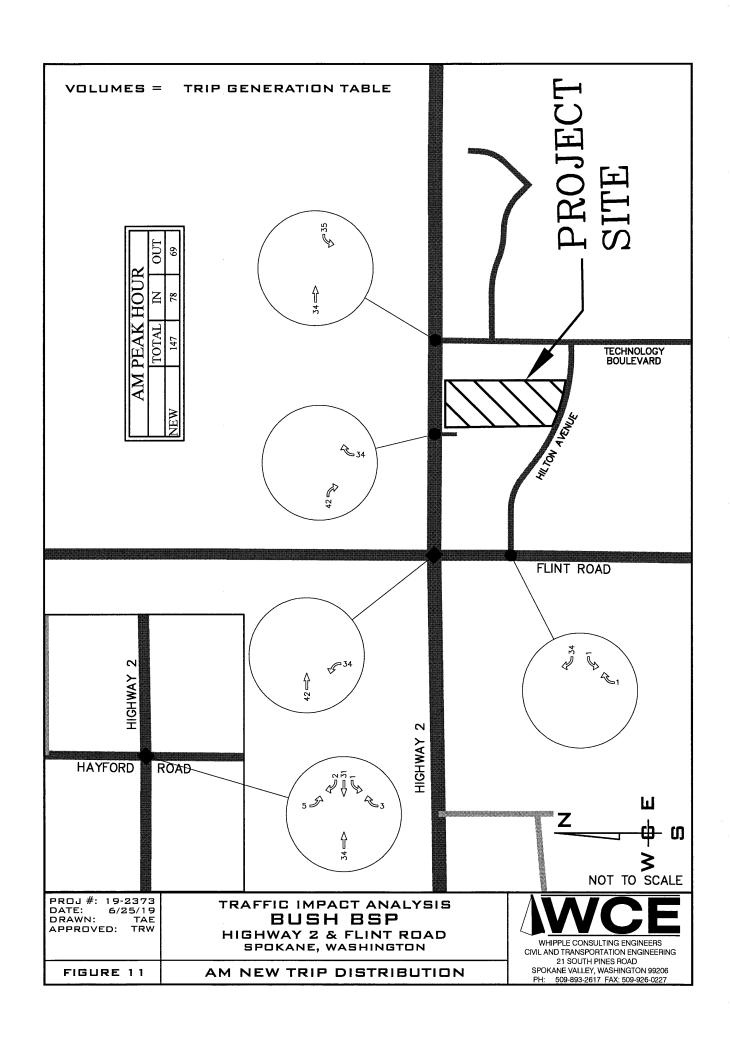
Considering street light data from the WSDOT, traffic for the proposed development is anticipated as follows: 54% of the AM entering trips are anticipated to come from the west via Highway 2, 45% of the AM entering trips are anticipated to come from the east via Highway 2 and 1% of the AM entering trips are anticipated to come from the south via Flint Road. It is anticipated that 49% of the AM exiting trips will go to the west via Highway 2, 50% of the AM exiting trips are anticipated to go to the east via Highway 2 and 1% of the AM exiting trips are anticipated to go to the south via Flint Road. It is anticipated that 65% of the PM entering trips will come from the west via Highway 2, 34% of the PM entering trips are anticipated to come from the east via Highway 2 and 1% of the PM entering trips are anticipated to come from the south via Flint Road. It is anticipated that 70% of the PM exiting trips will go to the west via Highway 2, 29% of the PM exiting trips are anticipated to go to the east via Highway 2 and 1% of the PM exiting trips are anticipated to go to the south via Flint Road. Please see Figures 7 & 8 to see a graphical representation of these distribution.

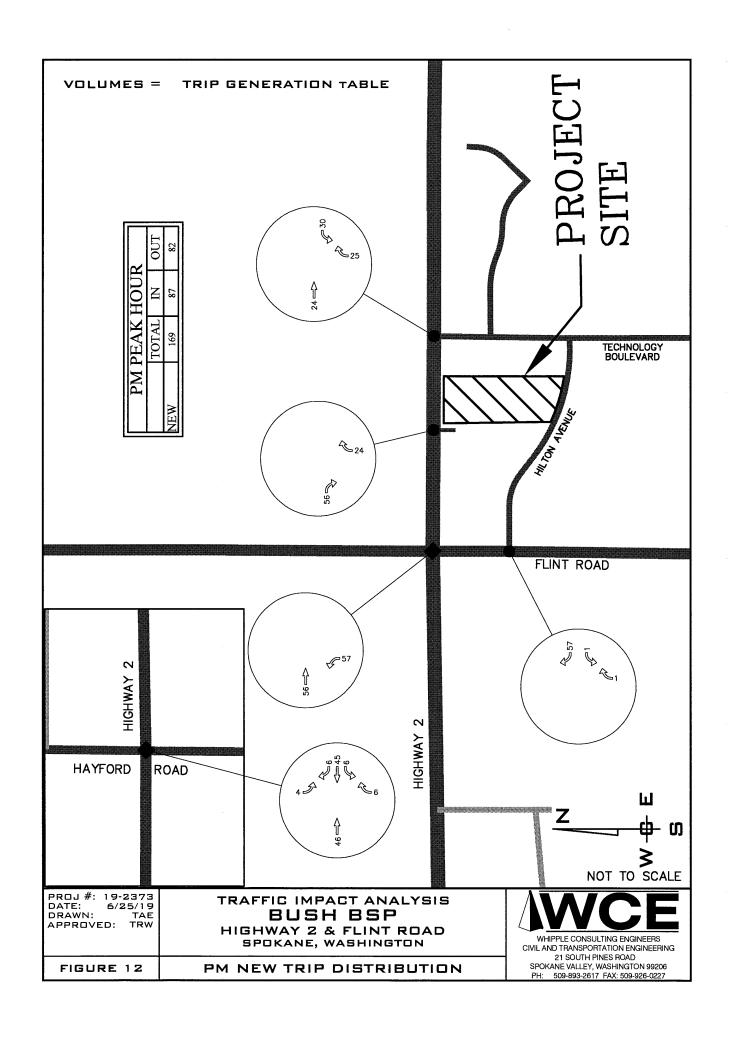












FUTURE YEAR TRAFFIC IMPACT ANALYSIS

Future Year Traffic Impact Analysis

Level of Service calculations for the Year 2025 conditions assumed that the existing traffic volumes as shown on Figures 3 and 4 experience an increase above the existing volumes at the established background rate. Two scenarios were examined for the year 2025 analysis. The first scenario assumes that the development has not moved forward and analyzes the scoped intersections with the background growth rate. The second scenario assumes the same, but adds the project trips. These scenarios will allow a determination to be made as to what the future conditions may be both with and without the project.

Year 2025 without the Project, with the Background Projects

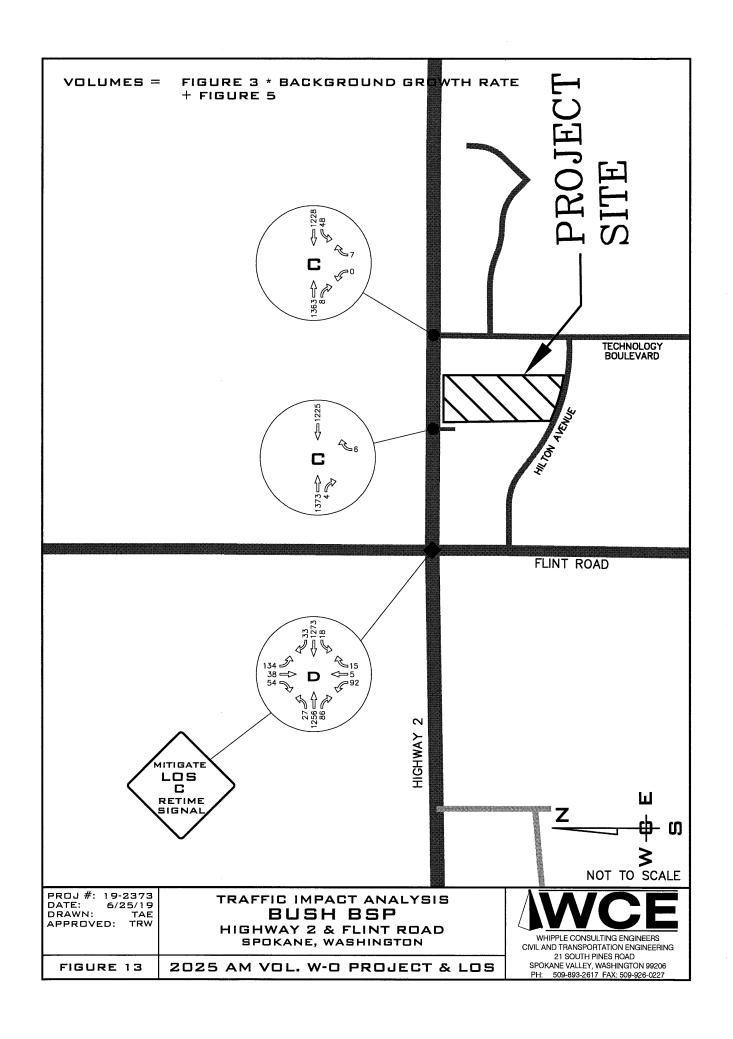
This scenario assumes that the development has not moved forward. The traffic volumes for this condition include the existing traffic, as shown on Figures 3 and 4, multiplied by the background growth rate plus the background project volumes on Figures 5 and 6. Please see Figures 13 and 14 for the traffic volumes used for this scenario. A summary of the Level of Service results is shown in the following table. This scenario allows for a future baseline to be developed sans the project trips.

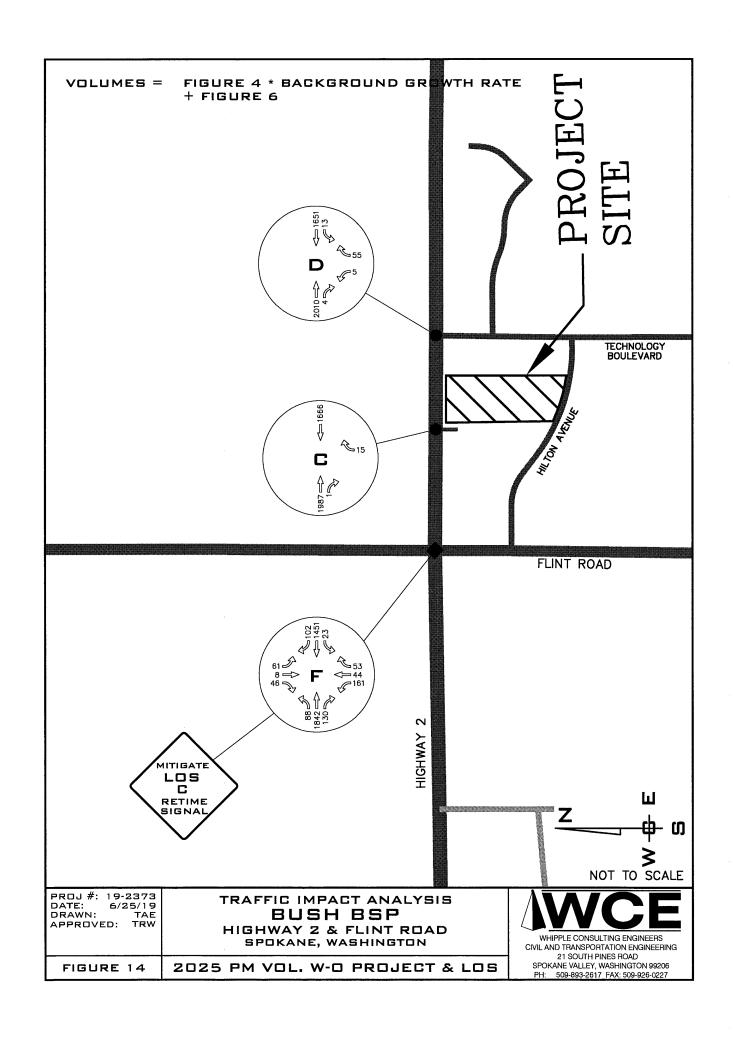
Table 9- Year 2025 Levels of Service, without the Project, with the Background Projects

| INTERSECTION | | AM Po | ak Hour | PM Peak Hour | |
|--|--------------------------------|--------|---------|----------------|-----|
| | (S)ignalized (U)nsignalized | | LOS | Delay (sec) | LOS |
| Highway 2 & Flint Road | C | 36.2 | D | 112.6 | F |
| With Signal Retiming | 3 | (26.4) | (C) | (29.8) | (C) |
| Highway 2 & Hilton Access | U | 16.3 | С | 21.0 | С |
| Highway 2 & Technology Boulevard | U | 15.2 | С | 34.1 | D |

The City of Spokane has adopted level of service D as the minimum acceptable level for signalized intersections and level of service E as the minimum acceptable level for unsignalized intersections.

As shown in Table 9, the intersection of Highway 2 & Flint Road is anticipated to drop below an acceptable Level of Service in the PM peak hour. However, the Level of Service can be brought back to an acceptable Level of Service with a retiming of the signal at the intersection of Highway 2 & Flint Road. The assumption was made that the signal retiming improvement will carry throughout all other scenarios. All other intersections are anticipated to operate at an acceptable level of service.





Year 2025 with the Project, with the Background Projects

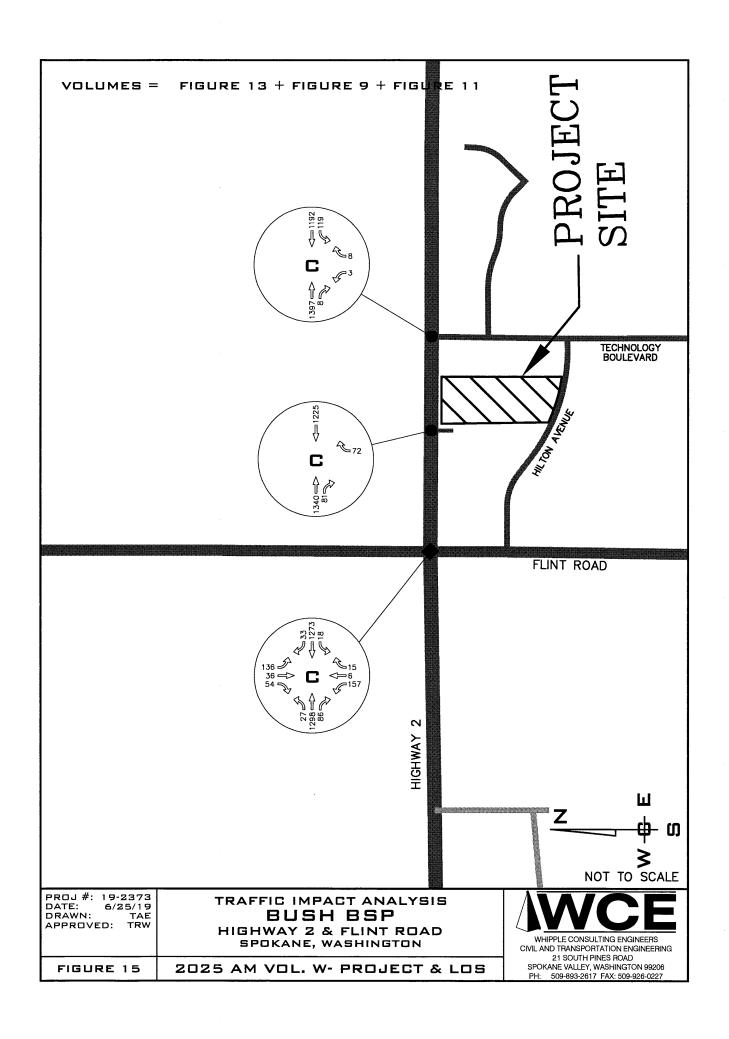
This scenario assumes that the development has moved forward and is added to the previously established baseline. The traffic volume for this condition includes the traffic volumes shown on Figures 13 and 14 and adds the project pass-by trips as shown on Figures 9 and 10 as well as the project new trips as shown on Figures 11 and 12. Please see Figures 15 and 16 for the traffic volumes used for this scenario. A summary of the Level of Service results is shown in the following table.

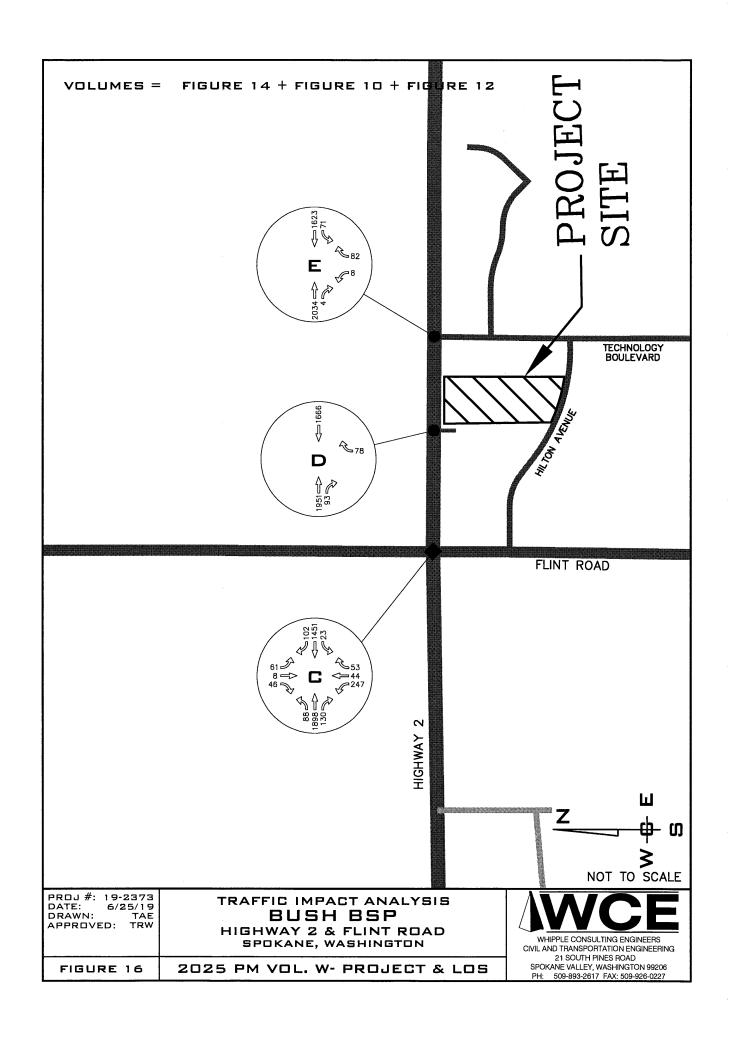
Table 10- Year 2025 Levels of Service, with the Project, with the Background Projects

| INTERSECTION | | AM P | eak Hour | PM Pea | k Hour | |
|----------------------------------|---|----------------|----------|----------------|--------|--|
| (S)ign (U)nsign | | Delay (sec) | LOS | Delay (sec) | LOS | |
| Highway 2 & Flint Road | S | 27.0 | С | 34.2 | С | |
| Highway 2 & Hilton Access | U | 19.1 | С | 26.4 | D | |
| Highway 2 & Technology Boulevard | U | 23.2 | С | 47.1 | Е | |

The City of Spokane has adopted level of service D as the minimum acceptable level for signalized intersections and level of service E as the minimum acceptable level for unsignalized intersections.

As shown in Table 10, with the proposed project all intersections are anticipated to operate at an acceptable level of service.





CONCLUSIONS & RECOMMENDATIONS

Conclusions

This Traffic Impact Analysis (TIA) has reviewed and analyzed the study area per the scope established by the City of Spokane and WSDOT. The Level of Service analysis for the existing scenario found that the intersection of Highway 2 and Flint Road is anticipated to drop below an acceptable Level of Service during the PM peak hour for the 2025 without project scenario. However, the Level of Service can be brought back to an acceptable Level of Service for all scenarios by retiming of the signal. All other intersections are anticipated to operate at an acceptable level of service

Based upon the analysis, field observations, assumptions, methodologies and results which are provided in the body of this report, it is concluded that the development of the proposed project will generate new trips on the existing transportation system and that those trips will degrade LOS below concurrency levels at the intersection of Highway 2 and Flint Road in both the 2025 without project scenario and the 2025 with project scenario. However, the Level of Service can be brought back to an acceptable level of service with the retiming of the signal at the intersection of Highway 2 and Flint Road. This conclusion was reached and has been documented within the body of this report.

- Under the **existing** conditions there are no intersection Level of Service deficiencies identified.
- For the year 2025 with background without project scenario, the Level of Service for
 the intersection of Highway 2 and Flint Road is anticipated to drop below an acceptable
 Level of Service. However, the Level of Service can be brought back to an acceptable
 Level of Service with the retiming of the signal. There were no other intersection Level
 of Service deficiencies identified.
- For the **year 2025 with background with project** scenario, with the signal retiming, there are no intersection Level of Service deficiencies identified.

Recommendations

Based upon the conclusions within this study and the assumption that as a part of routine maintenance that the City of Spokane can retime the signal at the intersection of Highway 2 and Flint Road, the proposed project is recommended to complete all required conditions of approval including frontage improvements, participate as required in the City of Spokane's traffic impact fee at the time of building permit and should be allowed to move forward without further traffic analysis.

TECHNICAL APPENDIX

METHODS AND CRITERIA

Unsignalized Intersection Level of Service Criteria

| Level of Service | Delay Range (sec) | Expected Delay to Minor Street Traffic |
|------------------|-------------------|---|
| Α | ≤ 10 | Little to No Delay |
| В | > 10 and ≤ 15 | Short Traffic Delays |
| С | >15 and ≤ 25 | Average Traffic Delays |
| D | >25 and ≤ 35 | Long Traffic Delays |
| E | > 35 and ≤ 50 | Very Long Traffic Delays |
| F | > 50 | Stop-and-Go Condition Delays Generally Longer than Acceptable |

Unsignalized Intersections Level of Service Descriptions

| LOS | General Description |
|-----|--|
| Α | Nearly all drivers find freedom of operation. Very seldom is there more than one vehicle in the queue. |
| В | Some drivers begin to consider the delay an inconvenience Occasionally there is more than one vehicle in the queue. |
| С | Many times there is more than one vehicle in the queue. Most drivers feel restricted, but not objectionably so. |
| D | Often there is more than one vehicle in the queue. Drivers feel quite restricted. |
| E | Represents conditions in which the demand is near or equal to the probable maximum number of vehicles that can be accommodated by the movement. There is almost always more than one vehicle in the queue. Drivers find the delays approaching intolerable levels. |
| F | Forced flow. Represents an intersection failure condition that is caused by geometric and/or operational constraints external to the intersection |

Signalized Intersection Level of Service Criteria

| Level of Service | Delay Range (sec) |
|------------------|-------------------|
| Α | ≤ 10 |
| В | > 10 and ≤ 20 |
| С | >20 and ≤ 35 |
| D | >35 and ≤ 55 |
| E | > 55 and ≤ 80 |
| F | > 80 |

Signalized Intersections Level of Service Descriptions

| LOS | General Description |
|-----|--|
| А | Very low delay at intersection. All signal cycles clear. No vehicles wait through more than one signal cycle. |
| В | Operating speeds beginning to be affected by other traffic. Short traffic delays at intersections. Higher average intersections delays resulting from more vehicles stopping. |
| С | Operating speeds and maneuverability closely controlled by other traffic. Higher delays at intersections than for LOS B due to a significant number of vehicles stopping. Not all signal cycles clear the waiting vehicles. |
| D | Tolerable operating speeds, but long traffic delays occur at intersections The influence of congestion is noticeable. Many vehicles stop and the proportion of vehicles not stopping declines. The number of signal cycle failures, for which vehicles must wait through more than one signal cycle are noticeable. |
| E | Speeds are restricted, very long traffic delays are experienced and traffic volumes are near capacity. Traffic flow is unstable so that any interruption, no matter how minor, will cause queues to form and service to deteriorate. Traffic signal cycle failures are frequent occurrences. |
| F | Extreme delays resulting in long queues which may interfere with other traffic movements Stoppages of long duration and speeds may drop to zero. There may be frequent signal failures. Vehicle arrival rates are greater than capacity. Considered unacceptable by most drivers. |

ACCIDENT DATA

OFFICER REPORTED CRASHES THAT OCCURRED at OR in the vicinity of THE FOLLOWING INTERSECTIONS ON SR 002

SR 002 (aka Sunset Hwy, mp 280.16 - 280.30) @ Flint Rd

SR 002 (aka Sunset Hwy, mp 280.31 - 280.35) @ Hilton Access - No Reported Crashes

SR 002 (aka Sunset Hwy, mp 280.46 - 280.50) @ Technology Blvd - No Reported Crashes

01/01/2016 - 12/31/2018

or planning the safety enhancement of potential crash sites, hazardous roadway conditions, or railway-highway crossings are not subject to discovery or admitted Under 23 U.S. Code § 148 and 23 U.S. Code § 409, safety data, reports, surveys, schedules, lists compiled or collected for the purpose of identifying, evaluating, into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location mentioned or addressed in such reports, surveys, schedules, lists, or data.

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|--|-------------|---|----------|----------------------------------|---------------|---|---|-------------|----------|---------|
| | |) 0 0 0 0 0 0 0 0 0 0 | | | | | | | | |
| | | TRAFFICW | | | | | | | | |
| JURISDICTION | CITY | ΑY | MILEPOST | DATE | TIME MC | TIME MOST SEVERE INJURY TYPE | | # FAT # VEH | H # PEDS | # BIKES |
| State Route | Spokane 002 | 002 | 280.18 | 10/10/2018 17:34 Possible Injury | 17:34 Pos | ssible Injury | Ħ | 0 | 2 (| 0 |
| State Route | Spokane 002 | 002 | 280.20 | 01/26/2017 20:20 Possible Injury | 20:20 Pos | ssible Injury | П | 0 | 2 (| 0 |
| State Route | Spokane 002 | 002 | 280.22 | 05/03/2016 | 14:30 No | 05/03/2016 14:30 No Apparent Injury | 0 | 0 | 2 (| 0 |
| State Route | Spokane 002 | 002 | 280.22 | 05/17/2016 | 10:36 No | 05/17/2016 10:36 No Apparent Injury | 0 | 0 | 2 (| 0 |
| State Route | Spokane 002 | 700 | 280.22 | 05/28/2016 | 01:19 No | 05/28/2016 01:19 No Apparent Injury | 0 | 0 | 2 (| 0 |
| State Route | Spokane 002 | 002 | 280.22 | 05/22/2016 | 15:48 No | 05/22/2016 15:48 No Apparent Injury | 0 | 0 | 2 (| 0 |
| State Route | Spokane 002 | 002 | 280.22 | 08/22/2016 | 13:17 No | 08/22/2016 13:17 No Apparent Injury | 0 | 0 | 2 (| 0 |
| State Route | Spokane 002 | 005 | 280.25 | 08/25/2016 | 08:51 No | 08/25/2016 08:51 No Apparent Injury | 0 | 0 | 2 (| 0 |
| State Route | Spokane 002 | 005 | 280.22 | 10/25/2016 19:30 Possible Injury | 19:30 Pos | ssible Injury | Н | 0 | 2 (| 0 |
| State Route | Spokane 002 | 002 | 280.25 | 11/04/2016 | 10:45 No | 11/04/2016 10:45 No Apparent Injury | 0 | 0 | 2 (| 0 |
| State Route | Spokane 002 | 002 | 280.25 | 12/01/2016 | 17:13 No | 12/01/2016 17:13 No Apparent Injury | 0 | 0 | 2 (| 0 |
| State Route | Spokane 002 | 005 | 280.22 | 12/26/2016 | 13:50 No | 12/26/2016 13:50 No Apparent Injury | 0 | 0 | 3 (| 0 |
| State Route | Spokane 002 | 005 | 280.22 | 03/06/2017 | 07:27 Sus | 03/06/2017 07:27 Suspected Minor Injury | 2 | 0 | 3 (| 0 |
| State Route | Spokane 002 | 002 | 280.22 | 06/06/2017 | 13:43 Sus | 06/06/2017 13:43 Suspected Serious Injury | 3 | 0 | 3 (| 0 |
| State Route | Spokane 002 | 002 | 280.22 | 11/24/2017 | 10:55 No | 11/24/2017 10:55 No Apparent Injury | 0 | 0 | 2 (| 0 |
| State Route | Spokane 002 | 005 | 280.22 | 03/16/2018 12:09 Possible Injury | 12:09 Pos | ssible Injury | 1 | 0 | 2 (| 0 0 |
| State Route | Spokane 002 | 005 | 280.22 | 03/16/2018 | 03:29 Unknown | known | 0 | 0 | 1 (| 0 0 |
| State Route | Spokane 002 | 005 | 280.22 | 08/21/2018 | 15:25 No | 08/21/2018 15:25 No Apparent Injury | 0 | 0 | 2 (| 0 0 |
| State Route | Spokane 002 | 002 | 280.22 | 11/21/2018 17:08 Possible Injury | 17:08 Pos | ssible Injury | 1 | 0 | 2 (| 0 0 |
| | | | | | | | | | | |

OFFICER REPORTED CRASHES THAT OCCURRED at OR in the vicinity of THE FOLLOWING INTERSECTIONS ON SR 002

SR 002 (aka Sunset Hwy, mp 280.16 - 280.30) @ Flint Rd

SR 002 (aka Sunset Hwy, mp 280.31 - 280.35) @ Hilton Access - No Reported Crashes

SR 002 (aka Sunset Hwy, mp 280.46 - 280.50) @ Technology Blvd - No Reported Crashes

01/01/2016 - 12/31/2018

or planning the safety enhancement of potential crash sites, hazardous roadway conditions, or railway-highway crossings are not subject to discovery or admitted Under 23 U.S. Code § 148 and 23 U.S. Code § 409, safety data, reports, surveys, schedules, lists compiled or collected for the purpose of identifying, evaluating, into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location mentioned or addressed in such reports, surveys, schedules, lists, or data.

| | BIKES | 0 | 0 | 0 |
|---------------------|---|----------------------------------|----------------------------------|--|
| | # PEDS # | 0 | 0 | 0 |
| | # VEH | 2 | 2 | 3 |
| | # FAT | 0 | 0 | 0 |
| | # INJ | 1 | 1 | 0 |
| | TIME MOST SEVERE INJURY TYPE # INJ # FAT # VEH # PEDS # BIKES | 11/29/2017 10:40 Possible Injury | 06/21/2017 10:55 Possible Injury | 280.25 10/17/2018 16:09 No Apparent Injury |
| | TIME | 10:40 | 10:55 | 16:09 |
| | DATE | 11/29/2017 | 06/21/2017 | 10/17/2018 |
| | MILEPOST | 280.23 | 280.24 | 280.25 |
| PRIMARY TRAFFICW | АУ | 002 | 005 | 002 |
| | CITY | Spokane 002 | Spokane 002 | Spokane 002 |
| | JURISDICTION CITY | State Route | State Route | State Route |

RAW TRAFFIC COUNTS

DATE OF COUNT: 5/16/2019

Flint Road ల

TRAFFIC COUNT REDUCTION WORKSHEET

Phone: (509) 951-1851 email: benq@trfcnfs.com

Traffic Counts & Surveys™

| Miovision | , | | | | | | | | | | | | | | | | 1 |) | | | | | | |
|---------------------------|------------|----------|---------|---------|-------|---------|-------|---------|-------|---------|-------|----------------------------|--------|----------|--------|----------|-------|----------|-------|---------|-------|----------|-------|----------|
| | BNG | | | | | | | | | | 15 | 15 Minute Period Beginning | Period | Beginn | ning @ | | | | | | | | | |
| APPROACH | MOVEMENT | | 6:30 AM | 6:45 AM | AM | 7:00 AM | AM | 7:15 AM | AM | 7:30 AM | AM | 7:45 AM | AM. | 8:00 AM | M | 8:15 AM | M | 8:30 AM | - | 8:45 AM | > | 9:00 AM | Σ | 9:15 AM |
| | | pass trk | trk | pass | trk | pass | trk | pass t | trk p | pass tr | trk | pass trk | | pass trk | | pass trk | | pass trk | pass | ss trk | | pass trk | | pass trk |
| Eastbound | Left | 0 | 0 | 4 | 1 | 5 | 3 | 9 | 0 | 1 | 0 | 4 | 2 | 80 | 0 | 5 | 3 | 5 | 12 | 5 | 2 | 5 | - | 9 |
| | Through | 199 | 3 | 182 | 10 | 183 | 12 | 233 | 14 | 278 | 20 | 239 | 12 | 229 | 14 | 208 | 24 | 167 | 15 | 188 | 20 | 178 | 20 | 186 |
| | Right | 13 | 1 | 5 | 0 | 10 | + | 14 | 0 | 11 | 0 | 23 | 0 | 14 | 0 | 11 | - | 21 | 0 | 13 | 0 | 16 | + | 14 |
| | App. Total | 212 | 4 | 191 | 11 | 198 | 16 | 253 | 14 | 290 | 20 | 266 | 17 | 251 | 14 | 224 | 28 | 193 | 27 | 206 | 22 | 199 | 22 | 206 |
| | Pct Trucks | | 0.019 | | 0.054 | | 0.075 | | 0.052 | | 0.065 | | 90.0 | ٦ | 0.053 | 3 | 0.111 | 0. | 0.123 | 0 | 960.0 | | | 0.096 |
| Westbound | Left | 5 | 0 | 4 | 1 | 7 | 0 | 7 | 0 | 2 | 0 | 3 | 0 | 2 | 0 | 11 | 0 | 17 | 0 | 5 | 0 | 5 | 2 | - |
| | Through | 296 | 9 | 316 | 11 | 249 | 16 | 244 | 21 | 276 | 25 | 261 | 16 | 235 | 14 | 206 | 17 | 245 | 28 | 230 | 15 | 204 | 24 | 240 |
| | Right | 9 | 0 | 10 | 0 | 8 | | 9 | - | 6 | 0 | 4 | 4 | 7 | 0 | 7 | 0 | 80 | - | 7 | 60 | 00 | - | 6 |
| | App. Total | 310 | 6 | 330 | 12 | 264 | 17 | 257 | 22 | 287 | 25 | 268 | 20 | 247 | 14 | 224 | 17 | 270 | 29 | 242 | 18 | 217 | 27 | 250 |
| | Pct Trucks | | 0.028 | | 0.035 | | 90.0 | | 0.079 | | 0.08 | | 690.0 | ۲ | 0.054 | 3 | 0.071 | 0.0 | 760.0 | - | 690.0 | _ | | 0.097 |
| Northbound | Left | 19 | 2 | 10 | 1 | 14 | 2 | 17 | 0 | 18 | 0 | 14 | 3 | 19 | 2 | 18 | - | 18 | 2 | 7 | 0 | 24 | - | 16 |
| | Through | 2 | 0 | | 1 | က | - | 0 | 0 | - | 0 | 2 | - | - | 0 | 2 | 0 | 2 | 0 | 3 | 0 | 2 | 0 | 0 |
| | Right | 2 | 0 | 1 | - | 1 | 0 | 1 | 1 | 2 | 0 | 4 | 0 | 9 | 0 | 9 | 0 | 2 | 0 | 3 | 0 | 2 | 0 | - |
| | App. Total | 23 | 2 | 12 | 3 | 18 | 3 | 18 | 1 | 2.1 | 0 | 20 | 4 | 56 | 2 | 56 | 1 | 22 | 2 | 13 | 0 | 31 | 1 | 17 |
| | Pct Trucks | | 0.08 | | 0.2 | | 0.143 | | 0.053 | | 0 | 0 | 0.167 | _ | 0.071 | 3 | 0.037 | 0.0 | 0.083 | - | 0 | 0 | 0.031 | 0.105 |
| Southbound | Left | 23 | 0 | 16 | 0 | 22 | 0 | 44 | 2 | 39 | 0 | 21 | 1 | 19 | 0 | 25 | 4 | 13 | 0 | 17 | 0 | 14 | - | 13 |
| | Through | 9 | 0 | 11 | 0 | 8 | 0 | 10 | 0 | 7 | 0 | 8 | 0 | 11 | 0 | 80 | 0 | 2 | 0 | 9 | 0 | - | 0 | - |
| | Right | 10 | 0 | 17 | 1 | 6 | * | 9 | 5 | 9 | 0 | 13 | 2 | 10 | 2 | 7 | 0 | 5 | 4 | 7 | - | 60 | 4 | 80 |
| | App. Total | 39 | 0 | 44 | - | 39 | - | 09 | 7 | 52 | 0 | 42 | 3 | 40 | 2 | 40 | 4 | 23 | 4 | 30 | - | 18 | 5 | 22 |
| | Pct Trucks | | 0 | | 0.022 | | 0.025 | | 0.104 | | 0 |) | 0.067 |) | 0.048 | 0 | 0.091 | 0. | 0.148 | 0 | 0.032 | 0 | 0.217 | |
| Total Intersection Volume | /olume | 584 | 15 | 222 | 27 | 519 | 37 | 588 | 44 | 650 | 45 | 969 | 44 | 564 | 32 | 514 | 20 | 508 | 62 4 | 491 | 41 | 465 | 55 | 495 |
| Intersection Pct Trucks | ıcks | 2.5 | 2.5% | 4.5% | 2% | 6.7% | % | 7.0% | % | 6.5% | 9 | 6.9% | ,0 | 5.4% | .0 | 8.9% | .0 | 10.9% | | 7.7% | | 10.6% | 9 | 8.8% |

| Pedestrian Volumes | mes | | | | 1 | 5 Minu | te Peric | 15 Minute Period Beginning @ | nning (| 9 | | | |
|--------------------|-----------|------|------|------|------|--------|----------|------------------------------|---------|------|------|------|------|
| APPROACH | MOVEMENT | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 8:15 | 8:30 | 8:45 | 9:00 | 9:15 |
| | | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped |
| Eastbound | Crosswalk | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Westbound | Crosswalk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Northbound | Crosswalk | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Southbound | Crosswalk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Total | 0 | 1 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |

7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 8:15 | 8:30 | 8:45 | 9:00 | 9:15

bike

bike

bike

bike bike bike bike bike

bike

bike bike

Through

MOVEMENT 6:30 6:45

Bicycle Volumes APPROACH

| Intersection Total | ion Total | Pct |
|--------------------|------------------|--------|
| One Hour | One Hour Volumes | Trucks |
| 6:30 AM | 2391 | 5.1% |
| 6:45 AM | 2487 | 6.2% |
| 7:00 AM | 2523 | 6.7% |
| 7:15 AM | 2563 | 6.4% |
| 7:30 AM | 2495 | %6.9 |
| 7:45 AM | 2370 | 7.9% |
| 8:00 AM | 2262 | 8.2% |
| 8:15 AM | 2186 | 9.5% |
| 8:30 AM | 2171 | 9.8% |

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Through Through Through

Northbound Southbound Westbound Eastbound

Hwy 2 & Flint Rd

Page 6 of 14

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Flint Road

Data Transfer Intersection No.

| Counter | Counter Analyst Miovision BNG | | | AM PEAK HOUR BREAKDOWN | AM PEAK | AM PEAK HOUR BREAKDOWN | EAKDOWN | | Phone: (509) 951-1851 email: beng@trfcnts.com | 9) 951-185 #@trfcnts.c | 1 om | © Surveys√ | Sinc |
|--------------------------|----------------------------------|------|----------|------------------------|----------|------------------------|----------|------|--|---------------------------|---------|------------|--------|
| APPROACH | MOVEMENT | 7: | 7:15 AM | 7. | 7:30 AM | 7:4 | 7:45 AM | 8:0 | 8:00 AM | | | Pct | App |
| | | pass | trk | pass | trk | pass | trk | pass | trk | TOTAL | P.H.F. | Trucks | Dist |
| Eastbound | Left | | 9 | | 1 (| 0 | 4 5 | 80 | 0 | 24 | 0.67 | 21% | 2.13% |
| | Through | 23 | 233 14 | 278 | 78 20 | 239 | 12 | 229 | 14 | 1039 | | %9 | 92.36% |
| | Right | | 14 0 | 1 | 1 | 0 23 | 3 0 | 14 | 0 | 62 | 0.67 | %0 | 5.51% |
| | App. Total | 25 | 253 14 | 290 | 00 20 | 266 | 5 17 | 251 | 14 | 1125 | | | |
| | Pct Trucks | | 0.052434 | | 0.064516 | 0 | 0.060071 | | 0.05283 | | | I | |
| Westbound | Left | | 0 2 | | 2 (| . 0 | 3 0 | 5 | 0 | 17 | 0.61 | %0 | 1.49% |
| | Through | 24 | 244 21 | 276 | 6 25 | 5 26' | 1 16 | 235 | 14 | 1092 | 0.91 | 4.2 | 95.79% |
| | Right | | 6 | | 6 | 0 | 4 | 7 | 0 | 31 | 0.86 | 16% | 2.72% |
| | App. Total | 257 | 57 22 | 287 | 7 25 | 5 268 | 3 20 | 247 | 14 | 1140 | 0.91 | | |
| | Pct Trucks | | 0.078853 | | 0.080128 | | 0.069444 | | 0.05364 | | | | |
| Northbound | Left | | 0 21 | | 18 | 1, | 4 3 | 19 | 2 | 73 | 0.87 | 4.2 | 79.35% |
| | Through | | 0 0 | | 1 | 0 | 2 1 | - | 0 | 5 | 0.42 | 20% | 5.43% |
| | Right | | 1 | | 2 0 | 0 | 0 | 9 | 0 | 14 | | | 15.22% |
| | App. Total | | 18 1 | 2 | 21 (| 0 20 | 4 | 26 | 2 | 92 | 0.82 | | |
| | Pct Trucks | | 0.052632 | | 0 | 0 | 0.166667 | | 0.071429 | | | | |
| Southbound | Left | 7 | 44 2 | | 39 (5 | 0 21 | 1 | 19 | 0 | 126 | 0.68 | 2% | 61.17% |
| | Through | - | 10 0 | | 2 | 0 | 8 0 | 11 | 0 | 36 | 0.82 | %0 | 17.48% |
| | Right | | 6 5 | | 9 | 1: | 13 2 | 10 | 2 | 44 | 0.73 | 20% | 21.36% |
| | App. Total | P | 60 | 5 | 52 0 | 0 42 | 2 3 | 40 | 2 | 206 | 0.77 | | |
| | Pct Trucks | | 0.104478 | | 0 | 0 | 0.066667 | | 0.047619 | | | | |
| otal Intersection Volume | Nolume L | 58 | 588 44 | 650 | 0 45 | 969 | 3 44 | 564 | 32 | 2563 | 0.92 | %9 | |
| Intersection Pct Trucks | Trucks | | 7.0% | | 6.5% | -0 | 6.9% | | 5.4% | | | | |

| caccinal voluinos | | | | | | |
|-------------------|-----------|------|------|------|------|-------|
| | | 7:15 | 7:30 | 7:45 | 8:00 | Ped |
| APPROACH | MOVEMENT | Ped | Ped | Ped | Ped | TOTAL |
| Eastbound | Crosswalk | 0 | 0 | 0 | 0 | 0 |
| Nestbound | Crosswalk | 0 | 0 | 0 | 0 | 0 |
| Northbound | Crosswalk | 0 | 0 | 0 | 0 | 0 |
| Southbound | Crosswalk | 0 | 0 | 0 | 0 | 0 |
| | Total | 0 | 0 | 0 | 0 | |

| red | TOTAL | 0 | 0 | 0 | 0 | | Confli. | Bike | TOTAL | 0 | 0 | 0 | 0 | |
|------|----------|-----------|-----------|------------|------------|-------|------------------|------|----------|-----------|-----------|------------|------------|-------|
| 0.00 | Ped | 0 | 0 | 0 | 0 | 0 | | 8:00 | bike | | | | | 0 |
| 04.7 | Ped | 0 | 0 | 0 | 0 | 0 | | 7:45 | bike | | | | | 0 |
| 00.7 | Ped | 0 | 0 | 0 | 0 | 0 | | 7:30 | bike | | | | | c |
| 61.7 | Ped | 0 | 0 | 0 | 0 | 0 | | 7:15 | bike | | | | | c |
| | MOVEMENT | Crosswalk | Crosswalk | Crosswalk | Crosswalk | Total | | | MOVEMENT | Through | Through | Through | Through | Total |
| | APPROACH | Eastbound | Westbound | Northbound | Southbound | | Bicycles Volumes | | APPROACH | Eastbound | Westbound | Northbound | Southbound | |

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| | 0 | 40 | |
|----------------------------------|-------------------|--|-------------------|
| fication | Truck Vehicle | STATE OF THE PROPERTY OF THE P | a classification) |
| Miovision Vehicle classification | le | | All Vehicles (no |
| Miovisia | Passenger Vehicle | autr Carlo | |
| | Р | 2 R | |

Hwy 2 & Flint Rd

PROJECT: WCE Bush BSP JOB NO. 19-15 INTERSECTION: Highway 2

Flint Road

TRAFFIC COUNT REDUCTION WORKSHEET

| Counter | Analyst | | | | | | | | | | PM PE | PM PEAK HOURS | URS | | | | email: L | email: beng@trfcnts.com | rfcnts.c | mo | ۵ | Surv | E Surveys. | 1 | |
|---------------------------|------------|----------|-------|---------|-------|---------|-------|---------|-------|---------|-------|------------------------------|----------|--------|---------|---------|----------|-------------------------|----------|----------|-------|---------|------------|----------|-------|
| Miovision | BNG | | | | | | | | | | - | 15 Minute Period Beginning @ | te Peric | d Begi | nning (| | | | | | | | | | |
| APPROACH | MOVEMENT | 3:30 PM | Σ | 3:45 PM | Md | 4:00 PN | PM | 4:15 PM | PM | 4:30 PM | PM | 4:45 PM | PM | 5:00 | 5:00 PM | 5:15 PM | PM | 5:30 PM | PM | 5:45 PM | PM | 6:00 PM | Me | 6:15 PM | 5 |
| | | pass trk | | pass tr | trk p | pass t | trk | pass | trk | pass | trk | pass | trk | pass | trk | pass | trk | pass | trk | pass trk | | pass t | Г | pass trk | |
| Eastbound | Left | 6 | 0 | 30 | 4 | 12 | - | 11 | 4 | 11 | - | 14 | - | 18 | 0 | 7 | 0 | 6 | 2 | 12 | 0 | | 0 | 11/0 | C |
| | Through | 372 | 23 | 397 | 16 | 342 | 13 | 382 | 12 | 387 | 9 | 352 | 16 | 355 | 7 | 310 | 12 | 248 | 9 | 234 | 13 | 218 | 4 | 173 | 0 |
| | Right | 18 | 2 | 27 | - | 20 | - | 29 | - | 19 | 0 | 26 | - | 23 | - | 17 | 0 | 23 | | 18 | + | 12 | 0 | 14 | 0 |
| | App. Total | 399 | 25 | 454 | 21 | 374 | 15 | 422 | 17 | 417 | 7 | 392 | 18 | 396 | 8 | 334 | 12 | 280 | 00 | 264 | 14 | 241 | 4 | 193 | 2 |
| | Pct Trucks | 0 | 0.059 | _ | 0.044 | | 0.039 | | 0.039 | | 0.017 | | 0.044 | | 0.02 | | 0.035 | | 0.028 | | 0.05 | - | 0.016 | | 0.01 |
| Westbound | Left | 3 | 0 | 7 | 1 | 3 | 0 | 8 | 0 | 3 | 0 | 7 | _ | 5 | 0 | 12 | 0 | 80 | 0 | 7 | 0 | 9 | - | 11 | 0 |
| | Through | 299 | 11 | 296 | 6 | 282 | 5 | 280 | 12 | 274 | 8 | 260 | - | 209 | 5 | 272 | 7 | 286 | 5 | 301 | 0 | 341 | 9 | 254 | 2 |
| | Right | 21 | 4 | 19 | 2 | 25 | 2 | 24 | 0 | 24 | 0 | 24 | - | 20 | 1 | 28 | 0 | 45 | 2 | 30 | 0 | 29 | - | 29 | 0 |
| | App. Total | 323 | 15 | 322 | 12 | 310 | 7 | 312 | 12 | 301 | 8 | 291 | 3 | 234 | 9 | 312 | 7 | 339 | 7 | 338 | m | 376 | 00 | 294 | 2 |
| | Pct Trucks | 0. | 0.044 | 1 | 0.036 | | 0.022 | | 0.037 | | 0.026 | | 0.01 | | 0.025 | | 0.022 | | 0.02 | _ | 0.009 | | 0.021 | - | 0.007 |
| Northbound | Left | 22 | 0 | 30 | 3 | 21 | - | 28 | 0 | 31 | 1 | 25 | 0 | 19 | 1 | 28 | 0 | 33 | 0 | 26 | 2 | 25 | 2 | 24 | 2 |
| | Through | 7 | , | 2 | 0 | 10 | 0 | 9 | 0 | 18 | 0 | 9 | 0 | 11 | - | 80 | 0 | 13 | 0 | 5 | - | 7 | 0 | 11 | 0 |
| | Right | 7 | - | 12 | 0 | 12 | 0 | 8 | 0 | 18 | 0 | 7 | 0 | 7 | 0 | က | 0 | 6 | 0 | 3 | 0 | 3 | 0 | 4 | - |
| | App. Total | 36 | 2 | 49 | 3 | 43 | 1 | 42 | 0 | 19 | 1 | 38 | 0 | 37 | 2 | 39 | 0 | 55 | 0 | 34 | 3 | 35 | 2 | 39 | 3 |
| | Pct Trucks | 0. | 0.053 | | 0.058 | | 0.023 | | 0 | | 0.015 | | 0 | | 0.051 | | 0 | | 0 | | 0.081 | | 0.054 | 0 | 0.071 |
| Southbound | Left | 6 | 0 | 11 | 3 | 13 | က | 6 | 2 | 15 | 1 | 20 | 3 | 13 | 2 | 11 | 0 | 7 | 0 | 11 | - | 4 | 0 | 16 | 0 |
| | Through | 7 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 10 | 1 | 4 | 0 | 0 | 0 | 5 | 0 | 4 | 0 | 4 | 0 | 2 | 0 |
| | Right | 8 | 1 | 9 | 3 | 4 | 1 | 6 | 1 | 10 | 2 | 80 | 2 | 9 | 0 | 60 | 0 | 6 | - | 9 | 0 | 4 | - | 0 | 0 |
| | App. Total | 24 | 1 | 19 | 9 | 19 | 4 | 20 | 60 | 27 | 3 | 38 | 9 | 23 | 2 | 14 | 0 | 21 | 1 | 21 | 1 | 12 | - | 24 | 0 |
| | Pct Trucks | | 0.04 | | 0.24 | | 0.174 | Ĭ | 0.13 | | 0.1 | | 0.136 | | 0.08 | | 0 | | 0.045 | | 0.045 | | 0.077 | H | 0 |
| Fotal Intersection Volume | Volume | 782 | 43 | 844 | 42 | 746 | 27 | 962 | 32 | 812 | 19 | 759 | 27 | 069 | 18 | 669 | 19 | 695 | 16 | 657 | 21 | 664 | 15 | 550 | 7 |
| Intersection Pct Trucks | rucks | 5.2% | | 4.7% | 9 | 3.5% | % | 3 9% | % | 70€ 6 | % | 70 V E | 70 | 16 | 2 E0/ | 709 6 | 70 | 70° C | 70 | 2 10/ | 76 | 700 0 | | 4 90/ | |

| Pedestrian Volumes | mes | | | | - | 5 Minu | te Peric | 15 Minute Period Beginning @ | nning (C | (9) | | | |
|--------------------|-----------|------|------|------|------|--------|----------|------------------------------|----------|------|------|------|------|
| APPROACH | MOVEMENT | 3:30 | 3:45 | 4:00 | 4:15 | 4:30 | 4:45 | 5:00 | 5:15 | 5:30 | 5:45 | 00:9 | 6:15 |
| | | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped |
| Eastbound | Crosswalk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 |
| Westbound | Crosswalk | - | - | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Northbound | Crosswalk | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Southbound | Crosswalk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Total | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | - |

| | | | | | | | | | | | | , |) |
|-----------------|---------------|------|------|------|------|--------|------------------------------|--------|--------|------|----------------|------|------|
| | Total | 3 | - 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | - |
| | | | | | | | | | | | | | |
| Bicycle Volumes | | | | | 1 | 5 Minu | 15 Minute Period Beginning @ | d Begi | ming (| (9) | | | |
| APPROACH | MOVEMENT 3:30 | 3:30 | 3:45 | 4:00 | 4:15 | 4:30 | 4:00 4:15 4:30 4:45 5:00 | 5:00 | 5:15 | 5:30 | 5:15 5:30 5:45 | 6:00 | 6:15 |
| | | bike | bike | bike | bike | bike | bike | bike | bike | bike | bike | bike | bike |
| Eastbound | Through | | | | | | | | | | | | |
| Westbound | Through | | | | | | | | | | | | |
| Northbound | Through | | | | | | | | | | | | |
| Southbound | Through | | | | | | | | | | | | |
| | Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Intersection Total | on Total | Pct |
|--------------------|----------|--------|
| One Hour Volumes | Volumes | Trucks |
| 3:30 PM | 3312 | 4.3% |
| 3:45 PM | 3318 | 3.6% |
| 4:00 PM | 3218 | 3.3% |
| 4:15 PM | 3153 | 3.0% |
| 4:30 PM | 3043 | 2.7% |
| 4:45 PM | 2923 | 2.7% |
| 5:00 PM | 2815 | 7.6% |
| 5:15 PM | 2786 | 2.5% |
| 5:30 PM | 2625 | 2.2% |

WCE Bush BSP PROJECT:

INTERSECTION: Highway 2 19-15 JOB NO.

Flint Road

Data Transfer Intersection No.

| Miovision | BNG | | | | | | | | | email: be | email: beng@trfcnts.com | com | ם שונהלים וחר ה | J510E/1/ |
|--------------------------|------------|------|----------|-------|-----|----------|-------|----------|-------|-----------|-------------------------|--------|-----------------|----------|
| APPROACH | MOVEMENT | | 3:45 PM | | 4:0 | 4:00 PM | 4 | 4:15 PM | .4 | 4:30 PM | | | Pct | App |
| | | pass | trk | pass | SS | trk | pass | tk | pass | tk | TOTAL | P.H.F. | Trucks | Dist |
| Eastbound | Left | | 30 | 4 | 12 | | | - | 4 | 11 | 1 74 | 4 0.54 | 14% | 4.28% |
| | Through | 33 | 397 | 16 | 342 | 13 | 382 | 2 12 | 387 | 23 | 1555 | | | 90.04% |
| | Right | | 27 | 1 | 20 | | 2 | 29 | _ | 19 | 0 98 | | | 5.67% |
| | App. Total | 4 | 454 | 21 | 374 | 15 | 5 422 | 2 17 | 7 417 | 7 | 7 1727 | 7 0.91 | | |
| | Pct Trucks | | 0.044 | 14211 | | 0.03856 | 15 | 0.038724 | _ | 0.016509 | | | | |
| Westbound | Left | | 7 | 1 | 3 | 0 | | 8 | 0 | 3 | 0 22 | 0.69 | 9 | 171% |
| | Through | 29 | 296 | 6 | 282 | 5 | 280 | 0 12 | 274 | 4 | 1166 | | | 90.81% |
| | Right | | 19 | 2 | 25 | 2 | | 24 | 0 | 24 | 96 | 3 0.89 | | 7.48% |
| | App. Total | 33 | 322 | 12 | 310 | 7 | 312 | 2 12 | 301 | 11 | 1284 | 0.96 | 100 | |
| | Pct Trucks | | 0.035 | 35928 | | 0.022082 | | 0.037037 | | 0.02589 | | | | |
| Northbound | Left | , , | 30 | 3 | 21 | , | 2 | 28 | 0 | 31 | 1 115 | 5 0.87 | 4% | 55.83% |
| | Through | | 7 | 0 | 10 | 0 | | 9 | 1 | 18 | 0 41 | 1 0.57 | | 19.90% |
| | Right | | 12 | 0 | 12 | 0 | | 8 | 1 | 18 | 0 50 | | | 24.27% |
| | App. Total | , | 49 | 3 | 43 | | 4 | 42 (| 9 | 29 | 1 206 | 3 0.76 | | |
| | Pct Trucks | | 0.057692 | 592 | | 0.022727 | | | 0 | 0.014706 | 9 | | | |
| Southbound | Left | | 11 | 3 | 13 | 3 | | 6 | 2 | 15 | 1 57 | 0.89 | 16% | 56.44% |
| | Through | | 2 | 0 | 2 | 0 | | 2 | 0 | 2 | 0 | 1.00 | | 7.92% |
| | Right | | 9 | 3 | 4 | 1 | | 6 | | 10 | 2 36 | 3 0.75 | 19% | 35.64% |
| | App. Total | , | 19 | 9 | 19 | 4 | | 20 | 3 2 | 27 | 3 101 | 0.84 | | |
| | Pct Trucks | | 0 | 0.24 | | 0.173913 | | 0.130435 | 10 | 0.1 | - | | | |
| otal Intersection Volume | Volume | 8 | 844 | 42 | 746 | 27 | 962 | 6 32 | 812 | 2 19 | 3318 | 0.94 | 4% | |
| Intersection Dot Trucks | riote | | | 70L V | | 2 50/ | | 2 00/ | | 7000 | | | | |

Confli. Ped TOTAL 4:30 Ped 4:15 Ped 4:00 Ped Ped MOVEMENT Crosswalk Crosswalk Crosswalk Crosswalk Pedestrian Volumes APPROACH Northbound Westbound Eastbound

Confli. TOTAL Bike 4:30 bike 4:15 bike 4:00 bike 3:45 bike MOVEMENT Through Through Through Through Bicycles Volumes APPROACH Northbound Southbound Westbound Eastbound

Notes

| 4 | |
|-------------------|----------------------|
| Truck Vehicle | Mediums Mediums |
| | |
| ehicle | Ingeres and a second |
| Passenger Vehicle | 1 |

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Total

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Hilton Access

TRAFFIC COUNT REDUCTION WORKSHEET

| Counter | Counter | | | | | | | | | | AM PE | AM PEAK HOURS | JRS | | | | Phone: email: t | Phone: (509) 951-1851 email: beng@trfcnts.com | 51-185 fcnts.co | _ E | Ċ | Surv | & Surveys | | |
|---------------------------|------------|----------|-------|----------|-------|---------|-------|------|---------|---------|-------|----------------------------|---------|---------|--------|---------|--------------------|---|--------------------|---------|-------|----------|-----------|----------|-------|
| Miovision | BNG | | | | | | | | | | 1 | 15 Minute Period Beginning | e Perio | d Begin | ming @ | 0 | | | | ŀ | | | | | |
| APPROACH | MOVEMENT | 6:30 AM | _ | 6:45 AM | M | 7:00 AM | AM | 7:15 | 7:15 AM | 7:30 AM | AM | 7:45 AM | AM | 8:00 AM | AM | 8:15 AM | AM | 8:30 AM | AM | 8:45 AM | AM | 9:00 AM | W | 9:15 AM | Σ |
| | | pass trk | ba | pass trk | | pass | trk | pass | trk | pass | trk | pass | trk | pass | trk | pass | trk | pass t | trk | pass to | trk | pass trk | Т | pass trk | |
| Eastbound | Left | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | | 0 | | C | llc | 100 |
| | Through | 247 | 13 | 211 | 17 | 195 | 11 | 298 | 21 | 309 | 25 | 274 | 16 | 203 | 18 | 212 | 16 | 208 | 16 | 179 | 28 | 198 | 15 | 176 | 26 |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |
| | App. Total | 248 | 13 | 211 | 17 | 195 | 11 | 299 | 21 | 311 | 26 | 274 | 16 | 203 | 18 | 212 | 16 | 208 | 20 | 179 | 28 | 198 | 15 | 176 | 26 |
| | Pct Trucks | 0 | 0.05 | | 0.075 | | 0.053 | | 0.066 | | 0.077 | | 0.055 | | 0.081 | | 0.07 | | 0.088 | | 0.135 | | 0.07 | _ | 0.129 |
| Westbound | Left | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | P |
| | Through | 311 | 11 | 300 | 7 | 252 | 14 | 253 | 15 | 241 | 21 | 227 | 24 | 189 | 26 | 217 | 43 | 236 | 19 | 223 | 21 | 176 | 19 | 181 | 20 |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | App. Total | 311 | 11 | 300 | 7 | 252 | 14 | 253 | 15 | 241 | 21 | 227 | 24 | 189 | 26 | 217 | 43 | 236 | 19 | 223 | 21 | 176 | 19 | 181 | 20 |
| | Pct Trucks | 0.0 | 0.034 | | 0.023 | | 0.053 | | 0.056 | | 0.08 | | 960.0 | | 0.121 | | 0.165 | | 0.075 | _ | 0.086 | _ | 0.097 | | 0 |
| Northbound | Left | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | P |
| | Through | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Right | + | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 3 | - | 2 | 0 | - | 0 | e | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| | App. Total | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 3 | 1 | 2 | 0 | 1 | 0 | e | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| | Pct Trucks | | 0 | | - | 1 | 0 | | 0 | | | | 0.25 | | 0 | | 0 | | 0 | 7 | 0 | | | | |
| Southbound | Left | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Through | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | App. Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Pct Trucks | | | | | | | | | | | | | | | | | | | | | | l | H | |
| Total Intersection Volume | Volume | 260 | 24 | 511 | 25 | 448 | 25 | 553 | 36 | 552 | 47 | 504 | 41 | 394 | 44 | 430 | 59 | 447 | 39 | 404 | 49 | 374 | 34 | 357 | 46 |
| Intersection Pct Trucks | Ticks | 4 1% | | 47% | , | 5 3% | % | 6.1 | 6 1% | 7 8% | % | 7 50% | % | 10.0% | 701 | 12 1% | % | 8 0% | 7 | 10 8% | 7/0 | 8 30% | | 14 40/ | |

| Pedestrian Volumes | mes | | | | - | 5 Minur | 15 Minute Period Beginning @ | d Beai | oning 6 | 6 | | | | Infere | 100 |
|--------------------|-----------|------|------|------|------|---------|------------------------------|--------|---------|------|------|------|------|---------|-----|
| APPROACH | MOVEMENT | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 8:15 | 8:30 | 8:45 | 9:00 | 9:15 | One Hor | 위 |
| | | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped | 6:30 AM | Σ |
| Eastbound | Crosswalk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 6:45 AM | Z |
| Westbound | Crosswalk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7:00 AM | 2 |
| Northbound | Crosswalk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7:15 AI | z |
| Southbound | Crosswalk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7:30 AM | Σ |
| | Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 7:45 AM | Σ |
| | | 1 | | | | | | | | | | | | 8:00 AM | 2 |

| Intersect | Intersection Total | Pct |
|-----------|--------------------|--------|
| One Hour | One Hour Volumes | Trucks |
| 6:30 AM | 2182 | 2.0% |
| 6:45 AM | 2197 | 6.1% |
| 7:00 AM | 2206 | %8.9 |
| 7:15 AM | 2171 | 7.7% |
| 7:30 AM | 2071 | 9.5% |
| 7:45 AM | 1958 | 9.3% |
| 8:00 AM | 1866 | 10.2% |
| 8:15 AM | 1836 | 86.6 |
| 8:30 AM | 1750 | 89.6 |

| Bicycle Volumes | | | | | 1 | 5 Minu | te Perio | od Begi | 15 Minute Period Beginning @ | 0 | | | |
|-----------------|----------|------|------|------|------|--------|----------|---------|------------------------------------|------|------|-----------|------|
| APPROACH | MOVEMENT | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 6:45 7:00 7:15 7:30 7:45 8:00 8:15 | 8:30 | 8:45 | 8:45 9:00 | 9:15 |
| | | bike | bike | bike | bike | bike | bike | bike | bike | bike | bike | bike | bike |
| Eastbound | Through | | | | | | | | | | | | |
| Westbound | Through | | | | | | | | | | | | |
| Northbound | Through | | | | | | | | | | | | |
| Southbound | Through | | | | | | | | | | | | |
| | Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | o | C | 0 |

Hilton Access ∞

Data Transfer Intersection No.

| DATE OF COUNCounter | DATE OF COUNT: 5/21/2019 Counter Analyst Miovision BNG | | | | TRAI | TRAFFIC COUNT REDUCTION WORKSHEET AM PEAK HOUR BREAKDOWN | AT REDUC K HOUR BI | IC COUNT REDUCTION WORK AM PEAK HOUR BREAKDOWN | KSHEI | | Phone: (509) 951-1851 email: beng@trfcnts.com | 9) 951-185 g@trfcnts.c | 11 20m | Traffic Counts & Surveys ∞/ | ounts | |
|--------------------------|--|------|---------|-------|------|---|-----------------------|---|-------|---------|--|---------------------------|-----------|--------------------------------|-------|---------|
| APPROACH | MOVEMENT | 7. | 7:00 AM | | 7:1 | 7:15 AM | 7. | 7:30 AM | | 7:45 AM | AM | | | Pct | A | do |
| | | pass | trk | Ь | pass | trk | pass | trk | pass | | trk | TOTAL | P.H.F. | Trucks | Q | Dist |
| Eastbound | Left | | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | | | | 0.00% |
| | Through | 1 | 195 | 11 | 298 | 8 21 | | 309 | 25 | 274 | 16 | 1149 | 0.86 | %9 | | 99.65% |
| | Right | | 0 | 0 | | 1 | 0 | 2 | - | 0 | 0 | 4 | | 3 25% | | 0.35% |
| | App. Total | 1, | 195 | 11 | 299 | 9 21 | | 311 | 26 | 274 | 16 | 1153 | 0.86 | 9 | | |
| | Pct Trucks | | 0.05 | 33398 | | 0.065625 | 5 | 0.077151 | 51 | | 0.055172 | | | | 1 | |
| Westbound | Left | | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | | | | 0.00% |
| | Through | 25 | 252 | 14 | 253 | | 15 24 | 241 | 21 | 227 | 24 | 1047 | 0.98 | 8 7% | | 100.00% |
| | Right | | 0 | 0 | T | 0 | 0 | 0 | 0 | 0 | 0 | | | | | 0.00% |
| | App. Total | 2: | 252 | 14 | 253 | | 15 241 | | 21 | 227 | 24 | 1047 | 0.98 | 8 | | |
| | Pct Trucks | | 0.05 | 2632 | | 0.05597 | 7 | 0.080153 | 53 | | 0.095618 | | | | | |
| Northbound | Left | | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0.00% |
| | Through | | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | | | | 0.00% |
| | Right | | 1 | 0 | | 1 | 0 | 0 | 0 | က | - | 9 | 0.38 | 8 17% | | 100.00% |
| | App. Total | | - | 0 | | 1 | 0 | 0 | 0 | 3 | 1 | 9 | | 8 | | |
| | Pct Trucks | | | 0 | | | 0 | | | | 0.25 | | | | | |
| Southbound | Left | | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Through | | 0 | 0 |) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Right | | 0 | 0 | , | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | App. Total | | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Pct Trucks | | | | | | | | | | | | | | | |
| otal Intersection Volume | Volume | 44 | 448 | 25 | 553 | | 36 55 | 552 | 47 | 504 | 41 | 2206 | 0.92 | 7% | | |
| Intersection Pct Trucks | rucks | | | 5.3% | | 6.1% | 20 | 7.8% | % | | 7.5% | | | | | |

| | The second of th | | | | | |
|--------------|--|------|------|------|------|-------|
| | | 7:00 | 7:15 | 7:30 | 7:45 | Ped |
| APPROACH N | MOVEMENT | Ped | Ped | Ped | Ped | TOTAL |
| Eastbound | Crosswalk | 0 | 0 | 0 | 0 | 0 |
| Westbound | Crosswalk | 0 | 0 | 0 | 0 | 0 |
| Northbound C | Crosswalk | 0 | 0 | 0 | 0 | 0 |
| Southbound | Crosswalk | 0 | 0 | 0 | 0 | 0 |
| | otal | 0 | 0 | 0 | 0 | |

| Bicycles Volumes | | | | | | Confli. |
|------------------|----------|------|------|------|------|---------|
| | | 7:00 | 7:15 | 7:30 | 7:45 | Bike |
| APPROACH | MOVEMENT | bike | bike | bike | bike | TOTAL |
| Eastbound | Through | | | | | 0 |
| Westbound | Through | | | | | 0 |
| Northbound | Through | | | | | 0 |
| Southbound | Through | | | | | 0 |
| | Total | 0 | C | C | c | |

| Truck Vehicle | STANSAMA STANSAMA |
|-------------------|---|
| Passenger Vehicle | NAME OF THE PARTY |
| | 2 |

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Hilton Access

TRAFFIC COUNT REDUCTION WORKSHEET

| Counter | DATE OF COUNT: 5/21/2019 Counter Analyst | | | | | | | | | | PM PE | PM PEAK HOURS | JRS | | | | email: t | Phone: (509) 951-1851 email: beng@trfcnts.com | fcnts.cc | ш | ω | € Surveys | & Surveys. | | |
|---------------------------|---|----------|-------|----------|-------|---------|-------|---------|-------|---------|-------|----------------------------|---------|---------|--------|---------|----------|---|----------|----------|-------|-----------|------------|----------|-------|
| Miovision | BNG | | | | | | | | | | - | 15 Minute Period Beginning | e Perio | d Begir | ming @ | 5 | | | | | | | | | |
| APPROACH | MOVEMENT | 3:30 PM | | 3:45 PM | M | 4:00 PM | PM | 4:15 PM | PM | 4:30 PM | PM | 4:45 PM | PM | 5:00 PM | PM | 5:15 PM | PM | 5:30 PM | Mc | 5:45 PM | Mc | 6:00 PM | Mc | 6:15 PM | Σ |
| | | pass trk | | pass trk | | pass t | trk | pass | trk | pass | trk | pass | trk | pass | trk | pass | trk | pass t | trk | pass trk | | pass trk | | pass trk | L |
| Eastbound | Left | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | |
| | Through | 310 | 21 | 410 | 20 | 419 | 14 | 410 | 18 | 387 | 16 | 413 | 15 | 352 | 12 | 327 | 14 | 276 | 7 | 253 | 17 | 228 | 80 | 217 | 15 |
| | Right | 2 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | - | 0 | 2 | 0 | - | 0 | 0 | 0 | 9 | 1 |
| | App. Total | 312 | 21 | 410 | 20 | 420 | 14 | 410 | 18 | 388 | 16 | 413 | 15 | 354 | 12 | 328 | 14 | 278 | 10 | 254 | 17 | 231 | 80 | 223 | 1.6 |
| | Pct Trucks | 0. | 0.063 | 0 | 0.047 | | 0.032 | | 0.042 | | 0.04 | | 0.035 | | 0.033 | | 0.041 | | 0.035 | _ | 0.063 | - | 0.033 | _ | 0.063 |
| Westbound | Left | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Through | 313 | 13 | 288 | 12 | 322 | 24 | 326 | 11 | 320 | 6 | 350 | 7 | 308 | 7 | 376 | m | 352 | 5 | 270 | 4 | 293 | 6 | 240 | (,) |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ٦ |
| | App. Total | 313 | 13 | 289 | 12 | 322 | 24 | 326 | 11 | 320 | 6 | 350 | 7 | 308 | 7 | 376 | 3 | 352 | 2 | 270 | 4 | 293 | 6 | 240 | 6.3 |
| | Pct Trucks | 0 | 0.04 | | 0.04 | | 0.069 | | 0.033 | | 0.027 | | 0.02 | | 0.022 | | 0.008 | | 0.014 | | 0.015 | | 0.03 | 0 | 0.012 |
| Northbound | Left | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | |
| | Through | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ٦ |
| | Right | 2 | 0 | - | 0 | 3 | 0 | 4 | 0 | 4 | 0 | 3 | 0 | - | 0 | e | 0 | 9 | 0 | 2 | 0 | 0 | 0 | - | 0 |
| | App. Total | 2 | 0 | 1 | 0 | 3 | 0 | 4 | 0 | 4 | 0 | 3 | 0 | + | 0 | 3 | 0 | 9 | 0 | 2 | 0 | - | 0 | - | 0 |
| | Pct Trucks | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | - | 0 | | 0 | | 0 | | 0 | | 0 | | ٦ |
| Southbound | Left | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Through | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | App. Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Pct Trucks | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Intersection Volume | 1 Volume | 627 | 34 | 200 | 32 | 745 | 38 | 740 | 29 | 712 | 25 | 992 | 22 | 663 | 19 | 707 | 17 | 636 | 15 | 526 | 21 | 525 | 17 | 464 | 18 |
| Intersection Pct Trucks | rucks | 5.1% | | 4 4% | | 4 9% | 7/1 | 3 80% | 70 | 2 A DZ | /0 | 700 6 | 70 | 700 6 | 70 | 1000 | /0 | 1000 | , | 700 6 | | 2 40/ | | 2 707 | |

| Pedestrian Volumes | mes | | | | - | 5 Minu | te Peric | 15 Minute Period Beginning (| ming @ | 0 | | | | | |
|--------------------|-----------|------|------|------|------|--------|----------|------------------------------|--------|------|------|------|------|-----|----|
| APPROACH | MOVEMENT | 3:30 | 3:45 | 4:00 | 4:15 | 4:30 | 4:45 | 5:00 | 5:15 | 5:30 | 5:45 | 00:9 | 6:15 | | |
| | | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped | 60 | 3 |
| Eastbound | Crosswalk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | (4) | m |
| Westbound | Crosswalk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | - |
| Northbound | Crosswalk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | - |
| Southbound | Crosswalk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | - |
| | Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 4 | ** |
| | | | | | | | | | | | | | | 4. | 10 |

| Intersection Total | on Total | Pct |
|--------------------|----------|--------|
| One Hour Volumes | Volumes | Trucks |
| 3:30 PM | 2945 | 4.5% |
| 3:45 PM | 3021 | 4.1% |
| 4:00 PM | 3077 | 3.7% |
| 4:15 PM | 2976 | 3.2% |
| 4:30 PM | 2931 | 2.8% |
| 4:45 PM | 2845 | 2.6% |
| 5:00 PM | 2604 | 2.8% |
| 5:15 PM | 2464 | 2.8% |
| 5:30 PM | 2222 | 3.2% |

| Bicycle Volumes | | | | | 1 | 5 Minu | 15 Minute Period Beginning @ | d Begi | nning (6 | 0 | | | |
|-----------------|----------|------|------|------|------|--------|---|--------|----------|------|------|------|------|
| APPROACH | MOVEMENT | 3:30 | 3:45 | 4:00 | 4:15 | 4:30 | 3:45 4:00 4:15 4:30 4:45 5:00 5:15 5:30 5:45 6:00 | 5:00 | 5:15 | 5:30 | 5:45 | 00:9 | 6:15 |
| | | bike | bike | bike | bike | bike | bike | bike | bike | bike | bike | bike | bike |
| Eastbound | Through | | | | 4 | | | | | | | | |
| Westbound | Through | | | | | | | | | | | | |
| Northbound | Through | | | | | | | | | | | | |
| Southbound | Through | | | | | | | Ĭ | | | | | |
| | Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Hilton Access ∞

Data Transfer Intersection No.

Traffic Counts

| DATE OF COUN Counter Miovision | DATE OF COUNT: 5/21/2019 Counter Analyst Miovision BNG | | | Ţ | RAFFIC COUNT REDUCTION WORKSHEET PM PEAK HOUR BREAKDOWN | PEAK F | HOUR BRE | PM PEAK HOUR BREAKDOWN | | Phone: (5 email: ber | Phone: (509) 951-1851 email: beng@trfcnts.com | 51 com | 8 Sur | Fraffic Counts & Surveys√ | ITS // |
|--------------------------------------|--|------|----------|------|---|----------|----------|------------------------|-------|----------------------|--|-----------|--------|------------------------------|---------|
| APPROACH | MOVEMENT | | 4:00 PM | | 4:15 PM | | 4:30 | 4:30 PM | 4:4 | 4:45 PM | | | Pct | _ | App |
| | | pass | trk | pass | trk | | pass | trk | pass | trk | TOTAL | P.H.F. | Trucks | | Dist |
| Eastbound | Left | | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 0 | 0.25 | %0 | 0.06% |
| | Through | 4 | 419 | 14 | 410 | 18 | 387 | 16 | 3 413 | | 1692 | | 0.98 | 4% | 99.88% |
| | Right | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0.25 | %0 | 0.06% |
| | App. Total | 4 | 420 | 14 | 410 | 18 | 388 | 16 | 3 413 | 3 15 | 1694 | | 0.98 | | |
| | Pct Trucks | | 0.032258 | 58 | 0.0 | 0.042056 | | 0.039604 | | 0.035047 | 7 | | | | |
| Westbound | Left | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0.00% |
| | Through | 3 | 322 2 | 24 | 326 | 11 | 320 | | 9 350 | 0 | 1369 | | 0.96 | 4% | 100.00% |
| | Right | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0.00% |
| | App. Total | 3 | 322 2 | 24 3 | 326 | 11 | 320 | | 9 350 | 0 | 1369 | | 0.96 | | |
| | Pct Trucks | | 0.069364 | 34 | 0.0 | 0.032641 | | 0.027356 | 100 | 0.019608 | 8 | | Г | | |
| Northbound | Left | | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | | 0.00% |
| | Through | | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | Γ | 0.00% |
| | Right | | 3 | 0 | 4 | 0 | 4 | | 0 | 3 | 1. | 4 | 0.88 | %0 | 100.00% |
| | App. Total | | 3 | 0 | 4 | 0 | 4 | | 0 | 3 | 1, | 4 | 0.88 | _ | |
| | Pct Trucks | | | 0 | | 0 | | J | 0 | | C | | I | | |
| Southbound | Left | | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | | |
| | Through | | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | | | |
| | Right | | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | C | 0 | | | |
| | App. Total | | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | | | |
| | Pct Trucks | | | | | 1 | | | | | | | | | |
| otal Intersection Volume | Volume 1 | 7. | 745 3 | 38 | 740 | 29 | 712 | 25 | 99/ | 6 22 | 2 3077 | | 0.98 | 4% | |
| Intersection Pct Trucks | Trucks | | 4.9% | % | | 3.8% | | 3.4% | | 2.8% | 9 | | | | |

| Pedestrian Volumes | les | | | | | Collin. |
|--------------------|-----------|------|------|------|------|---------|
| | | 4:00 | 4:15 | 4:30 | 4:45 | Ped |
| APPROACH | MOVEMENT | Ped | Ped | Ped | Ped | TOTAL |
| Eastbound | Crosswalk | 0 | 0 | 0 | 0 | 0 |
| Westbound | Crosswalk | 0 | 0 | 0 | 0 | 0 |
| Northbound | Crosswalk | 0 | 0 | 0 | 0 | 0 |
| Southbound | Crosswalk | 0 | 0 | 0 | 0 | 0 |
| | Total | 0 | 0 | 0 | 0 | |

| | | | | 0 | 0 | 0 | 0 | 1 |
|-------|------------------|------|----------|-----------|-----------|------------|------------|-------|
| | Confli. | Bike | TOTAL | | | | | |
| 0 | | 5:45 | bike | | | | | 0 |
| 0 | | 5:30 | bike | | | | | 0 |
| 0 | | 5:15 | bike | | | | | 0 |
| 0 | | 2:00 | bike | | | | | 0 |
| Total | | | MOVEMENT | Through | Through | Through | Through | Total |
| | Bicycles Volumes | | APPROACH | Eastbound | Westbound | Northbound | Southbound | |

| torics . | | |
|----------|--|--|

| | 111 |
|-------------------|----------------------------------|
| Truck Vehicle | 11. |
| ΤT | All Vehicles fine classification |
| | All Venicles |
| ehicle | Toward Light |
| Passenger Vehicle | |

Hwy 2 & Technology Blvd

PROJECT: WCE Bush BSP JOB NO. 19-15 INTERSECTION: Highway 2

Technology Blvd oŏ

TRAFFIC COUNT REDUCTION WORKSHEET

| Counter | Counter | | | | | | | | | AM PE | AM PEAK HOURS | JRS | | | L w | mail: b | email: beng@trfcnts.com | nts.com | | 3 | £ Surveys™ | € Surveys ™ | |
|---------------------------|------------|----------|--------|---------|-------|---------|------|---------|---------|-------|----------------------------|--------|---------|--------|---------|---------|-------------------------|---------|---------|-------|------------|-------------|---------|
| Miovision | BNG | | | | | | | | | 1 | 15 Minute Period Beginning | Period | Begin | @ Buin | | | | ŀ | | | | | |
| APPROACH | MOVEMENT | 6:30 AM | .9 | 6:45 AM | 7:0 | 7:00 AM | 7:1 | 7:15 AM | 7:30 AM | AM | 7:45 AM | AM | 8:00 AM | M | 8:15 AM | M | 8:30 AM | - | 8:45 AM | - | 9:00 AM | | 9:15 AM |
| | | pass trk | pass | trk | pass | trk | pass | trk | pass | trk | pass t | trk | pass t | trk | pass tr | trk | pass trk | pass | s trk | ba | pass trk | pass | s trk |
| Eastbound | Left | 0 | 0 | 0 | 0 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 |
| | Through | 243 | 12 217 | 7 20 | 191 | 11 | 296 | 20 | 315 | 24 | 267 | 16 | 207 | 17 | 212 | 17 | 205 | 18 | 181 | 28 | 195 | | 171 26 |
| | Right | 1 | 0 | 1 0 | 0 0 | 0 | .2 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 3 | 0 | က | 0 | 0 | 0 | 2 | 0 | 0 |
| | App. Total | 244 | 12 218 | 8 20 | 191 | 11 | 298 | 20 | 315 | 24 | 273 | 16 | 207 | 17 | 215 | 17 | 208 | 23 1 | 181 | 28 | 197 | 13 | 171 26 |
| | Pct Trucks | 0.047 | 17 | 0.084 | + | 0.054 | | 0.063 | | 0.071 | | 0.055 | | 920.0 | | 0.073 | | 0.1 | 0.1 | 0.134 | 0. | 0.062 | 0.132 |
| Westbound | Left | 4 | 0 | 4 | 0 8 | 1 | 10 | 0 | 6 | 0 | 17 | 0 | 20 | 0 | 7 | 0 | 2 | 0 | 80 | 0 | 4 | 0 | 4 |
| | Through | 321 | 10 303 | | 7 250 | 14 | 255 | 16 | 243 | 21 | 226 | 24 | 188 | 28 | 221 | 41 | 232 | 21 | 213 | 22 | 175 | 18 | 174 20 |
| | Right | 0 | 0 | 0 | 0 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | App. Total | 325 | 10 307 | 1 2 | 7 258 | 15 | 265 | 16 | 252 | 21 | 243 | 24 | 208 | 28 | 228 | 41 | 239 | 21 2 | 221 | 22 | 179 | 18 | 178 20 |
| | Pct Trucks | 0.03 | 33 | 0.022 | 2 | 0.055 | | 0.057 | | 0.077 | | 60.0 | | 0.119 | | 0.152 | 0. | 0.081 | - | 0.091 | 0 | 0.091 | 0.101 |
| Northbound | Left | 0 | 0 | 0 | 0 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Through | 0 | 0 | 0 | 0 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Right | 0 | 0 | 0 | 0 2 | 0 | 2 | 0 | 1 | 0 | 2 | 0 | 9 | 0 | 0 | 0 | 8 | 0 | - | 0 | 2 | 0 | 2 |
| | App. Total | 0 | 0 | 0 | 0 2 | 0 | | 0 | 1 | 0 | 2 | 0 | 9 | 0 | 0 | 0 | 3 | 0 | - | 0 | 2 | 0 | 2 |
| | Pct Trucks | | | | | 0 | | 0 | | 0 | | 0 | | 0 | | | | 0 | | 0 | | 0 | |
| Southbound | Left | 0 | 0 | 0 | 0 (| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Through | 0 | 0 | 0 | 0 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Right | 0 | 0 | 0 | 0 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | App. Total | 0 | 0 | 0 | 0 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Pct Trucks | | | | | | | | | | | | | | | - | | | | - | - | | L |
| Total Intersection Volume | Volume | 269 | 22 52 | 525 27 | 451 | 26 | 595 | 36 | 568 | 45 | 518 | 40 | 421 | 45 | 443 | 28 | 450 | 44 4 | 403 | 20 | 378 | 31 3 | 351 46 |
| Intersection Pct Trucks | riicks | 3.7% | | 4 0% | 7 | 5 5% | 8 | 8 0% | 70 E L | 70 | 706 4 | 7/ | 702 0 | 7 | 11 60% | 70 | 8 0% | | 11 00% | - | 7 60/ | - | 14 60/ |

| Pedestrian Volumes | mes | | | | - | 5 Minu | te Peric | 15 Minute Period Beginning @ | nning (| 6 | | | |
|--------------------|-----------|------|------|------|------|--------|----------|------------------------------|---------|------|------|------|------|
| APPROACH | MOVEMENT | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 8:15 | 8:30 | 8:45 | 9:00 | 9:15 |
| | | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped | Ped |
| Eastbound | Crosswalk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 |
| Westbound | Crosswalk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Northbound | Crosswalk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Southbound | Crosswalk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 |

| | Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
|-----------------|--|------|------|------|------|--------|----------|------------------------------|---------|------|------|------|------|
| | | | | | | | | | | | | | |
| Bicycle Volumes | | | | | | 5 Minu | te Perio | 15 Minute Period Beginning @ | nning (| 0 | | | |
| APPROACH | MOVEMENT 6:30 6:45 7:00 7:15 7:30 7:45 8:00 8:15 | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 8:15 | 8:30 | 8:45 | 9:00 | 9:15 |
| | | bike | bike | bike | bike | bike | bike | bike | bike | bike | bike | bike | bike |
| Eastbound | Through | | | | | | | | | | | | |
| Westbound | Through | | | | | | | | | | | | |
| Northbound | Through | | | | | | | | | | | | |
| Southbound | Through | | | | | | | | | | | | |
| | Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Intersection Total | on Total | Pct |
|--------------------|----------|--------|
| One Hour Volumes | Volumes | Trucks |
| 6:30 AM | 2221 | 2.0% |
| 6:45 AM | 2243 | %0.9 |
| 7:00 AM | 2249 | 6.5% |
| 7:15 AM | 2238 | 7.4% |
| 7:30 AM | 2138 | 8.8% |
| 7:45 AM | 2019 | 9.3% |
| 8:00 AM | 1914 | 10.3% |
| 8:15 AM | 1857 | 86.6 |
| 8:30 AM | 1753 | 9.8% |

Page 7 of 14

PROJECT: WCE Bush BSP JOB NO. 19-15 INTERSECTION: Highway 2

Technology Blvd

త

Data Transfer Intersection No.

| Counter Miovision | Counter Analyst Miovision BNG | | | | AM PEAK HOUR BREAKDOWN | AM PEAK HOUR BREAKDOWN | EAKDOWN | | Phone: (50 email: ben | Phone: (509) 951-1851 email: beng@trfcnts.com | 51 50m | © Surveys | E Surveys |
|---------------------------|-------------------------------|------|----------|-------|------------------------|------------------------|----------|------|-----------------------|--|-----------|-----------|-----------|
| APPROACH | MOVEMENT | 7 | 7:00 AM | 7: | 7:15 AM | 7:3 | 7:30 AM | 7:4 | 7:45 AM | | | Pct | App |
| | | pass | trk | pass | trk | pass | trk | pass | trk | TOTAL | P.H.F. | Trucks | Dist |
| Eastbound | Left | | 0 0 | 1 | 0 | 0 | 0 0 | 0 | 0 | | 0 | | 0.00% |
| | Through | - | 191 | 296 | 36 20 | 315 | 5 24 | 267 | 16 | 1140 | 0.84 | %9 | 99.30% |
| | Right | | 0 0 | | 2 (| 0 | 0 | 9 | 0 | | 8 0.33 | %0 | 0.70% |
| | App. Total | - | 191 11 | 298 | 98 20 | 315 | 5 24 | 273 | 3 16 | 1148 | 8 0.85 | | |
| | Pct Trucks | | 0.054455 | 15 | 0.062893 | 3 | 0.070796 | | 0.055363 | | | | |
| Westbound | Left | | 8 | | 01 | 0 | 0 6 | 17 | 0 | 45 | 5 0.66 | 2% | 4.11% |
| | Through | 2 | 250 14 | 1 255 | 16 | 6 243 | 3 21 | 226 | 3 24 | 1049 | 9 0.97 | | 95.89% |
| | Right | | 0 0 | | 0 | 0 | 0 | 0 | 0 | 0 | C | | 0.00% |
| | App. Total | 2 | 258 15 | 5 265 | 35 16 | 6 252 | 2 21 | 243 | 3 24 | 1094 | 4 0.97 | | |
| | Pct Trucks | | 0.054945 | 16 | 0.05694 | 4 | 0.076923 | | 0.089888 | | | | |
| Northbound | Left | | 0 0 | | 0 | 0 | 0 0 | 0 | 0 | 0 | C | | 0.00% |
| | Through | | 0 0 | | 0 | 0 | 0 0 | 0 | 0 | 0 | 0 | | 0.00% |
| | Right | | 2 0 | | 2 | C | 1 | 2 | 0 | 7 | 7 0.88 | %0 | 100.00% |
| | App. Total | | 2 0 | | 2 (| 0 | 0 | 2 | 0 | 7 | 7 0.88 | | |
| | Pct Trucks | | 0 | | | 0 | 0 | | 0 | | | | |
| Southbound | Left | | 0 0 | | 0 | 0 | 0 0 | 0 | 0 | 0 | 0 | | |
| | Through | | 0 0 | | 0 | 0 | 0 0 | 0 | 0 | 0 | C | | |
| | Right | | 0 0 | | 0 | 0 | 0 0 | 0 | 0 | 0 | 0 | | |
| | App. Total | | 0 0 | | 0 | 0 | 0 0 | 0 | 0 0 | 0 | C | | |
| | Pct Trucks | | | | | | | | | | | | |
| Total Intersection Volume | Volume 1 | 4 | 451 26 | 595 | 36 | 568 | 8 45 | 518 | 1 40 | 2249 | 9 0.92 | 7% | |
| Intersection Dot Trucks | Trucks | | 5.5% | | %0.9 | .0 | 7.3% | | 7.2% | | | | |

| fli. | | AL | 0 | 0 | 0 | 0 | |
|--------------------|------|----------|-----------|-----------|------------|------------|-------|
| Confli. | Ped | TOTAL | L | | | | L |
| | 7:45 | Ped | 0 | 0 | 0 | 0 | 0 |
| | 7:30 | Ped | 0 | 0 | 0 | 0 | 0 |
| | 7:15 | Ped | 0 | 0 | 0 | 0 | 0 |
| | 7:00 | Ped | 0 | 0 | 0 | 0 | 0 |
| Se | | MOVEMENT | Crosswalk | Crosswalk | Crosswalk | Crosswalk | Total |
| Pedestrian Volumes | | APPROACH | Eastbound | Westbound | Northbound | Southbound | |

| | | 0 | 0 | 0 | 0 | 1 | | | | 0 | 0 | 0 | 0 | 1 |
|------|----------|-----------|-----------|------------|------------|-------|------------------|------|----------|-----------|-----------|------------|------------|-------|
| Ped | TOTAL | | | | | | Confli. | Bike | TOTAL | | | | | |
| 1.45 | Ped | 0 | 0 | 0 | 0 | 0 | | 7:45 | bike | | | | | 0 |
| 05.7 | Ped | 0 | 0 | 0 | 0 | 0 | | 7:30 | bike | | | | | 0 |
| 01.7 | Ped | 0 | 0 | 0 | 0 | 0 | | 7:15 | bike | | | | | 0 |
| 00.7 | Ped | 0 | 0 | 0 | 0 | 0 | | 7:00 | bike | | | | | 0 |
| | MOVEMENT | Crosswalk | Crosswalk | Crosswalk | Crosswalk | Total | | | MOVEMENT | Through | Through | Through | Through | Total |
| | APPROACH | Eastbound | Westbound | Northbound | Southbound | | Bicycles Volumes | | APPROACH | Eastbound | Westbound | Northbound | Southbound | |

| ncation | Truck Vehicle | Targette Control | classificationi |
|----------------------------------|-------------------|------------------|-----------------------------|
| Miovision venicle classification | Passenger Vehicle | Sudit Sudit | All Vehicles ine classifica |
| | Passeng | | |

PROJECT: WCE Bush BSP

JOB NO. 19-15

Highway 2 INTERSECTION:

5/21/2019

DATE OF COUNT.

Technology Blvd ٥ŏ

TRAFFIC COUNT REDUCTION WORKSHEET

Phone: (509) 951-1851 email: beng@trfcnts.com

Traffic Counts & Surveys...<

| Counter | Analyst | | | | | | | | | | PM PE | PM PEAK HOURS | JRS | | | | mail: b | email: beng@trfcnts.com | ints.co | m | යා | & Surveys | reys. | 1 / m | |
|---------------------------|------------|------|---------|------|---------|---------|-------|---------|-------|---------|-------|------------------------------|---------|---------|---------|---------|---------|-------------------------|---------|----------|-------|--------------|-----------|-------------------|-------------------|
| Miovision | BNG | | | | | | | | | | - | 15 Minute Period Beginning @ | e Perio | d Begin | ining @ | | | | | | | | | | |
| APPROACH | MOVEMENT | | 3:30 PM | 3:45 | 3:45 PM | 4:00 PM | PM (| 4:15 PM | PM | 4:30 PM | PM | 4:45 PM | PM | 5:00 PM | PM | 5:15 PM | Md | 5:30 PM | 5 | 5:45 PM | Mc | 6:00 PM | PM | 6:15 PM | PM |
| | | pass | trk | pass | trk | pass | trk | pass | trk | pass | trk | pass | trk | pass | trk | pass t | trk | pass trk | | pass trk | | pass | ţ | pass | trk |
| Eastbound | Left | | 0 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ٢ | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Through | 308 | 3 21 | 403 | 20 | 428 | 15 | 419 | 20 | 380 | 17 | 419 | 16 | 357 | 12 | 323 | 11 | 282 | 10 | 252 | 16 | 231 | 00 | 222 | 13 |
| | Right | | 0 0 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | App. Total | 308 | 3 21 | 403 | 20 | 431 | 15 | 420 | 20 | 380 | 17 | 420 | 16 | 357 | 12 | 324 | 11 | 282 | 13 | 252 | 16 | 231 | 80 | 222 | 13 |
| | Pct Trucks | | 0.064 | | 0.047 | | 0.034 | | 0.045 | | 0.043 | | 0.037 | | 0.033 | | 0.033 | 0 | 0.044 | | 90.0 | | 0.033 | | 0.055 |
| Westbound | Left | | 2 | 4 | 0 | 2 | 0 | 1 | 0 | 4 | 0 | 5 | 0 | 2 | 0 | 2 | 0 | က | 0 | 8 | 0 | 0 | 0 | 2 | 0 |
| | Through | 315 | 5 13 | 291 | 12 | 317 | 20 | 321 | 11 | 315 | 6 | 355 | 7 | 300 | 6 | 363 | 5 | 352 | 9 | 271 | က | 291 | 80 | 238 | 3 |
| | Right | | 0 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | App. Total | 317 | 7 14 | 295 | 12 | 319 | 20 | 322 | 11 | 319 | 6 | 360 | 7 | 302 | 6 | 365 | 5 | 355 | 9 | 274 | 3 | 291 | 80 | 240 | 3 |
| | Pct Trucks | | 0.042 | | 0.039 | | 0.059 | | 0.033 | | 0.027 | | 0.019 | | 0.029 | | 0.014 | 0 | 0.017 | | 0.011 | | 0.027 | | 0.012 |
| Northbound | Left | _ | 0 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 2 | 0 | 2 | 0 | + | 0 | - | 0 | 0 | 0 | 0 | 0 |
| | Through | | 0 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Right | | 9 | 7 | 0 | 16 | 0 | 10 | 0 | 11 | 1 | 14 | 0 | 26 | 0 | 15 | 0 | 7 | 0 | 5 | 0 | 2 | 0 | m | 0 |
| | App. Total | | 0 9 | 7 | 0 | 17 | 0 | 11 | 0 | 11 | 1 | 17 | 0 | 28 | 0 | 17 | 0 | 80 | 0 | 9 | 0 | 2 | 0 | 3 | 0 |
| | Pct Trucks | | 0 | | 0 | | 0 | | 0 | | 0.083 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| Southbound | Left | | 0 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Through | | 0 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Right | | 0 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | App. Total | | 0 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Pct Trucks | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Intersection Volume | Volume | 631 | 35 | 705 | 32 | 767 | 35 | 753 | 31 | 710 | 27 | 797 | 23 | 687 | 21 | 902 | 16 | 645 | 19 | 532 | 19 | 524 | 16 | 465 | 16 |
| Intersection Pct Trucks | rucks | 5 | 5.3% | 4.3 | 4.3% | 4.4 | 4.4% | 4.0% | %(| 3.7% | % | 2.8% | % | 3.0% | % | 2.2 | % | 2.9% | | 3.4% | 9 | 3.0 | % | 3.3% | % |
| Intersection Pct T | rucks | 5 | 3% | | %8 | | 4% | 4.0 | | 3.7 | | 2.8 | | 3.0 | - 1 | 1 1 | 2.2% | % | 0 01 %3 | 2.9% | 2.9% | 2% 2.9% 3.4% | 2.9% 3.4% | 2% 2.9% 3.4% 3.0% | 2% 2.9% 3.4% 3.0% |

| | | | ľ | | | | M | | ľ | | |
|------------------------------|------------------|---------|-----------|-----------|-----------|-----------|---------|---------|------------------------------|----------|------|
| on Total | Volumes | 2989 | 3060 | 3143 | 3049 | 2987 | 2914 | 2645 | 2477 | 2236 | |
| Intersection Total | One Hour Volumes | 3:30 PM | 3:45 PM | 4:00 PM | 4:15 PM | 4:30 PM | 4:45 PM | 5:00 PM | 5:15 PM | 5:30 PM | |
| | | | | | | | | | | | |
| | 6:15 | Ped | 1 | 0 | 0 | 0 | 1 | | | 6:15 | bike |
| | 00:9 | Ped | 0 | 0 | 0 | 0 | 0 | | | 00:9 | bike |
| | 5:45 | Ped | 0 | 0 | 0 | 0 | 0 | | | 5:45 | bike |
| | 5:30 | Ped | 0 | 0 | 0 | 0 | 0 | | | 5:30 | bike |
| ining @ | 5:15 | Ped | 0 | 0 | 0 | 0 | 0 | | ning @ | 5:15 | bike |
| d Begin | 5:00 | Ped | 0 | 0 | 0 | 0 | 0 | | d Begin | 5:00 | bike |
| e Perio | 4:45 | Ped | 0 | 0 | 0 | 0 | 0 | | e Perio | 4:45 | bike |
| 15 Minute Period Beginning @ | 4:30 | Ped | 0 | 0 | 0 | 0 | 0 | | 15 Minute Period Beginning @ | 4:30 | bike |
| 1; | 4:15 | Ped | 0 | 0 | 0 | 0 | 0 | | 1,5 | 4:15 | bike |
| | 4:00 | Ped | 0 | 0 | 0 | 0 | 0 | | | 4:00 | bike |
| | 3:45 | Ped | 0 | 0 | 0 | 0 | 0 | | | 3:45 | bike |
| | 3:30 | Ped | 0 | 0 | 0 | 0 | 0 | | | 3:30 | bike |
| es | MOVEMENT | | Crosswalk | Crosswalk | Crosswalk | Crosswalk | Total | ı | | MOVEMENT | |
| | | | | | | | | | | | |

Pedestrian Volumes

APPROACH

Westbound Northbound Southbound

Eastbound

Bicycle Volumes

APPROACH

| Intersecti | Intersection Lotal | Pct |
|------------------|--------------------|--------|
| One Hour Volumes | Volumes | Trucks |
| 3:30 PM | 2989 | 4.4% |
| 3:45 PM | 3060 | 4.1% |
| 4:00 PM | 3143 | 3.7% |
| 4:15 PM | 3049 | 3.3% |
| 4:30 PM | 2987 | 2.9% |
| 4:45 PM | 2914 | 2.7% |
| 5:00 PM | 2645 | 2.8% |
| 5:15 PM | 2477 | 2.8% |
| 5:30 PM | 2236 | 3.1% |

0

0

0

0

0

0

0

0

0

0

0

Through Through Total

Northbound Southbound Westbound Eastbound

Through Through

WCE Bush BSP 19-15 PROJECT: JOB NO.

INTERSECTION: Highway 2

Technology Blvd ٥ŏ

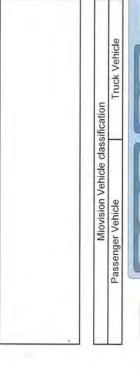
Data Transfer Intersection No.

Traffic Counts

| Counter | BNG | | | | | | | | | | U | mail: ben | email: beng@trfcnts.com | 110 | | 1 | |
|--------------------------|------------|------|---------|----------|------|---------|----------|------|----------|------|---------|-----------|-------------------------|--------|--------|------|--------|
| APPROACH | MOVEMENT | 4 | 4:00 PM | V | 4 | 4:15 PM | | 4. | 4:30 PM | | 4:45 PM | Md | | | Pct | Ap | a |
| | | pass | ţ | | pass | trk | | pass | trk | pass | | trk | TOTAL | P.H.F. | Trucks | Dist | - 75 |
| Eastbound | Left | | 0 | 0 | | 0 | 0 | | 0 | 0 | 1 | 0 | - | 0.25 | 90 9% | | 0.06% |
| | Through | 4 | 428 | 15 | 4 | 419 | 20 | 38 | 380 | 17 | 419 | 16 | 1714 | 10.97 | 7 4% | | 99.71% |
| | Right | | 3 | 0 | | - | 0 | | 0 | 0 | 0 | 0 | 4 | 0.33 | | | 0.23% |
| | App. Total | 4 | 431 | 15 | | 420 | 20 | 36 | 380 | 17 | 420 | 16 | 1719 | | | | |
| | Pct Trucks | | 0. | 0.033632 | | 0.0 | 0.045455 | | 0.042821 | 21 | | 0.036697 | | | | | |
| Westbound | Left | | 2 | 0 | | + | 0 | | 4 | 0 | 2 | 0 | 12 | 0.60 | %0 0 | | 0.88% |
| | Through | 3 | 317 | 20 | 3 | 321 | 11 | 31 | 315 | 6 | 355 | 7 | 1355 | 1 | | | 99.12% |
| | Right | | 0 | 0 | | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | | | | 0.00% |
| | App. Total | 3 | 319 | 20 | 3 | 322 | 11 | 31 | 319 | 6 | 360 | 7 | 1367 | 0.93 | 3 | | |
| | Pct Trucks | | 0 | 0.058997 | | 0.0 | 0.033033 | | 0.027439 | 39 | | 0.019074 | | | | | |
| Northbound | Left | | 1 | 0 | | - | 0 | | 0 | 0 | 3 | 0 | 5 | 0.42 | 2 0% | | 8.77% |
| | Through | | 0 | 0 | | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | | | | 0.00% |
| | Right | 1 | 16 | 0 | | 10 | 0 | | 11 | - | 14 | 0 | 52 | 0.81 | 1 2% | | 91.23% |
| | App. Total | | 17 | 0 | | 11 | 0 | | 11 | - | 17 | 0 | 57 | 0.84 | 4 | | |
| | Pct Trucks | | | 0 | | | 0 | | 0.083333 | 33 | | 0 | | | | | |
| Southbound | Left | | 0 | 0 | | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | | | | |
| | Through | | 0 | 0 | | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | | | | |
| | Right | | 0 | 0 | | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | | | | |
| | App. Total | | 0 | 0 | | 0 | 0 | | 0 | 0 | 0 | 0 | | 0 | | | |
| | Pct Trucks | | H | | | | | | | | | | | | 1 | | |
| otal Intersection Volume | 1 Volume | 76 | 191 | 35 | 7 | 753 | 31 | 710 | | 27 | 797 | 23 | 3143 | 96.0 | 6 4% | | |
| Intersection Pct Trucks | Trucks | | | 4.4% | | | 4.0% | | 3.7% | % | | 2.8% | | | | | |

| A:00 A:15 A:30 A:45 Ped Ped Troposavalk D D D D D D D D D | Pedestrian Volumes | es | | | | | Confli. |
|---|--------------------|-----------|------|------|------|------|---------|
| Ped Ped Ped Ped 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | 4:00 | 4:15 | 4:30 | 4:45 | Ped |
| Crosswalk 0 0 0 0 Total 0 0 0 0 | | MOVEMENT | Ped | Ped | Ped | Ped | TOTAL |
| Crosswalk 0 0 0 0 Crosswalk 0 0 0 0 Crosswalk 0 0 0 0 Total 0 0 0 0 | | Crosswalk | 0 | 0 | 0 | 0 | |
| Crosswalk 0 0 0 0 0 0 Crosswalk 0 0 0 0 0 0 O O O O O O O O O O O O O | | Crosswalk | 0 | 0 | 0 | 0 | |
| Crosswalk 0 0 0 0 0 0 Total 0 0 0 0 | | Crosswalk | 0 | 0 | 0 | 0 | |
| Total 0 0 0 0 0 | | Crosswalk | 0 | 0 | 0 | 0 | 0 |
| | | Total | 0 | 0 | 0 | 0 | |

Notes



| Bicycles Volumes | | | | | | Confli. |
|------------------|----------|------|------|------|------|---------|
| | | 4:00 | 4:15 | 4:30 | 4:45 | Bike |
| APPROACH | MOVEMENT | bike | bike | bike | bike | TOTAL |
| Eastbound | Through | | | | | 0 |
| Vestbound | Through | | | | | 0 |
| lorthbound | Through | | | | | 0 |
| Southbound | Through | | | | | 0 |
| | Total | 0 | 0 | 0 | 0 | |

BACKGROUND PROJECTS

Original Background Projects

INTERSECTION: Highway 2 & Flint Road AM PEAK HOUR

| AIM PEAN HOUR | | | | | | | | |
|---------------|--------|------------------|-----------------------------------|---------|----------|----------|-------|-------|
| Background | Hayden | Hunters Crossing | Hunters Crossing Hunters Crossing | Project | Sekani | Casino | North | |
| Trips | Homes | (North) | (South) | Rose | X Pointe | Phase 1A | 40 | Total |
| EBLT | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |
| EB THRU | 33 | 24 | 34 | 0 | 10 | 43 | 6 | 153 |
| EB RT | 3 | 2 | 3 | 0 | 2 | о | _ | 20 |
| | | | | | | | | |
| WB LT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | O |
| WB THRU | 11 | 6 | 11 | 3 | 2 | 29 | 18 | 114 |
| WB RT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| NB LT | 1 | 0 | 1 | 0 | _ | 12 | 0 | 15 |
| NB THRU | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NB RT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | |
| SBLT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ō |
| SB THRU | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SBRT | 0 | 10 | 0 | 3 | 0 | 2 | 2 | 7 |

Original Background Projects

INTERSECTION: Highway 2 & Hilton Access AM PEAK HOUR

| | Total | 0 | 153 | 0 | 0 | 114 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|----------|------|---------|-------|-------|---------|-------|-------|---------|-------|------|---------|------|
| North | 40 | 0 | 6 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Casino | Phase 1A | 0 | 43 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sekani | X Pointe | 0 | 10 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Project | Rose | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hunters Crossing | (South) | 0 | 34 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hunters Crossing Hunters Crossing | (North) | 0 | 24 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hayden | Homes | 0 | 33 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Background | Trips | EBLT | EB THRU | EB RT | WB LT | WB THRU | WB RT | NB LT | NB THRU | NB RT | SBLT | SB THRU | SBRT |

Original Background Projects

Highway 2 & Technology Boulevard INTERSECTION: AM PEAK HOUR

| | Total | 0 | 153 | 0 | 0 | 114 | 0 | 0 | 0 | 0 | 0 | 0 | |
|-----------------------------------|----------|------|---------|-------|------|---------|-------|------|---------|-------|------|---------|--|
| | ٢ | | | | | | | | L. | | | | |
| North | 40 | 0 | စ | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Casino | Phase 1A | 0 | 43 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sekani | X Pointe | 0 | 10 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Project | Rose | 0 | 0 | 0 | 0 | ဇ | 0 | 0 | 0 | 0 | 0 | 0 | |
| Hunters Crossing | (South) | 0 | 34 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Hunters Crossing Hunters Crossing | (North) | 0 | 24 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Hayden | Homes | 0 | 33 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Background | Trips | EBLT | EB THRU | EB RT | WBLT | WB THRU | WB RT | NBLT | NB THRU | NB RT | SBLT | SB THRU | |

Original Background Projects

INTERSECTION: Highway 2 & Flint Road PM PEAK HOUR

| | Total | တ | 191 | 26 | 0 | 213 | 0 | 39 | 0 | 0 | 0 | 0 | ĺ |
|-----------------------------------|----------|------|---------|-------|-------|---------|-------|------|---------|-------|------|---------|---|
| North | 40 | က | 26 | 7 | 0 | 34 | 0 | 13 | 0 | 0 | 0 | 0 | • |
| ž | | 3 | 70 | 15 | 0 | 9/ | 0 | 17 | 0 | 0 | 0 | 0 | ľ |
| Casino | Phase 1A | | | | | | | | | | | | |
| Sekani | X Pointe | 0 | 10 | 1 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | |
| Project | Rose | 3 | က | 0 | 0 | ဇ | 0 | 0 | 0 | 0 | 0 | 0 | |
| Hunters Crossing | (South) | 0 | 19 | _ | 0 | 34 | 0 | 8 | 0 | 0 | 0 | 0 | |
| Hunters Crossing Hunters Crossing | (North) | 0 | 14 | 1 | 0 | 24 | 0 | 2 | 0 | 0 | 0 | 0 | |
| Hayden | Homes | 0 | 19 | 1 | 0 | 33 | 0 | က | 0 | 0 | 0 | 0 | |
| Background | Trips | EBLT | EB THRU | EB RT | WB LT | WB THRU | WB RT | NBLT | NB THRU | NB RT | SBLT | SB THRU | |

Original Background Projects

INTERSECTION: Highway 2 & Hilton Access PM PEAK HOUR

| | _ | _ | _ | _ | _ | _ | <u></u> | | | | | _ | | | 7 |
|-----------------------------------|----------|-------|---------|-------|---|-------|---------|-------|-------|---------|-------|---|------|---------|---------|
| | Total | 0 | 191 | | | | 213 | | | 0 | | | 0 | ٥ | |
| North | 40 | 0 | 99 | 0 | | 0 | 34 | 0 | 0 | 0 | 0 | | 0 | 0 | C |
| Casino | Phase 1A | 0 | 70 | 0 | | 0 | 92 | 0 | 0 | 0 | 0 | | 0 | 0 | C |
| Sekani | X Pointe | 0 | 10 | Ö | | 0 | 6 | 0 | 0 | 0 | 0 | | 0 | 0 | C |
| Project | Rose | 0 | က | 0 | | 0 | 3 | 0 | 0 | 0 | 0 | | 0 | 0 | c |
| Hunters Crossing | (South) | 0 | 19 | 0 | | 0 | 34 | 0 | 0 | 0 | 0 | | 0 | 0 | 7 |
| Hunters Crossing Hunters Crossing | (North) | 0 | 14 | 0 | | 0 | 24 | 0 | 0 | 0 | 0 | | 0 | 0 | <u></u> |
| Hayden | Homes | 0 | 19 | 0 | | 0 | 33 | 0 | 0 | 0 | 0 | | 0 | 0 | _ |
| Background | Trips | EB LT | EB THRU | EB RT | | WB LT | WB THRU | WB RT | NB LT | UB THRU | NB RT | | SBLT | SB THRU | TA AS |

Original Background Projects

INTERSECTION: Highway 2 & Technology Boulevard PM PEAK HOUR

| | <u>a</u> | 0 | 191 | 0 | 0 | 213 | 0 | 0 | 0 | 0 | 0 | 0 | c |
|-----------------------------------|----------|------|---------|-------|------|---------|-------|-------|---------|-------|------|---------|------|
| | Total | | | | | | | | | | | | |
| North | 40 | 0 | 56 | 0 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | С |
| Casino | Phase 1A | 0 | 02 | 0 | 0 | 9/ | 0 | 0 | 0 | 0 | 0 | 0 | C |
| Sekani | X Pointe | 0 | 10 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | С |
| Project | Rose | 0 | ဇ | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hunters Crossing | (South) | 0 | 19 | 0 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hunters Crossing Hunters Crossing | (North) | 0 | 14 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hayden | Homes | 0 | 19 | 0 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Background | Trips | EBLT | EB THRU | EB RT | WBLT | WB THRU | WB RT | NB LT | NB THRU | NB RT | SBLT | SB THRU | SBRT |

LEVEL OF SERVICE CALCULATIONS AM & PM EXISTING CONDITIONS

| | * | - | * | 1 | + | * | 1 | 1 | - | 1 | + | 1 |
|-------------------------------|------------|------|-------|------|----------|-------------|---------|----------|-------|-------|-------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 7 | 44 | 7 | 44 | ^ | 7 | 44 | ^ | 7 | 7 | 1> | |
| Traffic Volume (vph) | 24 | 1039 | 62 | 17 | 1092 | 31 | 73 | 5 | 14 | 126 | 36 | 44 |
| Future Volume (vph) | 24 | 1039 | 62 | 17 | 1092 | 31 | 73 | 5 | 14 | 126 | 36 | 44 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | |
| Lane Util. Factor | 1.00 | 0.95 | 1.00 | 0.97 | 0.95 | 1.00 | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Frt | 1.00 | 1.00 | 0.85 | 1.00 | 1.00 | 0.85 | 1.00 | 1.00 | 0.85 | 1.00 | 0.92 | |
| FIt Protected | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | |
| Satd. Flow (prot) | 1492 | 3406 | 1615 | 3502 | 3374 | 1392 | 3273 | 1583 | 1509 | 1770 | 1570 | |
| Flt Permitted | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | |
| Satd. Flow (perm) | 1492 | 3406 | 1615 | 3502 | 3374 | 1392 | 3273 | 1583 | 1509 | 1770 | 1570 | |
| Peak-hour factor, PHF | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Adj. Flow (vph) | 26 | 1129 | 67 | 18 | 1187 | 34 | 79 | 5 | 15 | 137 | 39 | 48 |
| RTOR Reduction (vph) | 0 | 0 | 34 | 0 | 0 | 10 | 0 | 0 | 14 | 0 | 34 | 0 |
| Lane Group Flow (vph) | 26 | 1129 | 33 | 18 | 1187 | 24 | 79 | 5 | 1 | 137 | 53 | 0 |
| Heavy Vehicles (%) | 21% | 6% | 0% | 0% | 7% | 16% | 7% | 20% | 7% | 2% | 0% | 20% |
| Turn Type | Prot | NA | pm+ov | Prot | NA | pm+ov | Prot | NA | pm+ov | Prot | NA | |
| Protected Phases | 5 | 2 | 3 | 1 | 6 | 7 | 3 | 8 | 1 | 7 | 4 | |
| Permitted Phases | | | 2 | | | 6 | | | 8 | | | |
| Actuated Green, G (s) | 3.5 | 36.3 | 43.9 | 5.4 | 38.2 | 62.7 | 7.6 | 2.6 | 8.0 | 24.5 | 19.5 | |
| Effective Green, g (s) | 3.5 | 36.3 | 43.9 | 5.4 | 38.2 | 62.7 | 7.6 | 2.6 | 8.0 | 24.5 | 19.5 | |
| Actuated g/C Ratio | 0.04 | 0.41 | 0.49 | 0.06 | 0.43 | 0.71 | 0.09 | 0.03 | 0.09 | 0.28 | 0.22 | |
| Clearance Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 2.4 | 3.0 | 3.0 | 2.4 | |
| Lane Grp Cap (vph) | 58 | 1392 | 889 | 212 | 1451 | 1061 | 280 | 46 | 220 | 488 | 344 | |
| v/s Ratio Prot | c0.02 | 0.33 | 0.00 | 0.01 | c0.35 | 0.01 | 0.02 | 0.00 | 0.00 | c0.08 | c0.03 | |
| v/s Ratio Perm | | | 0.02 | | | 0.01 | | | 0.00 | | | |
| v/c Ratio | 0.45 | 0.81 | 0.04 | 0.08 | 0.82 | 0.02 | 0.28 | 0.11 | 0.01 | 0.28 | 0.16 | |
| Uniform Delay, d1 | 41.7 | 23.2 | 11.6 | 39.4 | 22.2 | 3.9 | 38.0 | 42.0 | 36.8 | 25.2 | 28.0 | |
| Progression Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Incremental Delay, d2 | 5.4 | 5.2 | 0.0 | 0.2 | 5.2 | 0.0 | 0.6 | 0.7 | 0.0 | 0.3 | 0.1 | |
| Delay (s) | 47.1 | 28.4 | 11.6 | 39.5 | 27.5 | 3.9 | 38.6 | 42.7 | 36.8 | 25.6 | 28.1 | |
| Level of Service | D | С | В | D | С | Α | D | D | D | С | С | |
| Approach Delay (s) | | 27.9 | | | 27.0 | | | 38.5 | | | 26.6 | |
| Approach LOS | | С | | | С | | | D | | | С | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2000 Control Delay | | | 27.8 | Н | CM 2000 | Level of S | Service | | С | | | |
| HCM 2000 Volume to Capa | city ratio | | 0.59 | | | | | | | | | |
| Actuated Cycle Length (s) | | | 88.8 | | | st time (s) | | | 20.0 | | | |
| Intersection Capacity Utiliza | ation | | 57.9% | 10 | CU Level | of Service | | | В | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| c Critical Lane Group | | | | | | | | | | | | |

| Intersection | | | | | | |
|------------------------|--------|-------|--------|------|---------|-------|
| Int Delay, s/veh | 0 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | 44 | 7 | 1102 | 44 | 1100 | 7 |
| | 1149 | 4 | 0 | 1047 | 0 | 6 |
| | 1149 | 4 | 0 | 1047 | 0 | 6 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | Free | - | | Otop | Yield |
| Storage Length | | 185 | | - | - | 0 |
| Veh in Median Storage, | | - | | 0 | 0 | - |
| Grade, % | 0 | - | | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| | 6 | 25 | 0 | 7 | | |
| Heavy Vehicles, % | | | | | 0 | 17 |
| Mvmt Flow | 1249 | 4 | 0 | 1138 | 0 | 7 |
| | | | | | | |
| Major/Minor M | lajor1 | N | Major2 | N | /linor1 | 11 |
| Conflicting Flow All | 0 | | - | - | | 625 |
| Stage 1 | | - | - | 120 | | - |
| Stage 2 | - | - | | - | - | - |
| Critical Hdwy | | _ | | | - 4 | 7.24 |
| Critical Hdwy Stg 1 | - | | | | | 1.27 |
| Critical Hdwy Stg 2 | 12.1 | | | | - 1/2 | |
| Follow-up Hdwy | | | | | | 3.47 |
| Pot Cap-1 Maneuver | - | 0 | 0 | - | 0 | 393 |
| | | 0 | 0 | | | |
| Stage 1 | - | | | - | 0 | - |
| Stage 2 | - | 0 | 0 | | 0 | - |
| Platoon blocked, % | | | | - | | 200 |
| Mov Cap-1 Maneuver | | - | - | - | - | 393 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | - | - | - | - 1 | - |
| Stage 2 | 7- | - | - | - | - | - |
| | | | | | | |
| Approach | EB | | WB | | NB | E N. |
| HCM Control Delay, s | 0 | | 0 | | 14.3 | |
| HCM LOS | U | | U | | В | |
| TIOW LOS | | | | | 0 | |
| | | - 21 | | | | |
| Minor Lane/Major Mvmt | N | NBLn1 | EBT | WBT | | |
| Capacity (veh/h) | | 393 | - | 1 | | |
| HCM Lane V/C Ratio | | 0.017 | - | - | | |
| HCM Control Delay (s) | | 14.3 | - | | | |
| HCM Lane LOS | | В | - | - | | |
| HCM 95th %tile Q(veh) | | 0.1 | | - | | |
| | | | | | | |

| Intersection | 33. V | | | | | |
|------------------------|----------|--------------|--------|----------|--------|------|
| Int Delay, s/veh | 0.3 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | 1 | | ሻ | ^ | Y | |
| Traffic Vol, veh/h | 1140 | 8 | 45 | 1049 | 0 | 7 |
| Future Vol, veh/h | 1140 | 8 | 45 | 1049 | 0 | 7 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | | None | | None |
| Storage Length | - | - | 100 | - | 0 | - |
| Veh in Median Storage | e,# 0 | - | | 0 | 0 | - |
| Grade, % | 0 | - | | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 6 | 0 | 2 | 7 | 0 | 0 |
| Mymt Flow | 1239 | 9 | 49 | 1140 | 0 | 8 |
| WWIICTIOW | 1200 | J | 70 | 1170 | 0 | U |
| | | | | | | |
| | Major1 | | Major2 | | Minor1 | |
| Conflicting Flow All | 0 | 0 | 1248 | 0 | 1912 | 624 |
| Stage 1 | - | - | - | - | 1244 | - |
| Stage 2 | - | - | | - | 668 | - |
| Critical Hdwy | - | 2 1 | 4.14 | | 6.8 | 6.9 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.8 | - |
| Critical Hdwy Stg 2 | - | - | | - | 5.8 | |
| Follow-up Hdwy | - | - | 2.22 | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | | 17.0 | 553 | - | 61 | 433 |
| Stage 1 | | - | - | - | 239 | - |
| Stage 2 | | | | - | 477 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | | 1 1/2 | 553 | - | 56 | 433 |
| Mov Cap-2 Maneuver | | - | - | | 164 | - |
| Stage 1 | | | | | 239 | |
| | | | | - | 435 | - |
| Stage 2 | _ | Real Control | · | _ | 430 | - |
| | | | | | | |
| Approach | EB | | WB | | NB | |
| HCM Control Delay, s | 0 | | 0.5 | | 13.5 | |
| HCM LOS | | | | | В | |
| | | | | | | |
| | | IDI. | | | 100 | 1415 |
| Minor Lane/Major Mvn | nt I | VBLn1 | EBT | EBR | WBL | WBT |
| Capacity (veh/h) | | 433 | - | - | 553 | - |
| HCM Lane V/C Ratio | | 0.018 | - | - | 0.088 | - |
| HCM Control Delay (s |) | 13.5 | - | - | | - |
| HCM Lane LOS | | В | - | - | В | - |
| HCM 95th %tile Q(veh | 1) | 0.1 | - | - | 0.3 | 10 |
| | | | | | | |

| | 1 | - | * | 1 | + | 1 | 1 | † | 1 | 1 | + | 1 |
|-------------------------------|------------|----------|-------|------|----------|-------------|---------|----------|-------|-------|------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 7 | ^ | 7 | 44 | ^ | 7 | 44 | ↑ | 7" | 19 | 1 | |
| Traffic Volume (vph) | 74 | 1555 | 98 | 22 | 1166 | 96 | 115 | 41 | 50 | 57 | 8 | 36 |
| Future Volume (vph) | 74 | 1555 | 98 | 22 | 1166 | 96 | 115 | 41 | 50 | 57 | 8 | 36 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | |
| Lane Util. Factor | 1.00 | 0.95 | 1.00 | 0.97 | 0.95 | 1.00 | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Frt | 1.00 | 1.00 | 0.85 | 1.00 | 1.00 | 0.85 | 1.00 | 1.00 | 0.85 | 1.00 | 0.88 | |
| Flt Protected | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | |
| Satd. Flow (prot) | 1583 | 3505 | 1568 | 3335 | 3505 | 1553 | 3367 | 1900 | 1615 | 1556 | 1447 | |
| Flt Permitted | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | |
| Satd. Flow (perm) | 1583 | 3505 | 1568 | 3335 | 3505 | 1553 | 3367 | 1900 | 1615 | 1556 | 1447 | |
| Peak-hour factor, PHF | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Adj. Flow (vph) | 79 | 1654 | 104 | 23 | 1240 | 102 | 122 | 44 | 53 | 61 | 9 | 38 |
| RTOR Reduction (vph) | 0 | 0 | 45 | 0 | 0 | 45 | 0 | 0 | 43 | 0 | 34 | 0 |
| Lane Group Flow (vph) | 79 | 1654 | 59 | 23 | 1240 | 57 | 122 | 44 | 10 | 61 | 13 | 0 |
| Heavy Vehicles (%) | 14% | 3% | 3% | 5% | 3% | 4% | 4% | 0% | 0% | 16% | 0% | 19% |
| Turn Type | Prot | NA | pm+ov | Prot | NA | pm+ov | Prot | NA | pm+ov | Prot | NA | |
| Protected Phases | 5 | 2 | 3 | 1 | 6 | 7 | 3 | 8 | 1 | 7 | 4 | |
| Permitted Phases | | | 2 | | | 6 | | | 8 | | | |
| Actuated Green, G (s) | 8.4 | 36.8 | 47.4 | 7.6 | 36.0 | 46.8 | 10.6 | 7.9 | 15.5 | 10.8 | 8.1 | |
| Effective Green, g (s) | 8.4 | 36.8 | 47.4 | 7.6 | 36.0 | 46.8 | 10.6 | 7.9 | 15.5 | 10.8 | 8.1 | |
| Actuated g/C Ratio | 0.10 | 0.44 | 0.57 | 0.09 | 0.43 | 0.56 | 0.13 | 0.10 | 0.19 | 0.13 | 0.10 | |
| Clearance Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 2.4 | 3.0 | 3.0 | 2.4 | |
| Lane Grp Cap (vph) | 160 | 1552 | 988 | 305 | 1518 | 968 | 429 | 180 | 398 | 202 | 141 | |
| v/s Ratio Prot | c0.05 | c0.47 | 0.01 | 0.01 | 0.35 | 0.01 | 0.04 | c0.02 | 0.00 | c0.04 | 0.01 | |
| v/s Ratio Perm | | | 0.03 | | | 0.03 | | | 0.00 | | | |
| v/c Ratio | 0.49 | 1.07 | 0.06 | 0.08 | 0.82 | 0.06 | 0.28 | 0.24 | 0.02 | 0.30 | 0.09 | |
| Uniform Delay, d1 | 35.3 | 23.1 | 7.9 | 34.5 | 20.7 | 8.2 | 32.8 | 34.8 | 27.6 | 32.7 | 34.1 | |
| Progression Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Incremental Delay, d2 | 2.4 | 42.6 | 0.0 | 0.1 | 5.0 | 0.0 | 0.4 | 0.5 | 0.0 | 0.8 | 0.2 | |
| Delay (s) | 37.7 | 65.8 | 8.0 | 34.6 | 25.6 | 8.2 | 33.2 | 35.3 | 27.6 | 33.6 | 34.3 | |
| Level of Service | D | E | Α | C | C | Α | C | D | C | C | C | |
| Approach Delay (s) | | 61.3 | | | 24.5 | | | 32.3 | | | 33.9 | |
| Approach LOS | | E | | | C | | | C | | | C | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2000 Control Delay | | | 44.4 | Н | CM 2000 | Level of S | Service | | D | | | |
| HCM 2000 Volume to Capa | city ratio | | 0.77 | | | | | | | | | |
| Actuated Cycle Length (s) | | | 83.1 | | | st time (s) | | | 20.0 | | | |
| Intersection Capacity Utiliza | ation | | 76.3% | IC | U Level | of Service | | | D | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| c Critical Lane Group | | | | | | | | | | | | |

| Intersection | | | | | E | |
|------------------------|----------|-------|--------|----------|---------|---------|
| Int Delay, s/veh | 0.1 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ^ | 7 | | ^ | | 7 |
| Traffic Vol, veh/h | 1692 | 1 | 0 | 1369 | 0 | 14 |
| Future Vol, veh/h | 1692 | 1 | 0 | 1369 | 0 | 14 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | 10-1 | Free | 7 . 4 | | - | Yield |
| Storage Length | | 185 | | - | | 0 |
| Veh in Median Storage | | - | | 0 | 0 | - |
| Grade, % | 0 | | | 0 | 0 | |
| Peak Hour Factor | 98 | 98 | 98 | 98 | 98 | 98 |
| Heavy Vehicles, % | 4 | 0 | 0 | 4 | 0 | 0 |
| Mymt Flow | 1727 | 1 | 0 | 1397 | 0 | 14 |
| WWIIIL FIOW | 1/2/ | | U | 1397 | U | 14 |
| | | | | | | |
| Major/Minor N | Major1 | N | Major2 | ٨ | /linor1 | ENGT IS |
| Conflicting Flow All | 0 | - | - | - | - | 864 |
| Stage 1 | - 2 | - | - | | - | |
| Stage 2 | - | - | | - | | - |
| Critical Hdwy | - | - | | - | - | 6.9 |
| Critical Hdwy Stg 1 | - | - | | - | | - |
| Critical Hdwy Stg 2 | | | | | - | |
| Follow-up Hdwy | | - | | | | 3.3 |
| Pot Cap-1 Maneuver | | 0 | 0 | | 0 | 301 |
| | - | | | | | |
| Stage 1 | - | 0 | 0 | | 0 | |
| Stage 2 | | 0 | 0 | | 0 | - |
| Platoon blocked, % | - | | | - | | 004 |
| Mov Cap-1 Maneuver | - | - | - | - | - | 301 |
| Mov Cap-2 Maneuver | - | - | | - | - | - |
| Stage 1 | - | | - | - | - 1 | - |
| Stage 2 | - | - | - | - | - | - |
| | | | | | | |
| Approach | EB | | WB | | NB | |
| HCM Control Delay, s | 0 | | 0 | | 17.6 | |
| HCM LOS | U | | U | | C | |
| TICIVI LOS | | | | | C | |
| | | | | | | |
| Minor Lane/Major Mvmt | t N | NBLn1 | EBT | WBT | | |
| Capacity (veh/h) | | 301 | | - | | |
| HCM Lane V/C Ratio | | 0.047 | - | - | | |
| HCM Control Delay (s) | | 17.6 | 1 72 | - | | |
| HCM Lane LOS | | С | - | - | | |
| HCM 95th %tile Q(veh) | | 0.1 | - | - | | |
| | | | | | | |

| Intersection | | | | | | No. |
|---|----------|-------|--------|------|--------|------|
| Int Delay, s/veh | 0.5 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | 1 | | Ť | 44 | W | |
| Traffic Vol, veh/h | 1714 | 4 | 12 | 1355 | 5 | 52 |
| Future Vol, veh/h | 1714 | 4 | 12 | 1355 | 5 | 52 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | 2401 | | - | None |
| Storage Length | | - | 100 | - | 0 | - |
| Veh in Median Storage | | | - | 0 | 0 | |
| Grade, % | 0 | | - | 0 | 0 | |
| Peak Hour Factor | 96 | 96 | 96 | 96 | 96 | 96 |
| Heavy Vehicles, % | 4 | 0 | 0 | 3 | 0 | 2 |
| Mymt Flow | 1785 | 4 | 13 | 1411 | 5 | 54 |
| WWIILFIOW | 1700 | 4 | 13 | 1411 | J | 04 |
| | | | | | | |
| Major/Minor N | Major1 | 1 | Major2 | 1 | Minor1 | |
| Conflicting Flow All | 0 | 0 | 1789 | 0 | 2519 | 895 |
| Stage 1 | - | - | - | | | |
| Stage 2 | - | - | - | - | 732 | - |
| Critical Hdwy | - | | 4.1 | - | 6.8 | 6.94 |
| Critical Hdwy Stg 1 | - | - | _ | | 5.8 | - |
| Critical Hdwy Stg 2 | | | | | 5.8 | 5 |
| Follow-up Hdwy | | _ | 2.2 | | 3.5 | 3.32 |
| Pot Cap-1 Maneuver | | 7-1-2 | 351 | | 24 | 284 |
| Stage 1 | - | _ | - | - | 122 | 204 |
| Stage 2 | 34523 | | | | 442 | |
| Platoon blocked, % | | - | | | 442 | |
| | | - | 351 | | 22 | 284 |
| Mov Cap-1 Maneuver | - | - 5 | | - | 23 | |
| Mov Cap-2 Maneuver | | - | | | 94 | |
| Stage 1 | - | - | | - | 122 | |
| Stage 2 | - | - | - | - | 426 | - |
| | | | | | | |
| Approach | EB | 1 - 1 | WB | 7/1 | NB | |
| HCM Control Delay, s | 0 | | 0.1 | | 24.8 | |
| HCM LOS | U | | 0.1 | | C | |
| TION LOS | | | | | C | |
| | | | | | | |
| Minor Lane/Major Mvm | t 1 | VBLn1 | EBT | EBR | WBL | WBT |
| Capacity (veh/h) | | 241 | | - | 351 | - |
| HCM Lane V/C Ratio | | 0.246 | - | - | 0.036 | - |
| HCM Control Delay (s) | | 24.8 | - 12 | - | 15.6 | - |
| HCM Lane LOS | | С | - | - | С | - |
| HCM 95th %tile Q(veh) | | 0.9 | | | 0.1 | - |
| (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | |

YEAR 2025

LEVEL OF SERVICE CALCULATIONS AM & PM WITHOUT PROJECT, WITH BACKGROUND

| | 1 | - | + | 1 | + | | 1 | 1 | - | 1 | + | 1 |
|--------------------------------|------------|----------|-------|------|----------|------------|---------|----------|-------|-------|-------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 7 | ^ | 7 | 14 | ^ | 7 | 44 | ↑ | 7 | 7 | 1 | |
| Traffic Volume (vph) | 27 | 1256 | 86 | 18 | 1273 | 33 | 92 | 5 | 15 | 134 | 38 | 54 |
| Future Volume (vph) | 27 | 1256 | 86 | 18 | 1273 | 33 | 92 | 5 | 15 | 134 | 38 | 54 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | |
| Lane Util. Factor | 1.00 | 0.95 | 1.00 | 0.97 | 0.95 | 1.00 | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Frt | 1.00 | 1.00 | 0.85 | 1.00 | 1.00 | 0.85 | 1.00 | 1.00 | 0.85 | 1.00 | 0.91 | |
| Fit Protected | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | |
| Satd. Flow (prot) | 1492 | 3406 | 1615 | 3502 | 3374 | 1392 | 3273 | 1583 | 1509 | 1770 | 1549 | |
| Flt Permitted | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | |
| Satd. Flow (perm) | 1492 | 3406 | 1615 | 3502 | 3374 | 1392 | 3273 | 1583 | 1509 | 1770 | 1549 | |
| Peak-hour factor, PHF | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Adj. Flow (vph) | 29 | 1365 | 93 | 20 | 1384 | 36 | 100 | 5 | 16 | 146 | 41 | 59 |
| RTOR Reduction (vph) | 0 | 0 | 43 | 0 | 0 | 11 | 0 | 0 | 15 | 0 | 41 | 0 |
| Lane Group Flow (vph) | 29 | 1365 | 50 | 20 | 1384 | 25 | 100 | 5 | 1 | 146 | 59 | 0 |
| Heavy Vehicles (%) | 21% | 6% | 0% | 0% | 7% | 16% | 7% | 20% | 7% | 2% | 0% | 20% |
| Turn Type | Prot | NA | pm+ov | Prot | NA | pm+ov | Prot | NA | pm+ov | Prot | NA | |
| Protected Phases | 5 | 2 | 3 | 1 | 6 | 7 | 3 | 8 | 1 | 7 | 4 | |
| Permitted Phases | | | 2 | | | 6 | | | 8 | | | |
| Actuated Green, G (s) | 3.5 | 36.8 | 47.3 | 5.3 | 38.6 | 61.9 | 10.5 | 2.5 | 7.8 | 23.3 | 15.3 | |
| Effective Green, g (s) | 3.5 | 36.8 | 47.3 | 5.3 | 38.6 | 61.9 | 10.5 | 2.5 | 7.8 | 23.3 | 15.3 | |
| Actuated g/C Ratio | 0.04 | 0.42 | 0.54 | 0.06 | 0.44 | 0.70 | 0.12 | 0.03 | 0.09 | 0.27 | 0.17 | |
| Clearance Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 2.4 | 3.0 | 3.0 | 2.4 | |
| Lane Grp Cap (vph) | 59 | 1425 | 960 | 211 | 1481 | 1059 | 390 | 45 | 219 | 469 | 269 | |
| v/s Ratio Prot | c0.02 | 0.40 | 0.01 | 0.01 | c0.41 | 0.01 | 0.03 | 0.00 | 0.00 | c0.08 | c0.04 | |
| v/s Ratio Perm | | | 0.02 | | | 0.01 | | | 0.00 | | | |
| v/c Ratio | 0.49 | 0.96 | 0.05 | 0.09 | 0.93 | 0.02 | 0.26 | 0.11 | 0.01 | 0.31 | 0.22 | |
| Uniform Delay, d1 | 41.3 | 24.8 | 9.6 | 39.0 | 23.4 | 3.9 | 35.2 | 41.6 | 36.5 | 25.9 | 31.2 | |
| Progression Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Incremental Delay, d2 | 6.3 | 15.7 | 0.0 | 0.2 | 12.2 | 0.0 | 0.3 | 0.7 | 0.0 | 0.4 | 0.3 | |
| Delay (s) | 47.6 | 40.5 | 9.7 | 39.2 | 35.7 | 3.9 | 35.5 | 42.3 | 36.5 | 26.3 | 31.4 | |
| Level of Service | D | D | Α | D | D | Α | D | D | D | C | C | |
| Approach Delay (s) | | 38.7 | | | 35.0 | | | 35.9 | | | 28.4 | |
| Approach LOS | | D | | | С | | | D | | | C | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2000 Control Delay | | | 36.2 | Н | CM 2000 | Level of | Service | | D | | | |
| HCM 2000 Volume to Capac | city ratio | | 0.68 | | | | | | | | | |
| Actuated Cycle Length (s) | | | 87.9 | | | t time (s) | | | 20.0 | | | |
| Intersection Capacity Utilizar | tion | | 63.9% | IC | CU Level | of Service | | | В | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| c Critical Lane Group | | | | | | | | | | | | |

| | 1 | - | - | 1 | + | * | 1 | † | - | 1 | + | 1 |
|-------------------------------|------------|----------|-------|------|------------|------------|---------|----------|------|-------|-------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 7 | ^ | 7 | 77 | 44 | 7 | 14.54 | ↑ | 7 | * | f) | |
| Traffic Volume (vph) | 27 | 1256 | 86 | 18 | 1273 | 33 | 92 | 5 | 15 | 134 | 38 | 54 |
| Future Volume (vph) | 27 | 1256 | 86 | 18 | 1273 | 33 | 92 | 5 | 15 | 134 | 38 | 54 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | |
| Lane Util. Factor | 1.00 | 0.95 | 1.00 | 0.97 | 0.95 | 1.00 | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Frt | 1.00 | 1.00 | 0.85 | 1.00 | 1.00 | 0.85 | 1.00 | 1.00 | 0.85 | 1.00 | 0.91 | |
| Flt Protected | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | |
| Satd. Flow (prot) | 1492 | 3406 | 1615 | 3502 | 3374 | 1392 | 3273 | 1583 | 1509 | 1770 | 1549 | |
| Flt Permitted | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | |
| Satd. Flow (perm) | 1492 | 3406 | 1615 | 3502 | 3374 | 1392 | 3273 | 1583 | 1509 | 1770 | 1549 | |
| Peak-hour factor, PHF | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Adj. Flow (vph) | 29 | 1365 | 93 | 20 | 1384 | 36 | 100 | 5 | 16 | 146 | 41 | 59 |
| RTOR Reduction (vph) | 0 | 0 | 42 | 0 | 0 | 16 | 0 | 0 | 15 | 0 | 47 | 0 |
| Lane Group Flow (vph) | 29 | 1365 | 51 | 20 | 1384 | 20 | 100 | 5 | 1 | 146 | 53 | 0 |
| Heavy Vehicles (%) | 21% | 6% | 0% | 0% | 7% | 16% | 7% | 20% | 7% | 2% | 0% | 20% |
| Turn Type | Prot | NA | Perm | Prot | NA | Perm | Prot | NA | Perm | Prot | NA | |
| Protected Phases | 5 | 2 | | 1 | 6 | | 3 | 8 | | 7 | 4 | |
| Permitted Phases | | | 2 | | | 6 | | | 8 | | | |
| Actuated Green, G (s) | 6.2 | 68.2 | 68.2 | 8.8 | 70.8 | 70.8 | 10.0 | 6.0 | 6.0 | 22.0 | 18.0 | |
| Effective Green, g (s) | 6.2 | 68.2 | 68.2 | 8.8 | 70.8 | 70.8 | 10.0 | 6.0 | 6.0 | 22.0 | 18.0 | |
| Actuated g/C Ratio | 0.05 | 0.55 | 0.55 | 0.07 | 0.57 | 0.57 | 0.08 | 0.05 | 0.05 | 0.18 | 0.14 | |
| Clearance Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 2.4 | 2.4 | 3.0 | 2.4 | |
| Lane Grp Cap (vph) | 74 | 1858 | 881 | 246 | 1911 | 788 | 261 | 75 | 72 | 311 | 223 | |
| v/s Ratio Prot | 0.02 | c0.40 | | 0.01 | c0.41 | | 0.03 | 0.00 | | c0.08 | c0.03 | |
| v/s Ratio Perm | | | 0.03 | | | 0.01 | | | 0.00 | | | |
| v/c Ratio | 0.39 | 0.73 | 0.06 | 0.08 | 0.72 | 0.03 | 0.38 | 0.07 | 0.01 | 0.47 | 0.24 | |
| Uniform Delay, d1 | 57.6 | 21.5 | 13.3 | 54.3 | 19.9 | 11.9 | 54.6 | 56.8 | 56.7 | 46.3 | 47.4 | |
| Progression Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Incremental Delay, d2 | 3.4 | 2.6 | 0.1 | 0.1 | 2.4 | 0.1 | 0.9 | 0.2 | 0.0 | 1.1 | 0.4 | |
| Delay (s) | 61.0 | 24.2 | 13.4 | 54.5 | 22.3 | 12.0 | 55.5 | 57.1 | 56.7 | 47.4 | 47.8 | |
| Level of Service | E | С | В | D | С | В | E | E | Е | D | D | |
| Approach Delay (s) | | 24.2 | | | 22.5 | | | 55.7 | | | 47.5 | |
| Approach LOS | | С | | | С | | | E | | | D | |
| Intersection Summary | | | | | | | | | - 1 | | | |
| HCM 2000 Control Delay | | | 26.4 | Н | CM 2000 | Level of S | Service | | C | | | |
| HCM 2000 Volume to Capa | city ratio | | 0.67 | | | | | | | | | |
| Actuated Cycle Length (s) | | | 125.0 | | um of lost | | | | 20.0 | | | |
| Intersection Capacity Utiliza | tion | | 68.1% | IC | CU Level | of Service | | | C | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| c Critical Lane Group | | | | | | | | | | | | |

| Intersection | | ST. | 3.57 | | | Disk. |
|------------------------|----------|-------|-----------|----------|-----------|-------|
| Int Delay, s/veh | 0 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ^ | 7 | VVDL | ^ | NUL | 7 |
| Traffic Vol, veh/h | 1373 | 4 | 0 | 1225 | 0 | 6 |
| Future Vol, veh/h | 1373 | 4 | 0 | 1225 | 0 | 6 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | Free | riee - | None | Stop - | Yield |
| | | 185 | - | None | | 0 |
| Storage Length | | | | 0 | | |
| Veh in Median Storage, | | - | - | 0 | 0 | |
| Grade, % | 0 | - 00 | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 6 | 25 | 0 | 7 | 0 | 17 |
| Mvmt Flow | 1492 | 4 | 0 | 1332 | 0 | 7 |
| | | | | | | |
| Major/Minor N | /lajor1 | N | Major2 | N | /linor1 | |
| Conflicting Flow All | 0 | | - | - | - | 746 |
| Stage 1 | - | | | | | - 10 |
| Stage 2 | | | | - | | |
| Critical Hdwy | | | | | - 4 | 7.24 |
| Critical Hdwy Stg 1 | - | | - | | 198 | 1.24 |
| Critical Hdwy Stg 2 | - | | | - 54 | 19 92 | |
| | 01 E 050 | | _ | | - | 3.47 |
| Follow-up Hdwy | | | 0 | | | 325 |
| Pot Cap-1 Maneuver | - | 0 | | - | 0 | |
| Stage 1 | | 0 | 0 | - | 0 | - |
| Stage 2 | - | 0 | 0 | - | 0 | |
| Platoon blocked, % | - | | | - | | 005 |
| Mov Cap-1 Maneuver | | - | - | - | - | 325 |
| Mov Cap-2 Maneuver | - | - | | - | - | - |
| Stage 1 | - | | - | | - | - |
| Stage 2 | - | - | - | - | - | - |
| | | | | | | |
| Approach | EB | | WB | - 1 | NB | Mila |
| HCM Control Delay, s | 0 | | 0 | | 16.3 | |
| HCM LOS | U | | U | | C | |
| TIOW LOO | | | | | 0 | |
| | | | | | | |
| Minor Lane/Major Mvmt | 1 | VBLn1 | EBT | WBT | | |
| Capacity (veh/h) | | 325 | - | | | |
| HCM Lane V/C Ratio | | 0.02 | - | - | | |
| HCM Control Delay (s) | | 16.3 | - | 1000 | | |
| HCM Lane LOS | | С | - | - | | |
| | | 0.1 | - | 1 | | |
| HCM 95th %tile Q(veh) | | 0.1 | | | | |

| Intersection | | | 3.11 | | | |
|------------------------|----------|---------|---------------------|---|--------|----------------------|
| Int Delay, s/veh | 0.3 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | 1 | | * | ^ | ** | |
| Traffic Vol, veh/h | 1363 | 8 | 48 | 1228 | 0 | 7 |
| Future Vol, veh/h | 1363 | 8 | 48 | 1228 | 0 | 7 |
| Conflicting Peds, #/hr | | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | | - | | Stop - | None |
| | | NONE - | 100 | None - | 0 | NOTICE - |
| Storage Length | | | | | | |
| Veh in Median Storag | | | | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 6 | 0 | 2 | 7 | 0 | 0 |
| Mvmt Flow | 1482 | 9 | 52 | 1335 | 0 | 8 |
| | | | | | | |
| Major/Minor | Major1 | 1 | Major2 | | Minor1 | and the |
| Conflicting Flow All | 0 | 0 | 1491 | 0 | 2259 | 746 |
| Stage 1 | | | - | | | - |
| Stage 2 | | | - | - | 772 | - |
| Critical Hdwy | - | | 4.14 | 17.3 | 6.8 | 6.9 |
| Critical Hdwy Stg 1 | - | | 7.17 | | 5.8 | 0.0 |
| Critical Hdwy Stg 2 | | | Syl ¹ VE | | 5.8 | |
| Follow-up Hdwy | - | AN 1550 | 2.22 | _ | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | | | 446 | | 36 | 360 |
| | | | 440 | | 177 | |
| Stage 1 | | | | - | | |
| Stage 2 | - 1-5 | | - 2 | - | 422 | - |
| Platoon blocked, % | - | - | 110 | | 0.0 | 000 |
| Mov Cap-1 Maneuver | | | 446 | - | 32 | 360 |
| Mov Cap-2 Maneuver | - | - | - | - | 122 | - |
| Stage 1 | - | - | - | - | 177 | - |
| Stage 2 | - | - | - | - | 373 | |
| | | | | | | |
| Approach | EB | | WB | 1971 | NB | 5 |
| HCM Control Delay, s | 0 | - | 0.5 | CONTRACTOR OF THE PARTY OF THE | 15.2 | A PERSONAL PROPERTY. |
| HCM LOS | U | | 0.0 | | C | |
| HOW LOS | | | | | C | |
| | | | | | | |
| Minor Lane/Major Mvr | nt I | NBLn1 | EBT | EBR | WBL | WBT |
| Capacity (veh/h) | | 360 | | - | 446 | - |
| HCM Lane V/C Ratio | | 0.021 | - | - | 0.117 | - |
| HCM Control Delay (s |) | 15.2 | | | 14.1 | |
| HCM Lane LOS | | С | - | - | В | - 4 |
| HCM 95th %tile Q(veh | 1) | 0.1 | - | | 0.4 | W/1840 |
| | | | | | | |

| | 1 | - | * | 1 | - | 1 | 1 | 1 | - | 1 | + | 1 |
|-------------------------------|------------|-------|-------|------|-----------|------------|---------|----------|-------|------|-------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | * | 44 | 7 | 1,1 | ^ | 7 | 77 | ^ | 7 | 7 | 7 | |
| Traffic Volume (vph) | 88 | 1842 | 130 | 23 | 1451 | 102 | 161 | 44 | 53 | 61 | 8 | 46 |
| Future Volume (vph) | 88 | 1842 | 130 | 23 | 1451 | 102 | 161 | 44 | 53 | 61 | 8 | 46 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | |
| Lane Util. Factor | 1.00 | 0.95 | 1.00 | 0.97 | 0.95 | 1.00 | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Frt | 1.00 | 1.00 | 0.85 | 1.00 | 1.00 | 0.85 | 1.00 | 1.00 | 0.85 | 1.00 | 0.87 | |
| Flt Protected | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | |
| Satd. Flow (prot) | 1583 | 3505 | 1568 | 3335 | 3505 | 1553 | 3367 | 1900 | 1615 | 1556 | 1430 | |
| Flt Permitted | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | |
| Satd. Flow (perm) | 1583 | 3505 | 1568 | 3335 | 3505 | 1553 | 3367 | 1900 | 1615 | 1556 | 1430 | |
| Peak-hour factor, PHF | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Adj. Flow (vph) | 94 | 1960 | 138 | 24 | 1544 | 109 | 171 | 47 | 56 | 65 | 9 | 49 |
| RTOR Reduction (vph) | 0 | 0 | 53 | 0 | 0 | 46 | 0 | 0 | 46 | 0 | 42 | 0 |
| Lane Group Flow (vph) | 94 | 1960 | 85 | 24 | 1544 | 63 | 171 | 47 | 10 | 65 | 16 | 0 |
| Heavy Vehicles (%) | 14% | 3% | 3% | 5% | 3% | 4% | 4% | 0% | 0% | 16% | 0% | 19% |
| Turn Type | Prot | NA | pm+ov | Prot | NA | pm+ov | Prot | NA | pm+ov | Prot | NA | |
| Protected Phases | 5 | 2 | 3 | 1 | 6 | 7 | 3 | 8 | 1 | 7 | 4 | |
| Permitted Phases | | | 2 | | | 6 | | | 8 | | | |
| Actuated Green, G (s) | 8.8 | 37.1 | 48.3 | 7.3 | 35.6 | 50.5 | 11.2 | 8.3 | 15.6 | 14.9 | 12.0 | |
| Effective Green, g (s) | 8.8 | 37.1 | 48.3 | 7.3 | 35.6 | 50.5 | 11.2 | 8.3 | 15.6 | 14.9 | 12.0 | |
| Actuated g/C Ratio | 0.10 | 0.42 | 0.55 | 0.08 | 0.41 | 0.58 | 0.13 | 0.09 | 0.18 | 0.17 | 0.14 | |
| Clearance Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 2.4 | 3.0 | 3.0 | 2.4 | |
| Lane Grp Cap (vph) | 159 | 1484 | 954 | 277 | 1424 | 983 | 430 | 180 | 379 | 264 | 195 | |
| v/s Ratio Prot | c0.06 | c0.56 | 0.01 | 0.01 | 0.44 | 0.01 | c0.05 | c0.02 | 0.00 | 0.04 | c0.01 | |
| v/s Ratio Perm | | | 0.04 | | | 0.03 | | | 0.00 | | | |
| v/c Ratio | 0.59 | 1.32 | 0.09 | 0.09 | 1.08 | 0.06 | 0.40 | 0.26 | 0.03 | 0.25 | 0.08 | |
| Uniform Delay, d1 | 37.7 | 25.2 | 9.3 | 37.1 | 26.0 | 8.2 | 35.1 | 36.8 | 29.7 | 31.5 | 33.0 | |
| Progression Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Incremental Delay, d2 | 5.8 | 149.2 | 0.0 | 0.1 | 50.2 | 0.0 | 0.6 | 0.5 | 0.0 | 0.5 | 0.1 | |
| Delay (s) | 43.5 | 174.4 | 9.3 | 37.2 | 76.2 | 8.2 | 35.7 | 37.3 | 29.8 | 32.0 | 33.1 | |
| Level of Service | D | F | Α | D | E | Α | D | D | C | C | C | |
| Approach Delay (s) | | 158.4 | | | 71.2 | | | 34.8 | | | 32.5 | |
| Approach LOS | | F | | | E | | | С | | | С | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2000 Control Delay | | | 112.6 | Н | CM 2000 | Level of | Service | | F | | | |
| HCM 2000 Volume to Capa | city ratio | | 0.90 | | | | | | | | | |
| Actuated Cycle Length (s) | | | 87.6 | S | um of los | t time (s) | | | 20.0 | | | |
| Intersection Capacity Utiliza | ition | | 84.3% | | | of Service | | | Е | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| c Critical Lane Group | | | | | | | | | | | | |

| | * | - | 1 | 1 | + | * | 1 | † | 1 | 1 | | 1 |
|---------------------------------|----------|-------|-------|------|------------|------------|---------|----------|------|-------|---------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 19 | 44 | 7 | 44 | 44 | 7 | 14/4 | ↑ | 7 | N. | 1> | |
| Traffic Volume (vph) | 88 | 1842 | 130 | 23 | 1451 | 102 | 161 | 44 | 53 | 61 | 8 | 46 |
| Future Volume (vph) | 88 | 1842 | 130 | 23 | 1451 | 102 | 161 | 44 | 53 | 61 | 8 | 46 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | |
| Lane Util. Factor | 1.00 | 0.95 | 1.00 | 0.97 | 0.95 | 1.00 | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Frt | 1.00 | 1.00 | 0.85 | 1.00 | 1.00 | 0.85 | 1.00 | 1.00 | 0.85 | 1.00 | 0.87 | |
| FIt Protected | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | |
| Satd. Flow (prot) | 1583 | 3505 | 1568 | 3335 | 3505 | 1553 | 3367 | 1900 | 1615 | 1556 | 1430 | |
| FIt Permitted | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | |
| Satd. Flow (perm) | 1583 | 3505 | 1568 | 3335 | 3505 | 1553 | 3367 | 1900 | 1615 | 1556 | 1430 | |
| Peak-hour factor, PHF | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Adj. Flow (vph) | 94 | 1960 | 138 | 24 | 1544 | 109 | 171 | 47 | 56 | 65 | 9 | 49 |
| RTOR Reduction (vph) | 0 | 0 | 45 | 0 | 0 | 45 | 0 | 0 | 49 | 0 | 45 | 0 |
| Lane Group Flow (vph) | 94 | 1960 | 93 | 24 | 1544 | 64 | 171 | 47 | 7 | 65 | 13 | 0 |
| Heavy Vehicles (%) | 14% | 3% | 3% | 5% | 3% | 4% | 4% | 0% | 0% | 16% | 0% | 19% |
| Turn Type | Prot | NA | Perm | Prot | NA | Perm | Prot | NA | Perm | Prot | NA | |
| Protected Phases | 5 | 2 | | 1 | 6 | | 3 | 8 | | 7 | 4 | |
| Permitted Phases | | | 2 | | | 6 | | | 8 | | | |
| Actuated Green, G (s) | 15.6 | 97.0 | 97.0 | 6.0 | 87.4 | 87.4 | 14.0 | 18.0 | 18.0 | 8.0 | 12.0 | |
| Effective Green, g (s) | 15.6 | 97.0 | 97.0 | 6.0 | 87.4 | 87.4 | 14.0 | 18.0 | 18.0 | 8.0 | 12.0 | |
| Actuated g/C Ratio | 0.10 | 0.65 | 0.65 | 0.04 | 0.59 | 0.59 | 0.09 | 0.12 | 0.12 | 0.05 | 0.08 | |
| Clearance Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 2.4 | 2.4 | 3.0 | 2.4 | |
| Lane Grp Cap (vph) | 165 | 2281 | 1020 | 134 | 2055 | 910 | 316 | 229 | 195 | 83 | 115 | |
| v/s Ratio Prot | c0.06 | c0.56 | | 0.01 | 0.44 | | c0.05 | c0.02 | | c0.04 | 0.01 | |
| v/s Ratio Perm | | | 0.06 | | | 0.04 | | | 0.00 | | | |
| v/c Ratio | 0.57 | 0.86 | 0.09 | 0.18 | 0.75 | 0.07 | 0.54 | 0.21 | 0.03 | 0.78 | 0.11 | |
| Uniform Delay, d1 | 63.5 | 20.6 | 9.6 | 69.1 | 22.8 | 13.3 | 64.4 | 59.1 | 57.8 | 69.6 | 63.6 | |
| Progression Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Incremental Delay, d2 | 4.5 | 4.5 | 0.2 | 0.6 | 2.6 | 0.1 | 1.9 | 0.3 | 0.0 | 37.0 | 0.3 | |
| Delay (s) | 68.0 | 25.1 | 9.8 | 69.8 | 25.4 | 13.4 | 66.3 | 59.3 | 57.9 | 106.7 | 63.8 | |
| Level of Service | E | С | Α | E | C | В | E | E | Е | F | E | |
| Approach Delay (s) | | 26.0 | | | 25.2 | | | 63.4 | | | 86.5 | |
| Approach LOS | | С | | | С | | | Е | | | F | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2000 Control Delay | | | 29.8 | Н | CM 2000 | Level of | Service | | С | | | |
| HCM 2000 Volume to Capaci | ty ratio | | 0.77 | | | | | | | | | |
| Actuated Cycle Length (s) | | | 149.0 | Si | um of lost | time (s) | | | 20.0 | | | |
| Intersection Capacity Utilizati | on | | 84.3% | IC | U Level | of Service | | | E | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| c Critical Lane Group | | | | | | | | | | | | |

| Intersection | | g de la | 15 5 | | | |
|------------------------|----------|---------|--------|----------|---------|----------------|
| Int Delay, s/veh | 0.1 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ^ | 7 | | ^ | | 7 |
| Traffic Vol, veh/h | 1987 | 1 | 0 | | 0 | 15 |
| Future Vol, veh/h | 1987 | 1 | 0 | 1666 | 0 | 15 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | | Free | - | None | | Yield |
| Storage Length | | 185 | - | - | - | 0 |
| Veh in Median Storage, | ,# 0 | | - | 0 | 0 | - |
| Grade, % | 0 | | - | 0 | 0 | |
| Peak Hour Factor | 98 | 98 | 98 | 98 | 98 | 98 |
| Heavy Vehicles, % | 4 | 0 | 0 | 4 | 0 | 0 |
| Mvmt Flow | 2028 | 1 | 0 | 1700 | 0 | 15 |
| | | | | | | |
| MainuMinna | Antonia. | | 1-10 | | P | |
| | /lajor1 | | Major2 | | /linor1 | 1011 |
| Conflicting Flow All | 0 | - | - | - | - | 1014 |
| Stage 1 | - | - | - | 1 10 | - | - |
| Stage 2 | - | - | - | | | - |
| Critical Hdwy | - | - | - | - | • | 6.9 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | | - | |
| Follow-up Hdwy | - | - | - | - | | 3.3 |
| Pot Cap-1 Maneuver | - | 0 | 0 | - | 0 | 240 |
| Stage 1 | - | 0 | 0 | - | 0 | - |
| Stage 2 | - | 0 | 0 | - | 0 | - |
| Platoon blocked, % | - | | | - | | |
| Mov Cap-1 Maneuver | - | | | - | - | 240 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - |
| Stage 1 | - | 1 | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Mark State of the | | | | | | |
| Approach | EB | 10.00 | WB | Autor | NB | R. E. |
| HCM Control Delay, s | 0 | - | 0 | - | 21 | A STATE OF THE |
| HCM LOS | U | | U | | C | |
| HOW LOS | | | | | C | |
| | | | | | | |
| Minor Lane/Major Mvmt | t N | NBLn1 | EBT | WBT | | |
| Capacity (veh/h) | | 240 | | - | | |
| HCM Lane V/C Ratio | | 0.064 | - | - | | |
| HCM Control Delay (s) | | 21 | | | | |
| HCM Lane LOS | | С | - | - | | |
| HCM 95th %tile Q(veh) | | 0.2 | - | - | | |
| , | | | | | | |

| Intersection | - 139 | No. | | | 7,000 | |
|------------------------|----------|-----------|--------|-------------|--------|--------|
| Int Delay, s/veh | 0.6 | | | | | |
| 100 | | EDD | WDI | MDT | NDI | NDD |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | † | | * | ^ | Y | |
| Traffic Vol, veh/h | 2010 | 4 | 13 | 1651 | 5 | 55 |
| Future Vol, veh/h | 2010 | 4 | 13 | 1651 | 5 | 55 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | | None | - | None |
| Storage Length | - | - | 100 | - | 0 | - |
| Veh in Median Storage | e, # 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 96 | 96 | 96 | 96 | 96 | 96 |
| Heavy Vehicles, % | 4 | 0 | 0 | 3 | 0 | 2 |
| Mvmt Flow | 2094 | 4 | 14 | 1720 | 5 | 57 |
| | | | | | | |
| MainalMar | Mai d | Contract. | 1-1: 0 | THE PARTY | Par d | 12/4-1 |
| | Major1 | | Major2 | | Minor1 | 10:- |
| Conflicting Flow All | 0 | 0 | 2098 | 0 | 2984 | 1049 |
| Stage 1 | - | - | - | | 2096 | - |
| Stage 2 | | - | - | - | 888 | - |
| Critical Hdwy | - | - | 4.1 | - | 6.8 | 6.94 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.8 | - |
| Critical Hdwy Stg 2 | - | - | - | 1 - | 5.8 | - |
| Follow-up Hdwy | - | - | 2.2 | - | 3.5 | 3.32 |
| Pot Cap-1 Maneuver | - | 1 | 266 | AUT | 11 | 224 |
| Stage 1 | - | - | - | - | 82 | - |
| Stage 2 | - | - | - | - | 367 | - |
| Platoon blocked, % | _ | | | | 001 | |
| Mov Cap-1 Maneuver | | | 266 | | 10 | 224 |
| Mov Cap-2 Maneuver | | | 200 | | 63 | - |
| | | _ | | | 82 | |
| Stage 1 | | - | - | - | | |
| Stage 2 | - | - | - | - | 348 | - |
| | | | | | | |
| Approach | EB | | WB | in a second | NB | 918 |
| HCM Control Delay, s | 0 | | 0.2 | | 34.1 | |
| HCM LOS | | | 0.2 | | D | |
| TIOM 200 | | | | | | |
| | | IDI 4 | EDT | | MDI | MOT |
| Minor Lane/Major Mvm | nt r | VBLn1 | EBT | EBR | WBL | WBT |
| Capacity (veh/h) | | 185 | - | - | 266 | - |
| HCM Lane V/C Ratio | | 0.338 | - | - | 0.051 | - |
| HCM Control Delay (s) | | 34.1 | - | | 19.3 | - |
| HCM Lane LOS | | D | - | - | С | - |
| HCM 95th %tile Q(veh) |) | 1.4 | - | 1 | 0.2 | - |
| • | | | | | | |

YEAR 2025 LEVEL OF SERVICE CALCULATIONS AM & PM WITH PROJECT, WITH BACKGROUND

| | 1 | \rightarrow | 1 | 1 | - | * | 1 | 1 | - | 1 | + | 1 |
|--------------------------------|------------|---------------|-------|------|------------|------------|---------|----------|------|-------|-------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 1 | ^ | 7 | ሻሻ | ^ | 7 | 44 | † | 7 | 19 | 1 | |
| Traffic Volume (vph) | 27 | 1298 | 86 | 18 | 1273 | 33 | 157 | 6 | 15 | 136 | 36 | 54 |
| Future Volume (vph) | 27 | 1298 | 86 | 18 | 1273 | 33 | 157 | 6 | 15 | 136 | 36 | 54 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | |
| Lane Util. Factor | 1.00 | 0.95 | 1.00 | 0.97 | 0.95 | 1.00 | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Frt | 1.00 | 1.00 | 0.85 | 1.00 | 1.00 | 0.85 | 1.00 | 1.00 | 0.85 | 1.00 | 0.91 | |
| FIt Protected | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | |
| Satd. Flow (prot) | 1492 | 3406 | 1615 | 3502 | 3374 | 1392 | 3273 | 1583 | 1509 | 1770 | 1543 | |
| Flt Permitted | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | |
| Satd. Flow (perm) | 1492 | 3406 | 1615 | 3502 | 3374 | 1392 | 3273 | 1583 | 1509 | 1770 | 1543 | |
| Peak-hour factor, PHF | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Adj. Flow (vph) | 29 | 1411 | 93 | 20 | 1384 | 36 | 171 | 7 | 16 | 148 | 39 | 59 |
| RTOR Reduction (vph) | 0 | 0 | 41 | 0 | 0 | 15 | 0 | 0 | 15 | 0 | 50 | 0 |
| Lane Group Flow (vph) | 29 | 1411 | 52 | 20 | 1384 | 21 | 171 | 7 | 1 | 148 | 48 | 0 |
| Heavy Vehicles (%) | 21% | 6% | 0% | 0% | 7% | 16% | 7% | 20% | 7% | 2% | 0% | 20% |
| Turn Type | Prot | NA | Perm | Prot | NA | Perm | Prot | NA | Perm | Prot | NA | |
| Protected Phases | 5 | 2 | | 1 | 6 | | 3 | 8 | | 7 | 4 | |
| Permitted Phases | | | 2 | | | 6 | | | 8 | | | |
| Actuated Green, G (s) | 6.2 | 69.6 | 69.6 | 8.4 | 71.8 | 71.8 | 10.0 | 9.0 | 9.0 | 18.0 | 17.0 | |
| Effective Green, g (s) | 6.2 | 69.6 | 69.6 | 8.4 | 71.8 | 71.8 | 10.0 | 9.0 | 9.0 | 18.0 | 17.0 | |
| Actuated g/C Ratio | 0.05 | 0.56 | 0.56 | 0.07 | 0.57 | 0.57 | 0.08 | 0.07 | 0.07 | 0.14 | 0.14 | |
| Clearance Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 2.4 | 2.4 | 3.0 | 2.4 | |
| Lane Grp Cap (vph) | 74 | 1896 | 899 | 235 | 1938 | 799 | 261 | 113 | 108 | 254 | 209 | |
| v/s Ratio Prot | 0.02 | c0.41 | | 0.01 | c0.41 | | 0.05 | 0.00 | | c0.08 | c0.03 | |
| v/s Ratio Perm | | | 0.03 | | | 0.01 | | | 0.00 | | | |
| v/c Ratio | 0.39 | 0.74 | 0.06 | 0.09 | 0.71 | 0.03 | 0.66 | 0.06 | 0.01 | 0.58 | 0.23 | |
| Uniform Delay, d1 | 57.6 | 21.0 | 12.7 | 54.7 | 19.2 | 11.5 | 55.8 | 54.1 | 53.9 | 50.0 | 48.2 | |
| Progression Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Incremental Delay, d2 | 3.4 | 2.7 | 0.1 | 0.2 | 2.3 | 0.1 | 5.8 | 0.2 | 0.0 | 3.4 | 0.4 | |
| Delay (s) | 61.0 | 23.7 | 12.8 | 54.9 | 21.5 | 11.6 | 61.6 | 54.2 | 53.9 | 53.4 | 48.5 | |
| Level of Service | Е | С | В | D | С | В | Е | D | D | D | D | |
| Approach Delay (s) | | 23.7 | | | 21.7 | | | 60.7 | | | 51.4 | |
| Approach LOS | | С | | | С | | | Е | | | D | |
| Intersection Summary | | | | | State L | | | | | | | |
| HCM 2000 Control Delay | | | 27.0 | Н | CM 2000 | Level of S | Service | | C | | | |
| HCM 2000 Volume to Capac | city ratio | | 0.69 | | | | | | | | | |
| Actuated Cycle Length (s) | | | 125.0 | | um of lost | | | | 20.0 | | | |
| Intersection Capacity Utilizat | ion | | 69.2% | IC | U Level o | of Service | | | C | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| c Critical Lane Group | | | | | | | | | | | | |

| Intersection | | | | | | |
|--|---------------------------------|-------------------------------|------------------------|------|----------------------|-------|
| Int Delay, s/veh | 0.5 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| | | | VVDL | | INDL | |
| Lane Configurations | 1240 | 01 | ٥ | 1225 | ۸ | 70 |
| Traffic Vol, veh/h | 1340 | 81 | 0 | | 0 | 72 |
| Future Vol, veh/h | 1340 | 81 | 0 | 1225 | 0 | 72 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | Free | - | None | - | Yield |
| Storage Length | - | 185 | - | | - | 0 |
| Veh in Median Storage | | - | 6 LUG-1 | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 6 | 25 | 0 | 7 | 0 | 17 |
| Mvmt Flow | 1457 | 88 | 0 | 1332 | 0 | 78 |
| | | | | | | |
| Major/Minor | Majort | | Ania-O | | Ainer4 | - |
| | Major1 | | Major2 | | /linor1 | 700 |
| Conflicting Flow All | 0 | - | | - | | 729 |
| Stage 1 | - | - | - | | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | - | | - | | - | 7.24 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | | - | | 1 | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.47 |
| Pot Cap-1 Maneuver | | 0 | 0 | | 0 | 333 |
| Stage 1 | - | 0 | 0 | | 0 | - |
| Stage 2 | F 07/020 | 0 | 0 | - | 0 | |
| | | U | U | - | U | |
| | | | | - | | |
| Platoon blocked, % | - | | | | | 222 |
| Mov Cap-1 Maneuver | | | 5/8 | - | - | 333 |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver | | | (S) = - | - | | 333 |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 | | | | | | |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver | | - | - | - | - | - |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 | | | | | - | |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 | | | | | | |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 | - - - | | - - WB | | - - NB | |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s | | | | | - - NB 19.1 | |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 | - - - - | | - - WB | | - - NB | |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s | - - - - | | - - WB | | - - NB 19.1 | |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s | - - - - - - 0 | | - - WB | | - - NB 19.1 | |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvm | - - - - - - 0 | VBLn1 | - - - - WB | | - - NB 19.1 | |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvm Capacity (veh/h) | - - - - EB 0 | NBLn1 333 | WB 0 | WBT | - - NB 19.1 | |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio | - - - - 0 | NBLn1 333 0.235 | WB 0 | WBT | - - NB 19.1 | |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s) | - - - - 0 | NBLn1 333 0.235 19.1 | | WBT | - - NB 19.1 | |
| Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio | - - - - 0 | NBLn1 333 0.235 | WB 0 | WBT | - - NB 19.1 | |

| Intersection | | | | | | |
|--|----------|--------|--------|---------|--------|------|
| Int Delay, s/veh | 0.8 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | 1 | | ሻ | 44 | ** | |
| Traffic Vol, veh/h | 1397 | 8 | 119 | 1192 | 3 | 8 |
| Future Vol, veh/h | 1397 | 8 | 119 | 1192 | 3 | 8 |
| Conflicting Peds, #/hr | | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | 1.00 | - | None |
| Storage Length | - | - | 100 | - | 0 | - |
| Veh in Median Storag | | | - | 0 | 0 | |
| Grade, % | 0 | | - | 0 | 0 | |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 6 | 0 | 2 | 7 | 0 | 0 |
| | | | | | | |
| Mvmt Flow | 1518 | 9 | 129 | 1296 | 3 | 9 |
| | | | | | | |
| Major/Minor | Major1 | | Major2 | A STATE | Minor1 | |
| Conflicting Flow All | 0 | | 1527 | 0 | 2429 | 764 |
| Stage 1 | - | - | .021 | - | | - |
| Stage 2 | | | | | 906 | - |
| Critical Hdwy | - | | 4.14 | | 6.8 | 6.9 |
| Critical Hdwy Stg 1 | | - 100 | 7.17 | - | 5.8 | 0.5 |
| | | | - | | | |
| Critical Hdwy Stg 2 | - | - | 0.00 | • | 5.8 | - |
| Follow-up Hdwy | - | - | 2.22 | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | - | | 432 | | 27 | 351 |
| Stage 1 | - | - | | - | 169 | - |
| Stage 2 | - | - | | - | 359 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | 432 | - | 19 | 351 |
| Mov Cap-2 Maneuver | - | - | - | - | 101 | - |
| Stage 1 | | | - | | 169 | - |
| Stage 2 | - | - | | - | 252 | - |
| | | | | | | |
| A STATE OF THE STA | | | 10.00 | | | |
| Approach | EB | | WB | | NB | |
| HCM Control Delay, s | 0 | | 1.5 | | 23.2 | |
| HCM LOS | | | | | C | |
| | | | | | | |
| Minor Long/Major M. | mt h | IDI -1 | EDT | EDD | WDI | MIDT |
| Minor Lane/Major Mvr | nt f | VBLn1 | EBT | EBR | WBL | WBT |
| Capacity (veh/h) | | 210 | - | | 432 | - |
| HCM Lane V/C Ratio | | 0.057 | - | - | 0.299 | |
| HCM Control Delay (s |) | 23.2 | - | - | 16.9 | - |
| HCM Lane LOS | | С | - | - | С | |
| HCM 95th %tile Q(veh | 1) | 0.2 | | - | 1.2 | - |
| | | | | | | |

| | 1 | \rightarrow | * | 1 | + | 1 | 1 | † | 1 | 1 | + | 1 |
|---------------------------------|-----------|---------------|-------|-------|------------|------------|---------|----------|---------|-------|------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 7 | 44 | 7 | 14.14 | ^ | 7 | 44 | † | 7 | 7 | 1 | |
| Traffic Volume (vph) | 88 | 1898 | 130 | 23 | 1451 | 102 | 247 | 44 | 53 | 61 | 8 | 46 |
| Future Volume (vph) | 88 | 1898 | 130 | 23 | 1451 | 102 | 247 | 44 | 53 | 61 | 8 | 46 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | |
| Lane Util. Factor | 1.00 | 0.95 | 1.00 | 0.97 | 0.95 | 1.00 | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Frt | 1.00 | 1.00 | 0.85 | 1.00 | 1.00 | 0.85 | 1.00 | 1.00 | 0.85 | 1.00 | 0.87 | |
| Flt Protected | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | |
| Satd. Flow (prot) | 1583 | 3505 | 1568 | 3335 | 3505 | 1553 | 3367 | 1900 | 1615 | 1556 | 1430 | |
| FIt Permitted | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | |
| Satd. Flow (perm) | 1583 | 3505 | 1568 | 3335 | 3505 | 1553 | 3367 | 1900 | 1615 | 1556 | 1430 | |
| Peak-hour factor, PHF | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Adj. Flow (vph) | 94 | 2019 | 138 | 24 | 1544 | 109 | 263 | 47 | 56 | 65 | 9 | 49 |
| RTOR Reduction (vph) | 0 | 0 | 48 | 0 | 0 | 48 | 0 | 0 | 48 | 0 | 45 | 0 |
| Lane Group Flow (vph) | 94 | 2019 | 90 | 24 | 1544 | 61 | 263 | 47 | 8 | 65 | 13 | 0 |
| Heavy Vehicles (%) | 14% | 3% | 3% | 5% | 3% | 4% | 4% | 0% | 0% | 16% | 0% | 19% |
| Turn Type | Prot | NA | Perm | Prot | NA | Perm | Prot | NA | Perm | Prot | NA | 1070 |
| Protected Phases | 5 | 2 | | 1 | 6 | 1 01111 | 3 | 8 | 1 01111 | 7 | 4 | |
| Permitted Phases | | _ | 2 | • | | 6 | | 0 | 8 | | | |
| Actuated Green, G (s) | 15.2 | 90.9 | 90.9 | 6.0 | 81.7 | 81.7 | 16.1 | 20.1 | 20.1 | 8.0 | 12.0 | |
| Effective Green, g (s) | 15.2 | 90.9 | 90.9 | 6.0 | 81.7 | 81.7 | 16.1 | 20.1 | 20.1 | 8.0 | 12.0 | |
| Actuated g/C Ratio | 0.10 | 0.63 | 0.63 | 0.04 | 0.56 | 0.56 | 0.11 | 0.14 | 0.14 | 0.06 | 0.08 | |
| Clearance Time (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 2.4 | 2.4 | 3.0 | 2.4 | |
| Lane Grp Cap (vph) | 165 | 2197 | 982 | 138 | 1974 | 875 | 373 | 263 | 223 | 85 | 118 | |
| v/s Ratio Prot | c0.06 | c0.58 | 002 | 0.01 | 0.44 | 0.0 | c0.08 | c0.02 | 220 | 0.04 | 0.01 | |
| v/s Ratio Perm | 00.00 | 00.00 | 0.06 | 0.01 | 0.11 | 0.04 | 00.00 | 00.02 | 0.00 | 0.04 | 0.01 | |
| v/c Ratio | 0.57 | 0.92 | 0.09 | 0.17 | 0.78 | 0.07 | 0.71 | 0.18 | 0.03 | 0.76 | 0.11 | |
| Uniform Delay, d1 | 61.8 | 23.8 | 10.7 | 67.1 | 24.7 | 14.4 | 62.2 | 55.2 | 54.1 | 67.6 | 61.6 | |
| Progression Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Incremental Delay, d2 | 4.5 | 7.7 | 0.2 | 0.6 | 3.2 | 0.2 | 6.0 | 0.2 | 0.0 | 32.8 | 0.3 | |
| Delay (s) | 66.2 | 31.5 | 10.9 | 67.7 | 27.9 | 14.5 | 68.1 | 55.4 | 54.1 | 100.4 | 61.8 | |
| Level of Service | E | C | В | E | C | В | E | E | D | F | E | |
| Approach Delay (s) | | 31.7 | | _ | 27.6 | | _ | 64.3 | | | 82.2 | |
| Approach LOS | | C | | | C | | | E | | | F | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2000 Control Delay | | | 34.2 | Н | CM 2000 | Level of | Service | | С | | | |
| HCM 2000 Volume to Capac | ity ratio | | 0.82 | | | | | | | | | |
| Actuated Cycle Length (s) | | | 145.0 | St | um of lost | time (s) | | | 20.0 | | | |
| Intersection Capacity Utilizati | on | | 87.0% | | | of Service | | | E | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| c Critical Lane Group | | | | | | | | | | | | |

| Intersection | | | | | 57 R - UK | |
|------------------------|----------|-------|--------|----------|-----------|-------|
| Int Delay, s/veh | 0.6 | | - | - | No. | - |
| | | ED.5 | 14/51 | 14/50 | NO | NICO |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ^ | 7 | | ^ | | 7 |
| Traffic Vol, veh/h | 1951 | 93 | 0 | 1666 | 0 | 78 |
| Future Vol, veh/h | 1951 | 93 | 0 | 1666 | 0 | 78 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | | Free | | None | | Yield |
| Storage Length | - | 185 | - | - | - | 0 |
| Veh in Median Storage, | # 0 | | | 0 | 0 | |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 98 | 98 | 98 | 98 | 98 | 98 |
| Heavy Vehicles, % | 4 | 0 | 0 | 4 | 0 | 0 |
| Mymt Flow | 1991 | 95 | 0 | 1700 | 0 | 80 |
| | | | | | | |
| | | | | | | |
| | /lajor1 | N | Major2 | N | /linor1 | |
| Conflicting Flow All | 0 | - | - | - | - | 996 |
| Stage 1 | - | - | - | - | - | - |
| Stage 2 | - | - | - | - | - | - |
| Critical Hdwy | | - | - | | - | 6.9 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | - | | | | - | - |
| Follow-up Hdwy | - | - | - | - | - | 3.3 |
| Pot Cap-1 Maneuver | 5 | 0 | 0 | 3 | 0 | 247 |
| Stage 1 | | 0 | 0 | - | 0 | - |
| Stage 2 | | 0 | 0 | 1000 | 0 | - 6 |
| Platoon blocked, % | | 0 | U | | 0 | |
| Mov Cap-1 Maneuver | | | | | | 247 |
| | - | - | | - | - | 241 |
| Mov Cap-2 Maneuver | | | - | - | - | - |
| Stage 1 | - | 7 | - | - | | - |
| Stage 2 | - | - | - | - | - | - |
| | | | | | | |
| Approach | EB | | WB | 4 | NB | Link. |
| HCM Control Delay, s | 0 | | 0 | | 26.4 | VE T |
| HCM LOS | | | | | D | |
| | | | | | | |
| | | IDI 4 | | 14/5- | | |
| Minor Lane/Major Mvmt | | VBLn1 | EBT | WBT | | |
| Capacity (veh/h) | | 247 | - | - | | |
| HCM Lane V/C Ratio | | 0.322 | - | - | | |
| HCM Control Delay (s) | | 26.4 | - | - | | |
| HCM Lane LOS | | D | - | - | | |
| HCM 95th %tile Q(veh) | | 1.3 | - | | | |
| | | | | | | |

| ntersection | | | | | | |
|------------------------|----------|---------|---------|----------|--------|-----------------|
| Int Delay, s/veh | 1.6 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | † | LDIN | ሻ | ^ | ** | NOIN |
| Traffic Vol, veh/h | 2034 | 4 | 71 | 1623 | 8 | 82 |
| Future Vol, veh/h | 2034 | 4 | 71 | 1623 | 8 | 82 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | | Otop | None |
| Storage Length | - | TVOIIC | 100 | TVOITE - | 0 | TVOIC |
| Veh in Median Storage | | | - | 0 | 0 | |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 96 | 96 | 96 | 96 | 96 | 96 |
| Heavy Vehicles, % | 4 | 0 | 0 | 3 | 0 | 2 |
| Mymt Flow | 2119 | 4 | 74 | 1691 | 8 | 85 |
| WWITH IOW | 2113 | 4 | 14 | 1091 | 0 | 00 |
| Major/Minor N | //ajor1 | | Major2 | | Minor1 | |
| Conflicting Flow All | 0 | 0 | 2123 | 0 | 3115 | 1062 |
| Stage 1 | | | | | | |
| Stage 2 | - | | | | 994 | |
| Critical Hdwy | | | 4.1 | | 6.8 | 6.94 |
| Critical Hdwy Stg 1 | - | | - | - | 5.8 | - |
| Critical Hdwy Stg 2 | | - | | 21 - 2 | 5.8 | |
| Follow-up Hdwy | | | 2.2 | - | 3.5 | 3.32 |
| Pot Cap-1 Maneuver | | | 260 | | 9 | 220 |
| Stage 1 | | | 200 | | 80 | - |
| Stage 2 | | | | | 323 | |
| Platoon blocked, % | | | 1100 | | 020 | |
| Mov Cap-1 Maneuver | | - 1/0/2 | 260 | - | ~6 | 220 |
| Mov Cap-1 Maneuver | | 5 | | | 56 | 220 |
| | | 701 70 | - | | 80 | |
| Stage 1 | - | - | - | | | |
| Stage 2 | | | | - | 231 | |
| | | | | | | |
| Approach | EB | Land. | WB | | NB | |
| HCM Control Delay, s | 0 | | 1 | | 47.1 | |
| HCM LOS | | | | | Е | |
| | | | | | | |
| Minor Lane/Major Mvm | 1 | VBLn1 | EBT | EBR | WBL | WBT |
| Capacity (veh/h) | | 175 | - | - | 260 | |
| HCM Lane V/C Ratio | | 0.536 | - | - | 0.284 | - |
| HCM Control Delay (s) | | 47.1 | - | - | 24.3 | - |
| HCM Lane LOS | | Е | - | - | С | |
| HCM 95th %tile Q(veh) | | 2.7 | - | | 1.1 | - |
| Notes | ne se | | t de | | | |
| ~: Volume exceeds cap | - | | lay exc | - | | - de la company |

TRIP GENERATION TABLES PER LAND USE CODE

Whipple Consulting Engineers Trip Generation May 31, 2019 WCE No. 19-2373

| Lot # | Potential Land Use | Potential Bldg Size (sf) | LUC |
|-------|----------------------------------|--------------------------|-----|
| 1 | Car Wash | 6,552 | 948 |
| 2 | Coffee Shop w/ Drive | 1,248 | 937 |
| 3 | Fast Food Restaurant W/ dr. thru | 2,190 | 934 |
| 4 | High Turn-over Restaurant | 9,321 | 820 |
| 5 | General Office | 3,335 | |
| 6 | Retail | 10,682 | |
| 7 | General Office | 5,672 | |
| - | Total Shopping Center | 29,010 | |

Trip Generation Rates for LUC #948 – Automated Carwash

| | AM Peak H | our | | PM Peak Hour | | | |
|-------------------------------|---------------|---------|--------------------|---|-----------------------------|---------|--|
| Thousand Square Feet (KSF) | VOL (a) | | ctional ibution | Vol. @ 14.20 trips | Directional Distribution | | |
| | KSF* | 50% In | 50% Out | / KSF | 50% In | 50% Out | |
| 6.4 | 23 | 12 | 11 | 91 | 46 | 45 | |
| Internal Trips | 1 | 0 | 1 | 12 | 7 | 5 | |
| External Trips | 22 | 12 | 10 | 79 | 39 | 40 | |
| Pass-by/Diverted Trips | 11 | 6 | 5 | 39 | 19 | 20 | |
| New Trips | 11 | 6 | 5 | 40 | 20 | 20 | |
| Average D | aily Trip End | s (ADT) | | Per enginee | | | |
| KSF | Rat | e ' | ADT | AM rate is 25% of the PM Peak Hour Trip Vol. rate A Pass-by rate of 50% | | | |
| 6.4 | 142. | 0 | 909 | | | | |

Trip Generation Rates for LUC #937 - Coffee/Donut Shop with Drive-Through Window

| TIP Generation Itates to | I ECC III | COTTECT | ondt Shop | VICIO DI IVE I I | nough W | III WOW | |
|-------------------------------|-----------------------|---------|--------------------|--------------------|-----------------------------|--------------|--|
| | AM | Peak Ho | ur | PM Peak Hour | | | |
| Thousand Square Feet (KSF) | Vol. @ 88.99 trips | | ctional ibution | Vol. @ 43.38 trips | Directional Distribution | | |
| | per Unit | 51% In | 49% Out | / KSF | 50% In | 50% Out | |
| 1.24 | 111 | 57 | 54 | 54 | 27 | 27 | |
| Internal Trips | 6 | 2 | 4 | 7 | 4 | 3 | |
| External Trips | 105 | 55 | 50 | 47 | 23 | 24 | |
| Pass-by/Diverted Trips | 52 | 27 | 25 | 23 | 11 | 12 | |
| New Trips | 53 | 28 | 25 | 24 | 12 | 12 | |
| Average Da | aily Trip End | s (ADT) | | Per engineer | | ent, a pass- | |
| KSF | Rate | | ADT | | by rate of 50% | | |
| 1.24 | 820.38 | | 1,018 | | | | |

Trip Generation Rates for LUC #934 - Fast Food Restaurant w/ Drive-Thru Window

| Table 1 our Restaurant W. Dilve 1 mu Window | | | | | | | |
|---|--------------------|--------------------------------|--------------------|-----------------------|-----------------------------|---------|--|
| | AM | Peak Ho | ur | PM Peak Hour | | | |
| Thousand Square Feet (KSF) | Vol. @ 40.19 trips | La company of the | ctional ibution | Vol. @ 32.67 trips | Directional Distribution | | |
| | / KSF | 51% In | 49% Out | / KSF | 52% In | 48% Out | |
| 3.8 | 153 | 78 | 75 | 125 | 65 | 60 | |
| Internal Trips | 8 | 4 | 4 | 16 | 10 | 6 | |
| External Trips | 145 | 74 | 71 | 109 | 55 | 54 | |
| Pass-by/Diverted Trips | 71 | 36 | 35 | 54 | 27 | 27 | |
| New Trips | 74 | 38 | 36 | 55 | 28 | 27 | |
| Average Da | aily Trip End | s (ADT) | | Per ITE Har | | | |
| KSF | Rate | ADT 5.24, 49% for AM and 50% 1 | | | 0% for PM, | | |
| 3.8 | 470.95 | | 1,790 | | | | |

Trip Generation Rates for LUC #820- Shopping Center

| | AM Peak H | lour | | PM Peak Hour | | | | |
|-------------------------------|----------------------|-----------------------|---------|---|-----------------------------|-----------|--|--|
| Thousand Square Feet (KSF) | Vol. @ 0.94 trips | Direction Distribu | | Vol. @ 3.81 trips | Directional Distribution | | | |
| | per Unit | 62% In | 38% Out | per Unit | 48% In | 52% Out | | |
| 29.0 | 28 | 17 | 11 | 111 | 53 | 58 | | |
| Internal Trips | 10 | 6 | 4 | 35 | 14 | 21 | | |
| External Trips | 18 | 11 | 7 | 76 | 39 | 37 | | |
| Pass-by/Diverted Trips | 9 | 5 | 4 | 26 | 12 | 14 | | |
| New Trips | 9 | 6 | 3 | 50 | 27 | 23 | | |
| Average Daily Trip En | ds (ADT) | | | Per ITE Ha | ındbook T | able 5.6, | | |
| KSF | Rate | ADT | | the PM pass-by rate 34%. AM | | | | |
| 39.0 | 37.75 | 1,473 | | pass-by rate is assumed to be 50% of PM pass-by rate. | | | | |

Trip Generation Rates for LUC #310– Hotel (Existing)

| | A 1 | M Peak H | our | PM Peak Hour | | | | |
|----------------|----------------------|----------|--------------------|--------------------------|------------------|---------|--|--|
| Rooms | Vol. @ 0.47 trips | | ctional ibution | Vol. @ 0.60 trips per | Direc Distril | ution | | |
| | per Unit | 59% In | 41% Out | Unit | 51% In | 49% Out | | |
| 100 | 47 | 28 | 19 | 60 | 31 | 29 | | |
| Internal Trips | 15 | 8 | 7 | 24 | 12 | 12 | | |
| Averag | ge Daily Trip | Ends (Al | OT) | | | | | |
| Rooms | Rate | | ADT | | | | | |
| 100 | 8.36 | | 836 | | | | | |

Table 6-Trip Generation Summary (Total)

| | AM Peak Hour Trips | | | PM Peak Hour Trips | | | |
|---|-----------------------|-----|--------------------|--------------------|-----|------------------|--|
| Land Use Code (LUC) | Vol. / | | ctional ibution | Vol. / LUC | | tional bution | |
| | LUU | In | Out | LUC | In | Out | |
| LUC #948 Automated Car Wash | 23 | 12 | 11 | 91 | 46 | 45 | |
| LUC #937 Coffee/Donut w/ Drive-Thru | 111 | 57 | 54 | 54 | 27 | 27 | |
| LUC #934 Fast Food Restaurant w/ DrThru | 153 | 78 | 75 | 125 | 65 | 60 | |
| LUC #820 Shopping Center | 28 | 17 | 11 | 111 | 53 | 58 | |
| Total | 315 | 164 | 151 | 381 | 191 | 190 | |
| Average Daily Trip Ends (| ADT) | | | Assets Assets | | Take S | |
| Land Use Code (LUC) | Rate | A | DT | | | | |
| LUC #948 Automated Car Wash | _ | Ş | 909 | 13.12 | | | |
| LUC #937 Coffee/Donut w/ Drive-Thru | - | 1, | 018 | | | | |
| LUC #934 Fast Food Restaurant w/ DrThru | - | 1, | 790 | | | | |
| LUC #820 Shopping Center | - | 1, | 473 | | | # 1 | |
| Total | - | 5, | 190 | | | | |

Table 7-Internal Trip Generation Summary

| | AM Peak Hour Trips | | | PM Peak Hour Trips | | | |
|---|-----------------------|----|-------------------|--------------------|----|------------------------|--|
| Land Use Code (LUC) | Vol. / | | ctional bution | Vol. / LUC | | irectional istribution | |
| | LUC | In | Out | LUC | In | Out | |
| LUC #948 Automated Car Wash | 1 | 0 | 1 | 12 | 7 | 5 | |
| LUC #937 Coffee/Donut w/ Drive-Thru | 6 | 2 | 4 | 7 | 4 | 3 | |
| LUC #934 Fast Food Restaurant w/ DrThru | 8 | 4 | 4 | 16 | 10 | 6 | |
| LUC #820 Shopping Center | 10 | 6 | 4 | 35 | 14 | 21 | |
| Total | 25 | 12 | 13 | 70 | 35 | 35 | |

Table 8-External Trip Generation Summary

| | AM | Peak I Trips | lour | PM Peak Hour Trips | | | |
|---|--------|-----------------------|--------------------|--------------------|---|-------------------|--|
| Land Use Code (LUC) | Vol. / | THE ALL STORE WHO SHE | ctional ibution | Vol./ | | ectional ribution | |
| | LUC | In | Out | LUC | Direc Distri In 39 23 55 39 | Out | |
| LUC #948 Automated Car Wash | 22 | 12 | 10 | 79 | 39 | 40 | |
| LUC #937 Coffee/Donut w/ Drive-Thru | 105 | 55 | 50 | 47 | 23 | 24 | |
| LUC #934 Fast Food Restaurant w/ DrThru | 145 | 74 | 71 | 109 | 55 | 54 | |
| LUC #820 Shopping Center | 18 | 11 | 7 | 76 | 39 | 37 | |
| Total | 290 | 152 | 138 | 311 | 156 | 155 | |

Table 9-Pass-by Trip Generation Summary

| | AM | Peak F Trips | Iour | PM Peak Hour Trips | | | |
|---|---------------|---|------------------|--------------------|------------------------|------------------|--|
| Land Use Code (LUC) | Vol. / LUC | · 一种 医一种 医二种 医二种 医二种 医二种 医二种 医二种 医二种 医二种 医二种 医二 | tional bution | Vol. / LUC | ATTREE TO A SECOND | tional bution | |
| | LUC | In | Out | LUC. | Direct District 19 | Out | |
| LUC #948 Automated Car Wash | 11 | 6 | 5 | 39 | 19 | 20 | |
| LUC #937 Coffee/Donut w/ Drive-Thru | 52 | 27 | 25 | 23 | 11 | 12 | |
| LUC #934 Fast Food Restaurant w/ DrThru | 71 | 36 | 35 | 54 | 27 | 27 | |
| LUC #820 Shopping Center | 9 | 5 | 4 | 26 | 12 | 14 | |
| Total | 143 | 74 | 69 | 142 | 69 | 73 | |

Table 10-New Trip Generation Summary

| | AM | Peak I Trips | Iour | PM Peak Hour Trips | | | |
|---|-------|--|--------------------|--------------------|-----------------------|----------------------|--|
| Land Use Code (LUC) | Vol./ | The state of the s | ctional ibution | Vol./ | CALLET TOWARD CO. CO. | ectional ribution | |
| | LUC | In | Out | LUC | Direc | Out | |
| LUC #948 Automated Car Wash | 11 | 6 | 5 | 40 | 20 | 20 | |
| LUC #937 Coffee/Donut w/ Drive-Thru | 53 | 28 | 25 | 24 | 12 | 12 | |
| LUC #934 Fast Food Restaurant w/ DrThru | 74 | 38 | 36 | 55 | 28 | 27 | |
| LUC #820 Shopping Center | 9 | 6 | 3 | 50 | 27 | 23 | |
| Total | 147 | 78 | 69 | 169 | 87 | 82 | |

INTERNAL TRIP GENERATION CALCULATIONS

