Cascade Business Park Traffic Impact Analysis

1490 Coyote Ridge Road North Bonneville, Washington 98639

Prepared for:

Port of Skamania County 212 SW Cascade Avenue Stevenson, Washington 98648



August 1, 2025 Apex Project 78260.000



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EXECUTIVE SUMMARY

Purpose and Scope

The applicant proposes to develop approximately 11 acres of a 40-acre undeveloped site into 170,000 square feet of general industrial buildings and an 80-room hotel. The site is located in North Bonneville, Washington, on Skamania County (County) parcel number 02072000020500. The existing site is currently undeveloped land. The City of North Bonneville's (City) zoning map designates the site as Industrial/Business Park (I/BP). See Figure 1 for the vicinity map and Figure 2 for the site plan. The estimated completion date of the project is 2035.

The following intersections were identified for this traffic impact analysis (TIA):

- 1. Bonneville Drive / State Route 14 (SR-14)
- 2. Dam Access Road / SR-14
- 3. Cascade Drive / Coyote Ridge Road (Access)
- 4. Coyote Ridge / Fort Cascades Drive (Access)
- 5. Evergreen Drive / SR-14
- 6. SR-14 / Bridge of the Gods

Findings

The findings of this TIA are listed below.

- Traffic volumes in the study area will continue to increase with or without the Cascade Business Park development. Generic background growth is estimated to add approximately 1% annually to the baseline traffic volumes between the baseline year (2025) and the project year (2035).
- The proposed Cascade Business Park development will have two site access points on Coyote Ridge Road.
- The Cascade Business Park is anticipated to generate a total of 1,134 vehicle trips during the weekday and a total of 90 vehicle trips during the PM peak hour.
- All studied intersections operate at an acceptable LOS in the 2025 Existing Conditions and the 2035
 Without Project conditions and the SR-14 / Bridge of the Gods intersection fails in the 2035 With
 Project condition.
- The 2020 to 2024 collision history at the study intersections was reviewed. All studied intersections have collision rates below the critical rate.
- Assure all driveways, sidewalks, and curb ramps constructed with the proposed project comply with the current Americans with Disabilities Act (ADA) guidelines.
- Digital review of the current conditions along Coyote Ridge Road suggests that adequate sight distances should be achievable through design and construction of the proposed site access.

Recommendations

This TIA supports the following recommendations:

- The SR-14 / Bridge of the Gods intersection will need to be closely monitored in the future. A signal, based on Warrant 3, is not met in the 2035 With or Without Project conditions.
- Assure all driveways, sidewalks, and curb ramps constructed with the site development project comply with the current ADA guidelines.

 Design the proposed site access along Coyote Ridge Road to meet North Bonneville Municipal Code (NBMC) 12.24.150 – sight obstruction requirements.

1 INTRODUCTION

The purpose of this study is to determine the impacts of the traffic generated by the Cascade Business Park project (Project) on the surrounding roadway infrastructure. The project site is shown in the vicinity map (Figure 1). This study will determine if mitigation is required to keep the roadways operating safely and at capacity levels acceptable under current level of service (LOS) standards. This report documents the findings and conclusions of a traffic impact analysis (TIA) conducted for the proposed site plan (Figure 2) for property located in North Bonneville, Washington.

1.1 Scope of Study

This study documents the existing and proposed conditions, traffic data, safety analysis, and intersection operations in accordance with the requirements of Washington State Department of Transportation (WSDOT).

The following intersections were identified for analysis:

- 1. Bonneville Drive / State Route 14 (SR-14)
- 2. Dam Access Road / SR-14
- 3. Cascade Drive / Coyote Ridge (Access)
- 4. Coyote Ridge / Fort Cascades Drive (Access)
- 5. Evergreen Drive / SR-14
- 6. SR-14 / Bridge of the Gods

This TIA includes analysis of future background conditions growth based on an assumed 1% annual growth rate.

This TIA is prepared for submission to the Port of Skamania and WSDOT. The traffic-related issues addressed in this report include:

- Existing traffic conditions
- Proposed site-generated traffic volumes and their distribution
- Build-out year (2035) conditions without and with the project
- Capacity analysis of the existing and future conditions for weekday PM peak hour
- Safety analysis of the existing and future conditions
- Recommendations for mitigation of traffic impacts

1.2 Existing Site Conditions

The address associated with the project is 1490 Coyote Ridge Road. The area currently consists of vacant land and is currently zoned Industrial/Business Park (I/BP). See Figure 1 for a vicinity map.

1.3 Existing Infrastructure

The existing infrastructure and operational traffic conditions in the study area are documented in the following sections of this TIA. Roadway conditions were studied to confirm that the roadway is currently operating in a safe and efficient manner.

1.3.1 Land Uses

The land uses surrounding the site are documented to help identify the site location and provide reference for any discussion of conditions that might impact the adjacent properties. The land uses surrounding the site are shown in Table 1.

Table 1. Land Uses Around the Site

| North of Site | | | | |
|---------------|----------------------------|--|--|--|
| Zoning | 0 | | | |
| Description | Open Space Preserve | | | |
| Existing Use | Open Space / Forested Area | | | |

S I T E

| West of Site | | | | | |
|--------------|--|--|--|--|--|
| Zoning | O / SFR | | | | |
| Description | Open Space Preserve / Single-Family Residential | | | | |
| Existing Use | Forested Areas / Residential | | | | |

| East of Site | | | | | |
|--------------|-----------------------------|--|--|--|--|
| Zoning | Unzoned | | | | |
| Description | Unzoned Skamania County | | | | |
| Existing Use | Forested Land / Vacant Land | | | | |

| South of Site | | | | | |
|-------------------|---|--|--|--|--|
| Zoning USA | | | | | |
| Description | Federal Ownership Areas | | | | |
| Existing Use | Forested Land / US Army Corps of Engineers (USACE) Facility | | | | |

1.3.2 Existing Roadways

The existing roadway providing primary public access to the site is Coyote Ridge Road. This roadway is currently gated and accessible only during certain times of the day. Data was gathered on this and other roadways in the study area to inform operations analysis of the existing roadway system. The pertinent information regarding the study area roadways is tabulated in Table 2.

Table 2. Existing Roadway Information

| Table 2. Existing Roadway information | | | | | | |
|---------------------------------------|---|-------------|--------------------|-----------|------------|--|
| Roadway | Classification | Speed Limit | Lane Configuration | | | |
| Name | Classification | (mph) | Lanes | Sidewalks | Bike Lanes | |
| SR-14 | Rural Other Freeways / Expressways ¹ | 55 | 2–3 | No | No | |
| Cascade Drive | Rural Major Collector ¹ | 25 | 2 | No | No | |
| Coyote Ridge Road | Local Access ² | 25 | 2 | Yes | No | |
| Fort Cascades Drive | Local Access ² | 30 | 2 | No | No | |
| Dam Access Road | Local Access ² | 30 | 2 | No | No | |
| Bonneville Drive | Rural Major Collector ¹ | 25³ | 2 | No | No | |

| Roadway | Classification | Speed Limit | Lane Configuration | | |
|-----------------------|---|-------------|--------------------|-----------|------------|
| Name | Classification | (mph) | Lanes | Sidewalks | Bike Lanes |
| Evergreen Drive | Rural Major Collector ¹ | 25 | 2 | No | No |
| Bridge of the Gods | Rural Other Principal Arterial ¹ | 15 | 2 | No | No |

Based on the WSDOT Functional Classification Map: https://wsdot.wa.gov/data/tools/geoportal/?config=FunctionalClass

1.3.3 Major Intersections and Traffic Control

The intersections studied in this TIA are identified above. The existing characteristics of these intersections, such as their traffic controls, approach lanes, and orientations, are further described in Table 3. In general, the roadway listed first in the intersection title is treated as the north-south alignment, and the roadway listed second is treated as the east-west alignment.

Table 3. Major Intersections: Existing Lanes and Traffic Controls

| Intersection | 1. Bonneville Drive / SR-14 | | | | | |
|---------------------|-----------------------------|----|------------|------------|--|--|
| Leg | NB (Bonneville) | SB | WB (SR-14) | EB (SR-14) | | |
| Control | Stop | NA | Unc. | Unc. | | |
| # of Approach Lanes | 2 | NA | 2 | 2 | | |

| Intersection | 2. Dam Access Road / SR-14 | | | | |
|-----------------|----------------------------|------|------------|-----------|--|
| Leg | NB (Dam Access) | SB | WB (SR-14) | EB(SR-14) | |
| Control | Stop | Stop | Unc. | Unc. | |
| Number of Lanes | 1 | 1 | 3 | 3 | |

| Intersection | 3. Cascade Drive / Coyote Ridge Road (Access) | | | | | |
|-----------------|---|--------------|----------------------|----|--|--|
| Leg | NB (Cascade) | SB (Cascade) | WB (Coyote Ridge) | ЕВ | | |
| Control | Unc. | Unc. | Stop | NA | | |
| Number of Lanes | 1 | 1 | 1 | NA | | |

| Intersection | 4. Coyote Ridge Road / Fort Cascades Drive (Access) | | | | |
|-----------------|---|----------------------|-----------------------|-----------------------|--|
| Leg | NB | SB (Coyote Ridge) | WB (Fort Cascades) | EB (Fort Cascades) | |
| Control | NA | Stop | Unc. | Unc. | |
| Number of Lanes | NA | 1 | 1 | 1 | |

| Intersection | 5. Evergreen Drive / SR-14 | | | | | | | | | | | | |
|--------------|----------------------------|----------------|------------|------------|--|--|--|--|--|--|--|--|--|
| Leg | NB | SB (Evergreen) | WB (SR-14) | EB (SR-14) | | | | | | | | | |
| Control | Stop | Stop | Unc. | Unc. | | | | | | | | | |

² Based on the Skamania County Comprehensive Plan (see References).

³ Unposted speed limit; reported value is presumed. mph: miles per hour

Number of Lanes

2

| | | | • | • |
|-----------------|------------|--------------|-------------------------|----|
| Intersection | | 6. SR-14 / B | ridge of the Gods | |
| Leg | NB (SR-14) | SB (SR-14) | WB (Bridge of the Gods) | ЕВ |
| Control | Unc. | Unc. | Stop | NA |
| Number of Lanes | 1 | 2 | 1 | NA |

1

NA: not applicable; approach does not currently exist

NB: northbound; SB: southbound; WB: westbound; EB: eastbound

Stop: stop-controlled leg of intersection

Unc.: uncontrolled leg approaching intersection—does not stop or yield

1

The project area is defined as the vicinity of the site encompasses by the study intersections. The operation of the intersections can be controlled by signing, roundabouts, or signalization. Table 3 refers to the type of control and number of approach lanes for each leg of each intersection. The existing lane configurations and traffic controls for all intersections are shown in Figure 3. Planned lane configurations and traffic controls at future intersections are discussed later in this TIA.

1.4 Traffic Volumes

1.4.1 Existing Traffic Volumes

Turning movement counts were gathered for the weekday PM (4:00 to 6:00 pm) peak hours by REKOR on Tuesday, June 24, 2025, and Tuesday, July 15, 2025, at the following studied intersections. Copies of the count data are provided in Appendix A.

- 1. Bonneville Drive / SR-14
- 2. Dam Access Road / SR-14
- 3. Cascade Drive / Coyote Ridge (Access)
- 4. Coyote Ridge / Fort Cascades Drive
- 5. Evergreen Drive / SR-14
- 6. SR-14 / Bridge of the Gods

Figure 4 shows the 2025 Existing Volumes based on these counts. Copies of the count data used are provided in Appendix A.

1.4.2 Background Growth

Background growth is a generic increase in traffic volumes that either is not attributable to specific developments or is attributable to influences outside the study area. As a conservative estimate, a background growth rate of 1% per year was applied to all 2025 existing peak hour movement volumes between public roadways at the studied intersections.

1.4.3 In-Process Projects

No in-process projects were identified for inclusion in this TIA.

1.4.4 Future Volumes

The baseline volumes for the 2035 intersection operations analysis, termed the 2035 Without Project volumes, represent the sum of 2025 existing traffic and 10 years of background growth. Figure 5 presents the 2035 Without Project volumes for the weekday PM peak hour. These volumes were input to the intersection operations analyses, addressed later in this TIA.

Findings: Traffic volumes in the study area will continue to increase with or without the Project. Generic background growth is estimated to add approximately 1% annually to the baseline traffic volumes between the baseline year (2025) and the project year (2035).

1.4.5 Transportation Improvement Projects

The 2025 through 2030 Transportation Plan (TIP) for the City of North Bonneville (City; see Appendix E) identifies one project that will take place at or near the vicinity of the study intersections for this project. This project is:

• **Project #2—SR 14 Deceleration Lane Construction:** Construct a deceleration lane for exit from SR-14 on to Dam Access Road with an anticipated completion after 2030.

2 PROPOSED CONDITIONS

The proposed development will add traffic to the roadway system. The project location, size, and completion date are all important elements that need to be considered to determine the development's impacts on safety and capacity. It is also important to examine how the project will operate with the existing transportation system, estimate how much new traffic it will generate, and predict where traffic generated by the site will be distributed. All these elements are important in assessing the traffic impacts of this project.

2.1 Project Description

The applicant proposes to develop approximately 11 acres of a 40-acre undeveloped site into 170,000 square feet of general industrial buildings and an 80-room hotel. The site is located in North Bonneville, Washington, on Skamania County (County) parcel number 02072000020500. The existing site is currently undeveloped land. The City's zoning map designates the site as Industrial/Business Park (I/BP). See Figure 1 for the vicinity map and Figure 2 for the site plan. The estimated completion date of the project is 2035.

2.2 Access and Circulation

The proposed development will have access points at each end of Coyote Ridge Road. Each access point will be gated and open only during designated times of the day. See Figure 2 for reference. The site trips are assumed to access the existing roadway network at one of two locations:

- Cascade Drive / Coyote Ridge Road intersection
- Coyote Ridge Road / Fort Cascades Drive intersection

31

Findings: The proposed Project will have two site access points on Coyote Ridge Road.

2.3 Trip Generation and Distribution

The following sections rely on data provided in the Institute of Transportation Engineers' (ITE) *Trip Generation Manual* (see References). Detailed trip generation calculations are provided in Appendix B.

2.3.1 Proposed Trip Generation

The North Bonneville roadway network will see some increase in volumes from the proposed uses. The trips generated by the site are estimated by treating the development as a "Hotel" land use code 310 and "General Light Industrial" land use code 110. The trip generation results are summarized in Table 4. The site trips are presented for the average weekday and the PM peak hour between 4:00 pm and 6:00 pm. The trips generated are estimates using the ITE fitted curve and average rate equations.

Land Use (ITE Code) General Light Industrial (110) Hotel (310) Independent Rooms 1,000 sf GFA Total **Variable** 80 170 Size **Average Daily Trips** 444 690 1,134 (ADT) **Peak Hour Trips PM Peak Hour PM Peak Hour PM Peak Hour** ln 16 8 24 Out 15 51 66

Table 4. ITE Trip Generation for Cascade Business Park

 $sf\ GFA = square\ foot\ gross\ floor\ area$

Total Trips

59

90

Findings: The Project is anticipated to generate a total of 1,134 vehicle trips during the weekday and a total of 90 vehicle trips during the PM peak hour.

2.3.2 Proposed Trip Distribution

The proposed distribution of the primary or net new trips is based on a review of the land uses within the study area, on the concentration of existing traffic patterns, and on engineering judgment. The proposed net new trip distribution pattern is as follows:

- 50% to and from SR-14 west of Cascade Drive
- 45% of trips to and from SR-14 east of Dam Access Road
 - o 20% to and from the Bridge of the Gods
- 5% to and from the southwest of Cascade Drive / Coyote Ridge Road

The distribution pattern above represents an external distribution of the net new trips entering and exiting the study area. The primary trip distribution and assignment of the project's net new trips are shown in Figure 6.

2.3.3 Future Volumes with Project

Figure 7 presents the 2035 With Project volumes, or the sum of Without Project volumes and the site-generated trips, for the weekday PM peak hour.

3 INTERSECTION OPERATIONS AND ROADWAY CAPACITY ANALYSES

3.1 Operations Description

Traffic operations are assessed in terms of LOS, a concept developed by transportation engineers to qualify the level of operation of intersections and roadways (*Highway Capacity Manual* (HCM), see References). LOS measures are classified in grades "A" through "F," indicating a range of operation, with LOS "A" signifying the best level of operation and LOS "F" representing the worst level.

LOS at unsignalized intersections is quantified in terms of average delay per vehicle. LOS "A" reflects full freedom of operation for a driver, while LOS "F" represents operational failure.

The volume-to-capacity (v/c) ratio quantifies the portion of the theoretical capacity consumed by traffic demand volume. A v/c ratio of zero (0.00) reflects none of the capacity is consumed and all the capacity is fully available. A v/c ratio of one (1.00) reflects all the capacity is consumed and represents operational failure. The v/c ratio can be calculated for an intersection approach lane or for a signalized intersection as a whole, with the latter calculation aggregating the v/c ratios of the critical movements.

3.2 Operation Standards

Per the WSDOT Design Manual Chapter 320.05 (see References), the minimum acceptable operation for rural facilities is LOS "C".

3.3 Analysis Methodology

The project's traffic impacts were estimated to determine the changes in traffic conditions. To make these determinations, the following were employed:

- The individual 2025 peak hour data were input as the basis for these analyses. They represent the 2025 Existing Conditions volumes.
- The peak hour factor (PHF) for the overall intersection, as calculated from the count data, was applied for the 2025 baseline analysis scenario and the future 2035 conditions.
- A minimum heavy vehicle percentage (HV%) of 2% was assumed for each movement for all analysis scenarios. The HV% calculated from the count data was applied if it was greater than 2%.
- Baseline traffic volumes on the surrounding street system were determined prior to adding the traffic
 impacts of the proposed project. This was done to establish a baseline for measuring the project
 impacts at the time of its development. Baseline traffic volume estimates were prepared for the year
 of buildout (2035 Without Project).
- As noted previously, trip generation estimates for the project were prepared for the weekday PM peak hours on the surrounding street system.
- Cumulative traffic impacts of the proposed project were determined by adding the project generated traffic to the baseline weekday PM peak traffic at all studied intersections. This is termed the 2035 With Project condition.
- The LOS for all two-way stop-controlled (TWSC) intersections was calculated with Trafficware's Synchro software, Version 11, based on HCM 6th Edition (see References) methodologies.

3.4 LOS Analyses

The following sections address operational conditions during the weekday PM peak hour. The first section below addresses the 2025 Existing Conditions scenario, that is, the present intersection operations without any development taking place on the site. Subsequent sections summarize operations in the future 2035 Without

Project scenario (without development on the site) and the 2035 With Project scenario (with the site fully developed as described above).

LOS calculation reports for the study area intersections are provided in Appendix C. The key analysis findings are listed in the following tables. LOS results that do not meet the WSDOT standard is shown in bold text.

3.4.1 2025 Existing Conditions

Table 5 describes the LOS for each intersection within the study area for the 2025 baseline volumes during the PM peak hour.

Table 5. Estimated 2025 LOS for Existing Conditions

| | | | | PM Peak Ho | our | |
|----|---|-----------------|-----------------------|------------|------------------|-----------------|
| | Intersection | Traffic Control | Operation Standard | LOS | Delay (s/veh) | v/c (lane) |
| 1. | Bonneville Drive / SR-14 | TWSC | LOS C | В | 12.4 | 0.10 (NB LT) |
| 2. | Dam Access Road / SR-14 | TWSC | LOS C | В | 14.2 | 0.09 (NB) |
| 3. | Cascade Drive / Coyote Ridge Road (Access) | TWSC | LOS C | А | 0 | NA |
| 4. | Fort Cascades Drive / Coyote Ridge Road (Access) | TWSC | LOS C | А | 0 | NA |
| 5. | Evergreen Drive / SR-14 | TWSC | LOS C | В | 11.9 | 0.03 (SB) |
| 6. | SR-14 / Bridge of the Gods | TWSC | LOS C | С | 18.9 | 0.53 (WB) |

NB: northbound; SB: southbound; WB: westbound; LT: left; NA: not applicable; s/veh: seconds per vehicle

As shown in Table 5, all studied intersections currently operate at an acceptable LOS and v/c ratio in the 2025 Existing Conditions during the weekday PM peak hour.

3.4.2 2035 Future Conditions Without Project

Table 6 describes the LOS for each intersection within the study area for the 2035 Without Project trips during the PM peak hour. The volumes for the Without Project conditions were calculated with a 1% background growth rate for each analysis year.

Table 6. Estimated 2035 LOS for Without Project Conditions

| | | | Operation | | PM Peak Ho | our |
|----|---|-----------------|-----------------------|-----|----------------|-----------------|
| | Intersection | Traffic Control | Operation Standard | LOS | Delay (sec) | v/c (lane) |
| 1. | Bonneville Drive / SR-14 | TWSC | LOS C | В | 13.2 | 0.12 (NB LT) |
| 2. | Dam Access Road / SR-14 | TWSC | LOS C | С | 15.3 | 0.11 (NB) |
| 3. | Cascade Drive / Coyote Ridge Road (Access) | TWSC | LOS C | А | 0 | NA |
| 4. | Coyote Ridge Road / Fort Cascades Drive (Access) | TWSC | LOS C | А | 0 | NA |
| 5. | Evergreen Drive / SR-14 | TWSC | LOS C | В | 12.4 | 0.03 (SB) |
| 6. | SR-14 / Bridge of the Gods | TWSC | LOS C | С | 22.9 | 0.61 (WB) |

NB: northbound; LT: left; SB: southbound; WB: westbound; NA: not applicable; s/veh: seconds per vehicle

As shown in Table 6, all studied intersections currently operate at an acceptable LOS and v/c ratio in the 2035 Without Project conditions during the weekday PM peak hour.

3.4.3 2035 Future Conditions With Project

Table 7 describes the LOS for each intersection within the study area for the 2035 With Project trips during the PM peak hour. The volumes for the With Project condition were calculated by adding the 2035 Without Project volumes with the Project's primary trip assignment.

Table 7. Estimated 2035 LOS for With Project Conditions

| | | | Omeration | | PM Peak Ho | ur |
|-------|---|-----------------|-----------------------|-----|----------------|-----------------|
| | Intersection | Traffic Control | Operation Standard | LOS | Delay (sec) | v/c (lane) |
| 1. Bc | onneville Drive / SR-14 | TWSC | LOS C | С | 15.0 | 0.22 (NB LT) |
| 2. Da | am Access Road / SR-14 | TWSC | LOS C | С | 16.4 | 0.15 (NB) |
| | ascade Drive / Coyote idge Road (Access) | TWSC | LOS C | А | 9.0 | 0.05 (WB) |

| | | | Operation | PM Peak Hour | | | | | |
|----|---|-----------------|-----------------------|--------------|----------------|---------------|--|--|--|
| | Intersection | Traffic Control | Operation Standard | LOS | Delay (sec) | v/c (lane) | | | |
| 4. | Coyote Ridge Road / Fort Cascades Drive (Access) | TWSC | LOS C | А | 9.0 | 0.06 (SB) | | | |
| 5. | Evergreen Drive / SR-14 | TWSC | LOS C | В | 12.9 | 0.04 (SB) | | | |
| 6. | SR-14 / Bridge of the Gods | TWSC | LOS C | D | 26.8 | 0.67 (WB) | | | |

NB: northbound; LT: left; SB: southbound; WB: westbound; NA: not applicable; s/veh: seconds per vehicle

As shown in Table 7, the SR-14 / Bridge of the Gods intersection is forecasted to exceed the acceptable operational standard in the 2035 With Project conditions during the weekday PM peak hour.

Findings: All studied intersections operate at an acceptable LOS in the 2025 Existing Conditions and the 2035 Without Project conditions and the SR-14 / Bridge of the Gods intersection fails in the 2035 With Project condition.

Recommendation: The SR-14 / Bridge of the Gods intersection will need to be closely monitored in the future. A signal, based on Warrant 3, is not met in the 2035 With or Without Project conditions.

3.4.4 LOS Analyses Results Discussion

The SR-14 / Bridge of the Gods intersection operates below the acceptable LOS standard under the 2035 With Project conditions. A signal warrant analysis was conducted based on Warrant 3 – Peak Hour, as outlined in Figure 4C-3 of the *Manual on Uniform Traffic Control Devices* (MUTCD). See Appendix F for details. The analysis indicates that the intersection does not currently meet the criteria to warrant signalization. Continued monitoring of this intersection is recommended to evaluate future operational needs as area traffic volumes change.

4 SAFETY ANALYSIS

4.1 Collision Analysis

Collision data from the study area were obtained from WSDOT for the five-year period spanning from January 2020 through December 2024. This collision analysis assumes that a collision rate less than the critical collision rate for the intersection is typically considered to be within acceptable parameters. A collision rate above the critical rate is worthy of further examination. To calculate the collision rate, the PM peak hour total entering volumes from the existing turning movement counts were multiplied by 10 to provide an approximation of the average daily traffic (ADT).

The detailed collision data, the calculations of the critical rates, and the calculations of the collision rates are provided in Appendix D. Table 8 presents the results of the collision analysis.

Table 8. Collision Analysis for Study Area Intersections (January 2020 through December 2024)

| Int. # | Intersection | Angle | Rear-end/ Sideswipe | Left Turn | Right Turn | Object | Total Collisions | Critical Rate | Collison Rate |
|-----------|--|-------|------------------------|-----------|------------|--------|---------------------|---------------|---------------|
| 1 | Bonneville Drive / SR-14 | 1 | | | | | | | |
| 2 | Dam Access Road / SR-14 | 1 | | | 1 | 3 | 4 | 0.34 | 0.93 |
| 3 | Cascade Drive / Coyote Ridge (Access) | | | | | | | | |
| 4 | Coyote Ridge / Fort Cascades Drive (Access) | | | | | | | | |
| 5 | Evergreen Drive / SR-14 | - | | | | | | | |
| 6 | SR-14 / Bridge of the Gods | 1 | 2 | 3 | | | 6 | 0.42 | 0.90 |

[&]quot;--" indicates no collisions reported.

As shown in Table 8, all the calculated collision rates are lower than the collision rates.

Findings: The 2020 to 2024 collision history at the study intersections was reviewed. All studied intersections have collision rates below the critical rate.

4.2 Pedestrian and Bicycle Facilities

Most roadways within North Bonneville have sidewalks or shared-use paths that accommodate both bicyclists and pedestrians. There are no bicycle or pedestrian facilities along SR-14.

Recommendation: Assure all driveways, sidewalks, and curb ramps constructed with the proposed project comply with the current Americans with Disabilities Act (ADA) guidelines.

4.3 Site Distance at Site Access Location

The Project's proposed site access does not currently exist, and sight distances were evaluated digitally. The generally flat terrain and slight grade increase along Coyote Ridge Road suggest that adequate sight distances should be achievable through design and construction of the proposed site access on Coyote Ridge Road.

The proposed site driveway on Coyote Ridge Road should be designed in accordance with Chapter 12.24.150 of the North Bonneville Municipal Code (NBMC, see References), based on the posted speed for Coyote Ridge Road of 25 miles per hour (mph). Install no objects within the sight distances triangles that would block exiting drivers' view of approaching traffic.

Findings: Digital review of the current conditions along Coyote Ridge Road suggests that adequate sight distances should be achievable through design and construction of the proposed site access.

Recommendations: Design the proposed site access along Coyote Ridge Road to meet NBMC 12.24.150 – sight obstruction requirements.

5 STUDY FINDINGS

The findings of this TIA are listed below.

5.1 Future Traffic Volumes Increase

Traffic volumes in the study area will continue to increase with or without the Project. Generic background growth is estimated to add approximately 1% annually to the baseline traffic volumes between the baseline year (2025) and the project year (2035).

5.2 Access and Circulation

The proposed Project will have two site access points on Coyote Ridge Road.

5.3 Trip Generation

The Cascade Business Park is anticipated to generate a total of 1,134 vehicle trips during the weekday and a total of 90 vehicle trips during the PM peak hour.

5.4 LOS Analysis

All studied intersections operate at an acceptable LOS in the 2025 Existing Conditions and the 2035 Without Project conditions and the SR-14 / Bridge of the Gods intersection fails in the 2035 With Project condition. This intersection will need to be closely monitored in the future.

5.5 Collision Analysis

The 2020 to 2024 collision history at the study intersections was reviewed. All studied intersections have collision rates below the critical rate.

5.6 Pedestrian and Bicycle Facilities

Assure all driveways, sidewalks, and curb ramps constructed with the proposed project comply with the current ADA guidelines.

5.7 Driveway Sight Distance

Digital review of the current conditions along Coyote Ridge Road suggests that adequate sight distances should be achievable through design and construction of the proposed site access.

6 RECOMMENDATIONS

No traffic-specific mitigation is required; however, the following general recommendations are made.

6.1 LOS Analysis

The SR-14 / Bridge of the Gods intersection will need to be closely monitored in the future. A signal, based on Warrant 3, is not met in the 2035 With or Without Project conditions.

6.2 Accessibility

Assure all driveways, sidewalks, and curb ramps constructed with the site development project comply with the current ADA guidelines.

6.3 Sight Distance

Design the proposed site access along Coyote Ridge Road to meet NBMC 12.24.150 – sight obstruction requirements.

7 REFERENCES

ADA Accessibility Guidelines. (2002). US Access Board. https://www.access-board.gov/adaag-1991-2002.html.

City of North Bonneville, Washington. (2018, July 24). North Bonneville Municipal Code.

ITE (Institute of Transportation Engineers). (2021). Trip Generation Manual, 11th Edition.

Transportation Research Board, National Research Council. (2016). *Highway Capacity Manual* (HCM), 6th Edition.

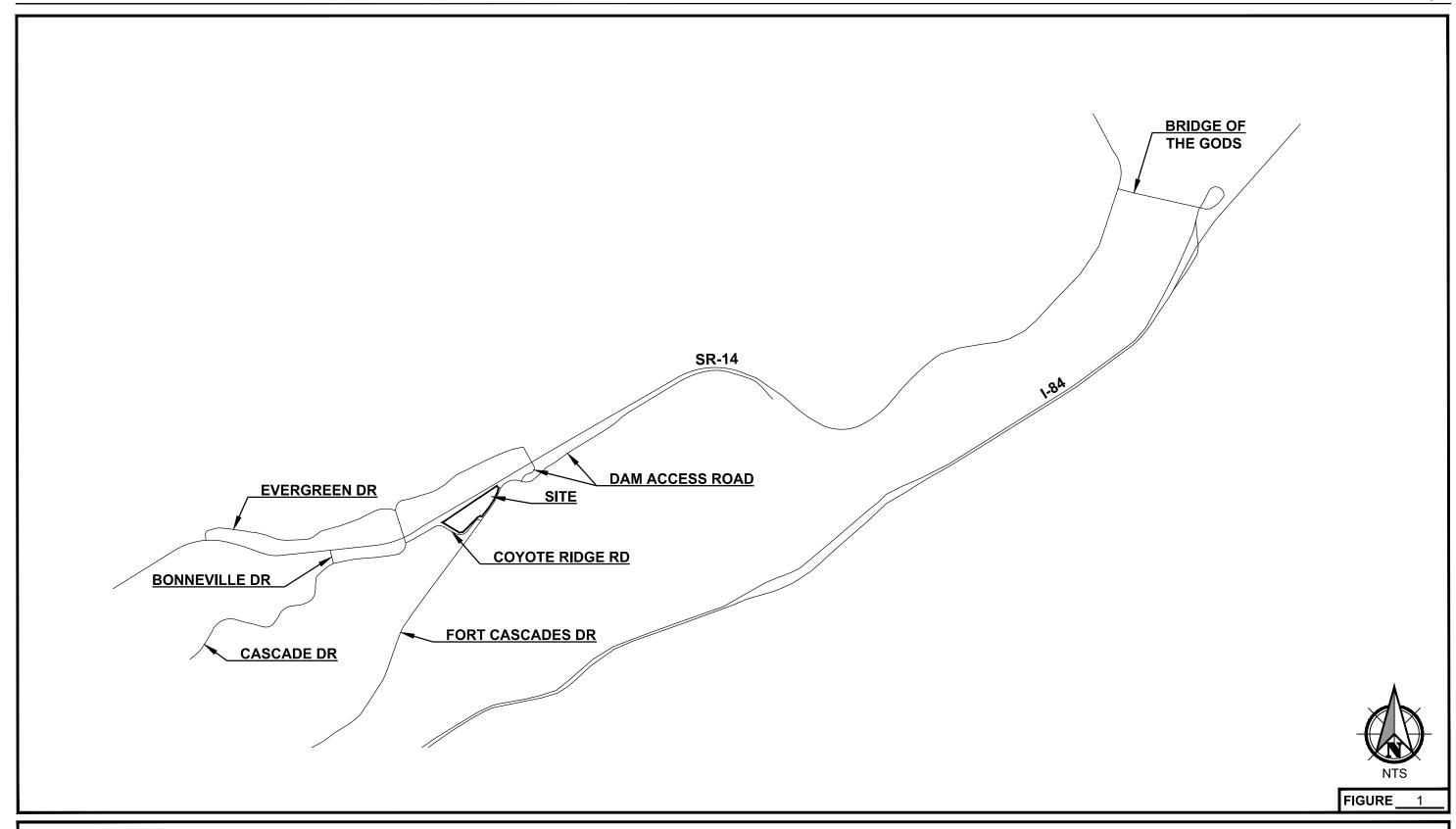
Skamania County *Comprehensive Plan* (July 10, 2007 – As amended through September 25, 2018). https://www.skamaniacounty.org/home/showpublisheddocument/1385/637122005286830000.

WSDOT (Washington State Department of Transportation). (2020, September). WSDOT Design Manual.

WSDOT (Washington State Department of Transportation). WSDOT Functional Classification Map. https://wsdot.wa.gov/data/tools/geoportal/?config=FunctionalClass.

Figures

Traffic Impact Analysis Port of Skamania



Vicinity Map Cascade Business Park



Traffic Impact Analysis
Port of Skamania
North Bonneville, Washington



CASCADE BUSINESS PARK, North Bonneville, WA

Conceptual Site Plan

05/25/21

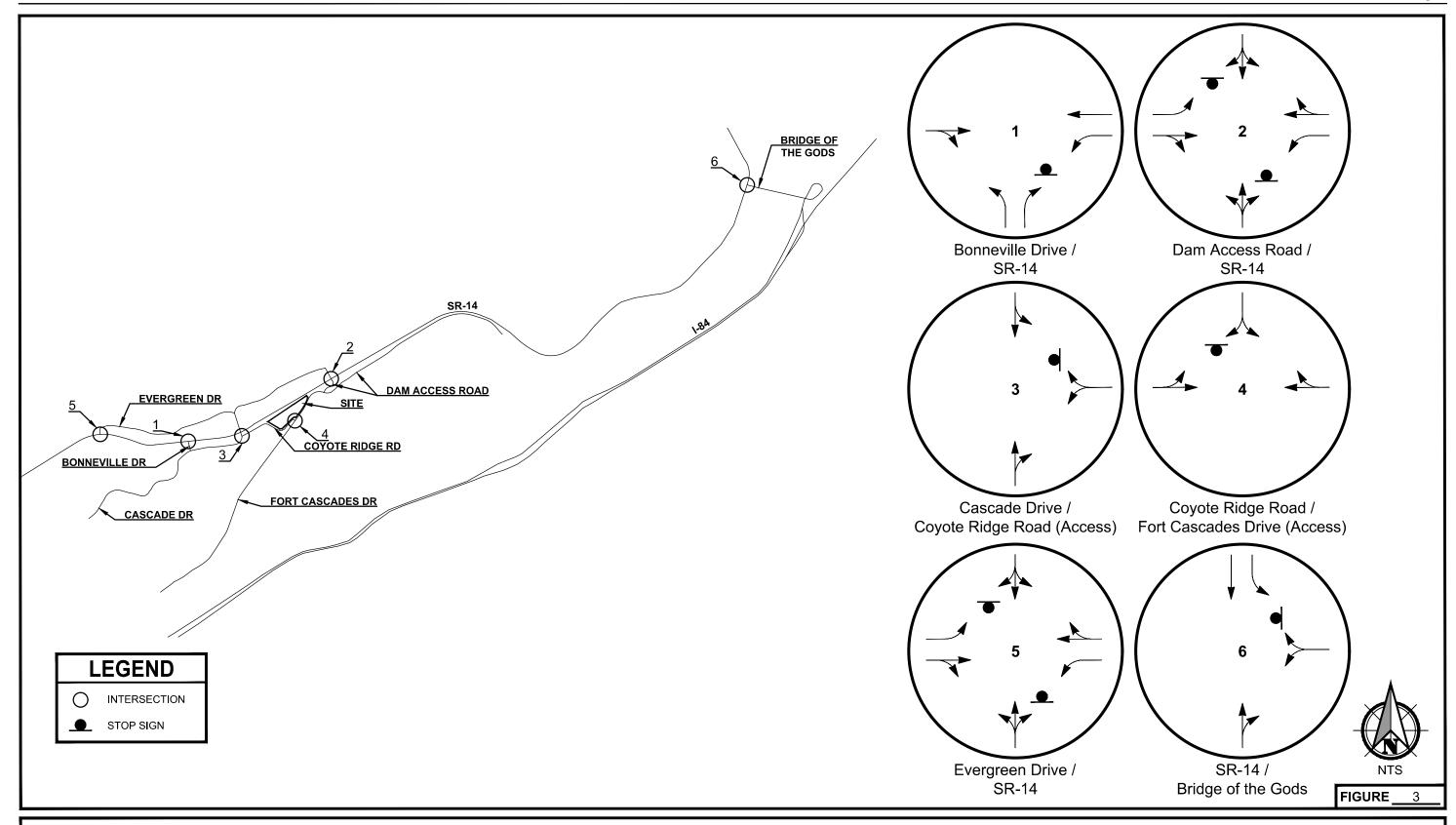




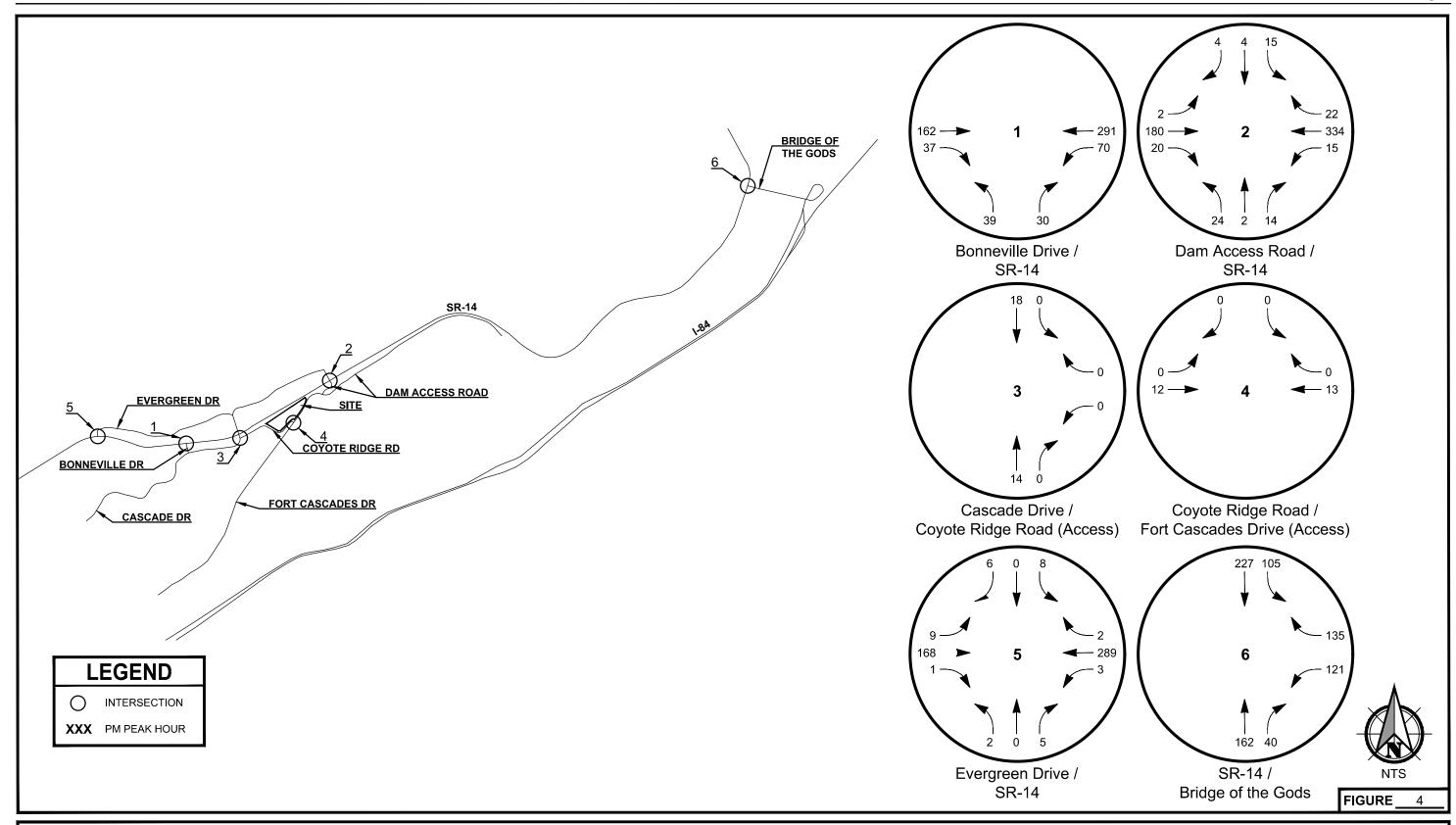
FIGURE 2

Site Plan
Cascade Business Park

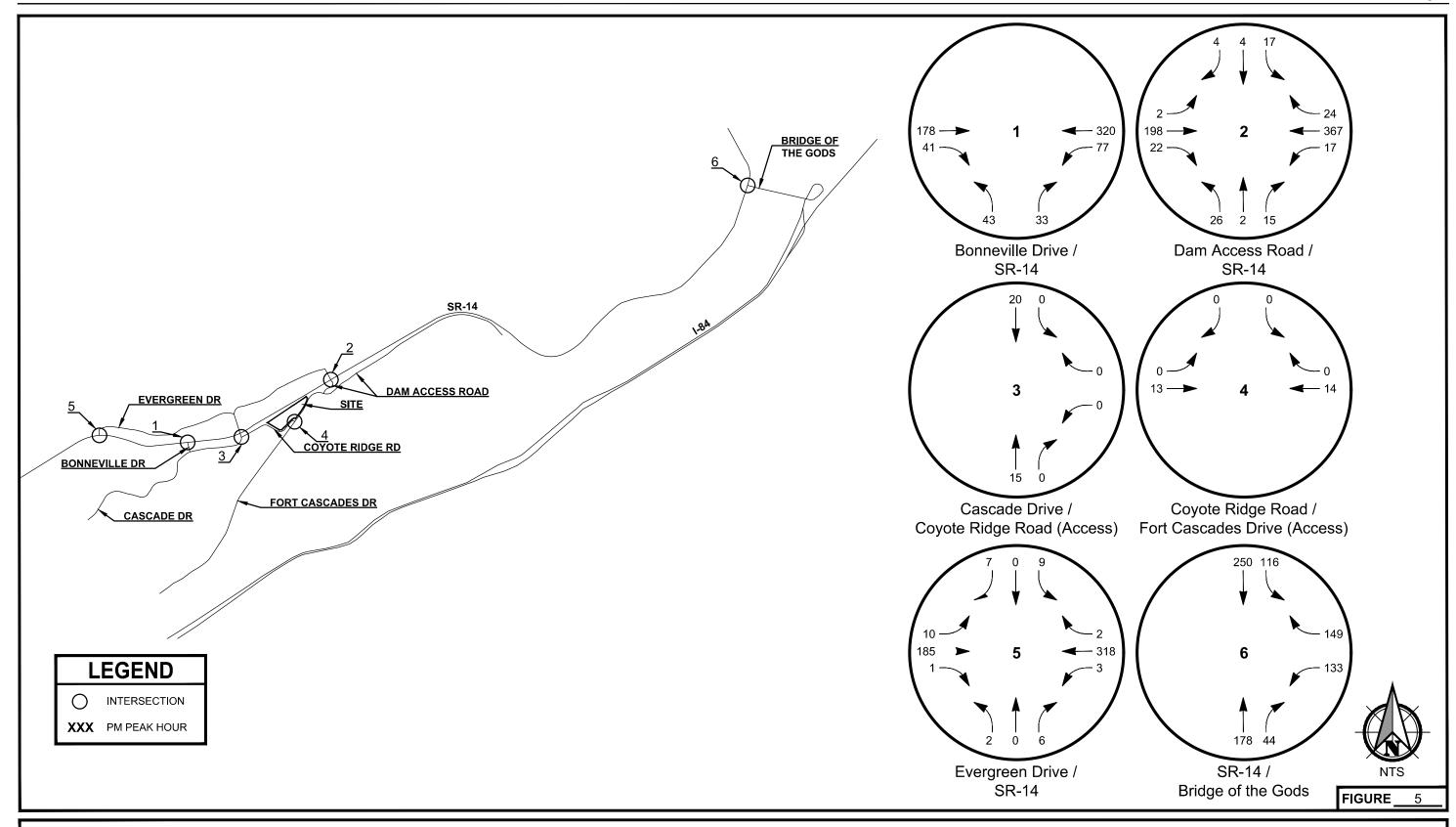




Existing Traffic Controls and Lane ConfigurationsCascade Business Park

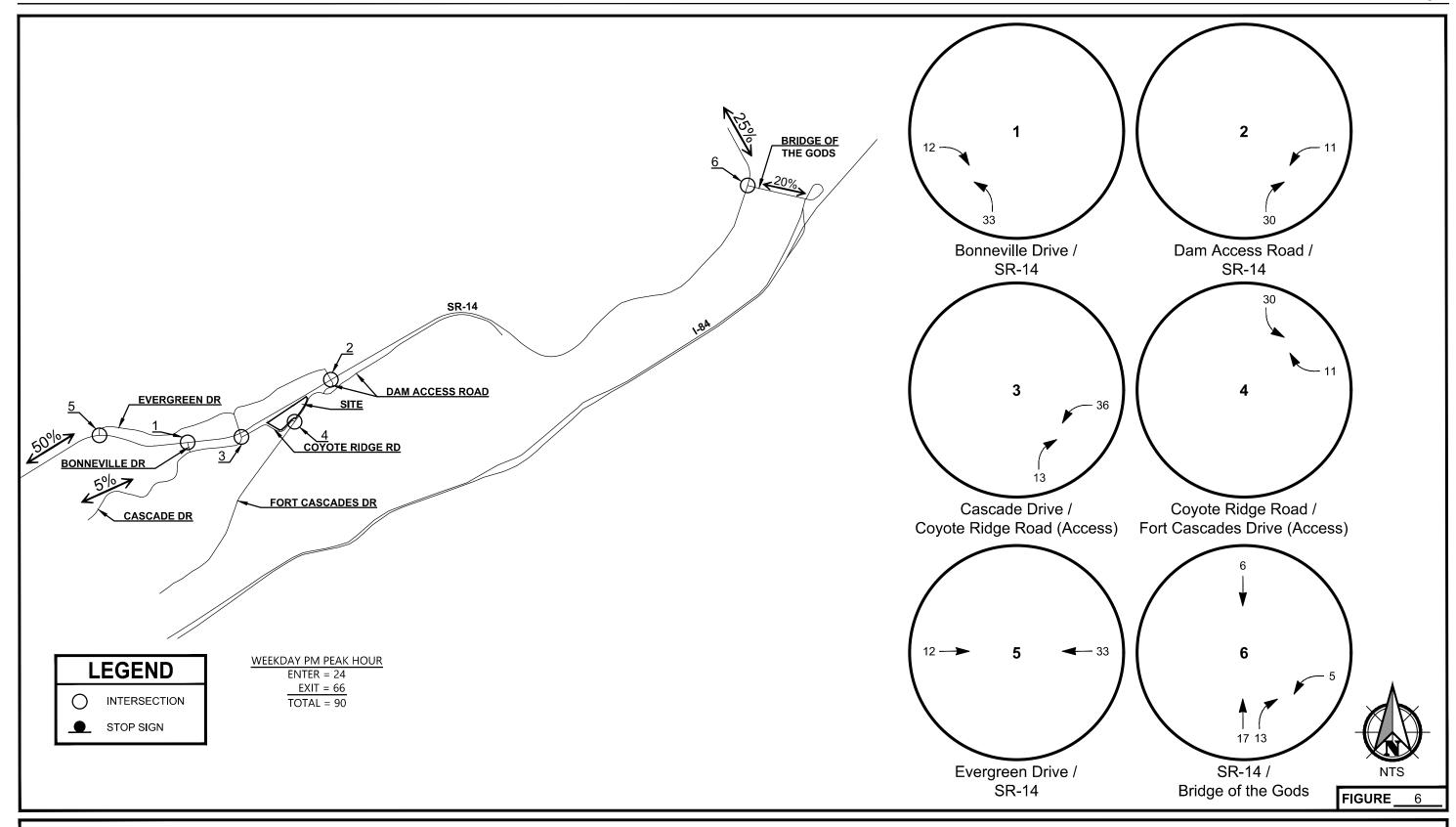


2025 Existing Volumes Cascade Business Park

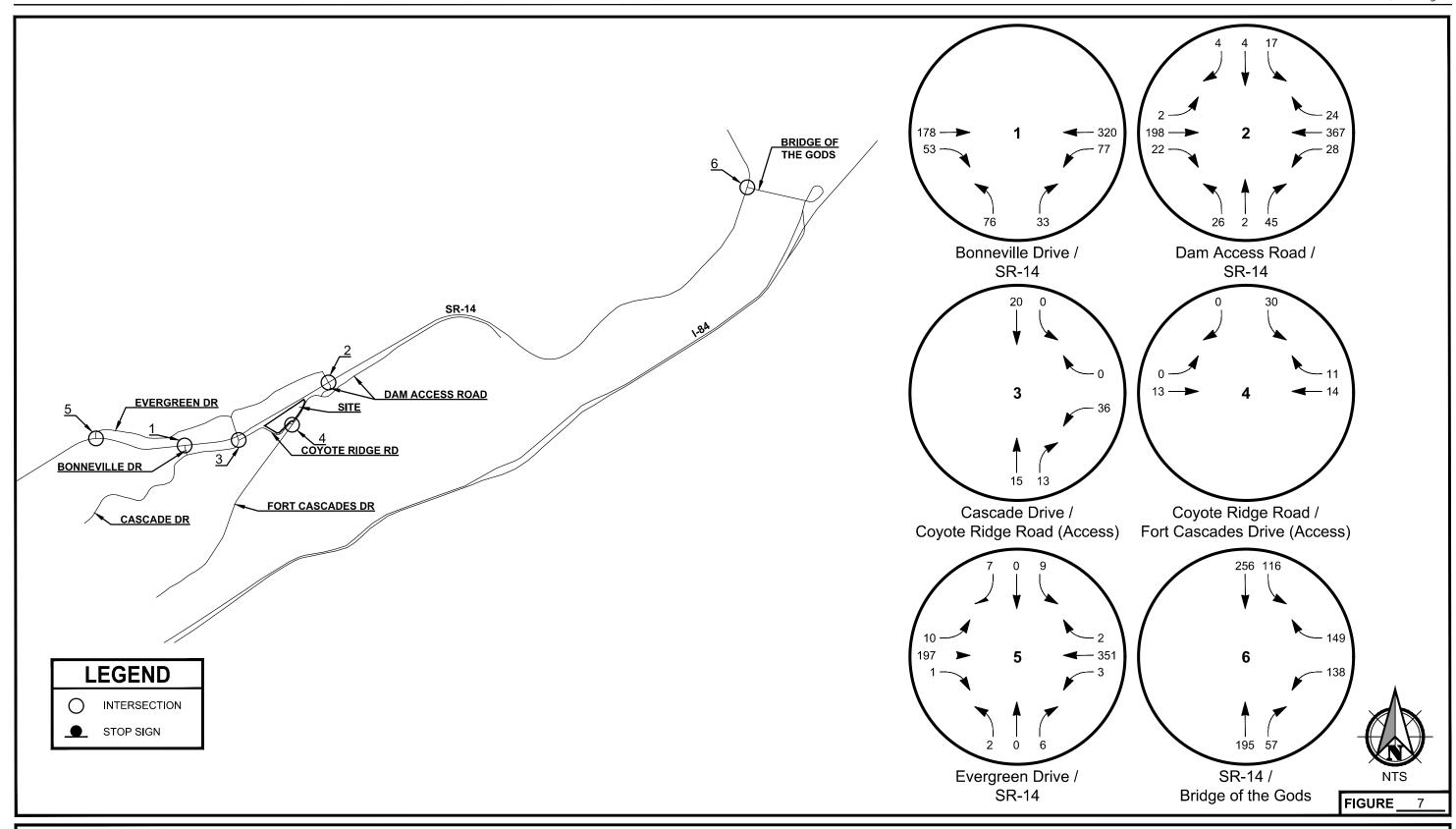


2035 Without Project Volumes Cascade Business Park





Trip Assignment and Distribution Cascade Business Park



2035 With Project Volumes Cascade Business Park



Appendix A Traffic Counts



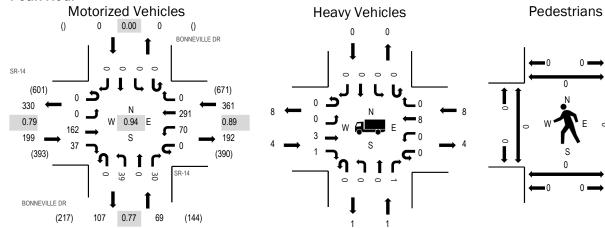
(303) 216-2439 www.alltrafficdata.net Location: 1 BONNEVILLE DR & SR-14 PM

Date: Tuesday, June 24, 2025

Peak Hour: 04:40 PM - 05:40 PM

Peak 15-Minutes: 05:15 PM - 05:30 PM

Peak Hour



Note: Total study counts contained in parentheses.

| | HV% | PHF |
|-----|------|------|
| EB | 2.0% | 0.79 |
| WB | 2.2% | 0.89 |
| NB | 1.4% | 0.77 |
| SB | 0.0% | 0.00 |
| All | 2.1% | 0.94 |

Traffic Counts - Motorized Vehicles

| manno ocamo | 141000 | 11204 | * 01110 | 100 | | | | | | | | | | | | | | |
|------------------------|--------|-------|---------------|-------|--------|------|---------------|-------|--------|------|---------------|-------|-----------------------------|------|------|-------|-------|-----------------|
| | | | R-14 | | | | R-14 | | | | /ILLE DR | | BONNEVILLE DR Southbound | | | | | D !!: |
| Interval Start Time | U-Turn | Left | bound Thru | Right | U-Turn | Left | bound Thru | Right | U-Turn | Left | bound Thru | Right | U-Turn | Left | Thru | Right | Total | Rolling Hour |
| 4:00 PM | 0 | 0 | 12 | 4 | 0 | 5 | 20 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 45 | 608 |
| 4:05 PM | 0 | 0 | 7 | 6 | 0 | 5 | 29 | 0 | 0 | 4 | 0 | 5 | 0 | 0 | 0 | 0 | 56 | 618 |
| 4:10 PM | 0 | 0 | 11 | 2 | 0 | 4 | 21 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 43 | 614 |
| 4:15 PM | 0 | 0 | 16 | 3 | 0 | 8 | 20 | 0 | 0 | 2 | 0 | 8 | 0 | 0 | 0 | 0 | 57 | 621 |
| 4:20 PM | 0 | 0 | 18 | 3 | 0 | 7 | 24 | 0 | 0 | 2 | 0 | 6 | 0 | 0 | 0 | 0 | 60 | 626 |
| 4:25 PM | 0 | 0 | 11 | 5 | 0 | 2 | 29 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 52 | 612 |
| 4:30 PM | 0 | 0 | 8 | 4 | 0 | 7 | 20 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 44 | 619 |
| 4:35 PM | 0 | 0 | 18 | 5 | 0 | 3 | 15 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 43 | 620 |
| 4:40 PM | 0 | 0 | 14 | 2 | 0 | 10 | 32 | 0 | 0 | 6 | 0 | 3 | 0 | 0 | 0 | 0 | 67 | 629 |
| 4:45 PM | 0 | 0 | 19 | 3 | 0 | 3 | 25 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 54 | 600 |
| 4:50 PM | 0 | 0 | 5 | 1 | 0 | 4 | 19 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 37 | 595 |
| 4:55 PM | 0 | 0 | 15 | 2 | 0 | 1 | 30 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 50 | 605 |
| 5:00 PM | 0 | 0 | 19 | 4 | 0 | 3 | 22 | 0 | 0 | 5 | 0 | 2 | 0 | 0 | 0 | 0 | 55 | 600 |
| 5:05 PM | 0 | 0 | 14 | 3 | 0 | 7 | 26 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 52 | |
| 5:10 PM | 0 | 0 | 7 | 1 | 0 | 9 | 29 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 50 | |
| 5:15 PM | 0 | 0 | 20 | 4 | 0 | 9 | 21 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 62 | |
| 5:20 PM | 0 | 0 | 11 | 3 | 0 | 2 | 22 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 46 | |
| 5:25 PM | 0 | 0 | 21 | 8 | 0 | 9 | 17 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 59 | |
| 5:30 PM | 0 | 0 | 9 | 3 | 0 | 3 | 23 | 0 | 0 | 4 | 0 | 3 | 0 | 0 | 0 | 0 | 45 | |
| 5:35 PM | 0 | 0 | 8 | 3 | 0 | 10 | 25 | 0 | 0 | 4 | 0 | 2 | 0 | 0 | 0 | 0 | 52 | |
| 5:40 PM | 0 | 0 | 9 | 3 | 0 | 3 | 18 | 0 | 0 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 38 | |
| 5:45 PM | 0 | 0 | 13 | 3 | 0 | 10 | 15 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 49 | |
| 5:50 PM | 0 | 0 | 14 | 7 | 0 | 5 | 17 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 47 | |
| 5:55 PM | 0 | 0 | 11 | 1 | 0 | 5 | 18 | 0 | 0 | 4 | 0 | 6 | 0 | 0 | 0 | 0 | 45 | |
| Count Total | 0 | 0 | 310 | 83 | 0 | 134 | 537 | 0 | 0 | 64 | 0 | 80 | 0 | 0 | 0 | 0 | 1,208 | _ |
| Peak Hour | 0 | 0 | 162 | 37 | 0 | 70 | 291 | 0 | 0 | 39 | 0 | 30 | 0 | 0 | 0 | 0 | 629 |) |

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk

| Interval | | Hea | avy Vehicl | es | | Interval | | Bicycle | es on Road | dway | | Interval | Pedestrians/Bicycles on Crosswalk | | | | | |
|-------------|----|-----|------------|----|-------|-------------|----|---------|------------|------|-------|-------------|-----------------------------------|----|----|----|-------|--|
| Start Time | EB | NB | WB | SB | Total | Start Time | EB | NB | WB | SB | Total | Start Time | EB | NB | WB | SB | Total | |
| 4:00 PM | 0 | 0 | 1 | 0 | 1 | 4:00 PM | 0 | 0 | 0 | 0 | 0 | 4:00 PM | 0 | 0 | 0 | 0 | 0 | |
| 4:05 PM | 0 | 0 | 0 | 0 | 0 | 4:05 PM | 0 | 0 | 0 | 0 | 0 | 4:05 PM | 0 | 0 | 0 | 0 | 0 | |
| 4:10 PM | 1 | 0 | 0 | 0 | 1 | 4:10 PM | 0 | 0 | 0 | 0 | 0 | 4:10 PM | 0 | 0 | 0 | 0 | 0 | |
| 4:15 PM | 0 | 0 | 1 | 0 | 1 | 4:15 PM | 0 | 0 | 0 | 0 | 0 | 4:15 PM | 0 | 0 | 0 | 0 | 0 | |
| 4:20 PM | 1 | 0 | 0 | 0 | 1 | 4:20 PM | 0 | 0 | 0 | 0 | 0 | 4:20 PM | 0 | 0 | 0 | 0 | 0 | |
| 4:25 PM | 0 | 0 | 0 | 0 | 0 | 4:25 PM | 0 | 0 | 0 | 0 | 0 | 4:25 PM | 0 | 0 | 0 | 0 | 0 | |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 4:30 PM | 0 | 0 | 0 | 0 | 0 | 4:30 PM | 0 | 0 | 0 | 0 | 0 | |
| 4:35 PM | 1 | 0 | 0 | 0 | 1 | 4:35 PM | 0 | 0 | 0 | 0 | 0 | 4:35 PM | 0 | 0 | 0 | 0 | 0 | |
| 4:40 PM | 0 | 0 | 3 | 0 | 3 | 4:40 PM | 0 | 0 | 0 | 0 | 0 | 4:40 PM | 0 | 0 | 0 | 0 | 0 | |
| 4:45 PM | 1 | 0 | 0 | 0 | 1 | 4:45 PM | 0 | 0 | 0 | 0 | 0 | 4:45 PM | 0 | 0 | 0 | 0 | 0 | |
| 4:50 PM | 0 | 0 | 0 | 0 | 0 | 4:50 PM | 0 | 0 | 0 | 0 | 0 | 4:50 PM | 0 | 0 | 0 | 0 | 0 | |
| 4:55 PM | 0 | 0 | 0 | 0 | 0 | 4:55 PM | 0 | 0 | 0 | 0 | 0 | 4:55 PM | 0 | 0 | 0 | 0 | 0 | |
| 5:00 PM | 0 | 0 | 1 | 0 | 1 | 5:00 PM | 0 | 0 | 0 | 0 | 0 | 5:00 PM | 0 | 0 | 0 | 0 | 0 | |
| 5:05 PM | 1 | 0 | 0 | 0 | 1 | 5:05 PM | 0 | 0 | 0 | 0 | 0 | 5:05 PM | 0 | 0 | 0 | 0 | 0 | |
| 5:10 PM | 0 | 0 | 1 | 0 | 1 | 5:10 PM | 0 | 0 | 0 | 0 | 0 | 5:10 PM | 0 | 0 | 0 | 0 | 0 | |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 5:15 PM | 0 | 0 | 0 | 0 | 0 | 5:15 PM | 0 | 0 | 0 | 0 | 0 | |
| 5:20 PM | 0 | 0 | 2 | 0 | 2 | 5:20 PM | 0 | 0 | 0 | 0 | 0 | 5:20 PM | 0 | 0 | 0 | 0 | 0 | |
| 5:25 PM | 1 | 0 | 0 | 0 | 1 | 5:25 PM | 0 | 0 | 0 | 0 | 0 | 5:25 PM | 0 | 0 | 0 | 0 | 0 | |
| 5:30 PM | 0 | 0 | 1 | 0 | 1 | 5:30 PM | 0 | 0 | 0 | 0 | 0 | 5:30 PM | 0 | 0 | 0 | 0 | 0 | |
| 5:35 PM | 1 | 1 | 0 | 0 | 2 | 5:35 PM | 0 | 0 | 0 | 0 | 0 | 5:35 PM | 0 | 0 | 0 | 0 | 0 | |
| 5:40 PM | 1 | 0 | 0 | 0 | 1 | 5:40 PM | 0 | 0 | 0 | 0 | 0 | 5:40 PM | 0 | 0 | 0 | 0 | 0 | |
| 5:45 PM | 1 | 0 | 0 | 0 | 1 | 5:45 PM | 0 | 0 | 0 | 0 | 0 | 5:45 PM | 0 | 0 | 0 | 0 | 0 | |
| 5:50 PM | 1 | 0 | 0 | 0 | 1 | 5:50 PM | 0 | 0 | 0 | 0 | 0 | 5:50 PM | 0 | 0 | 0 | 0 | 0 | |
| 5:55 PM | 0 | 0 | 0 | 0 | 0 | 5:55 PM | 0 | 0 | 0 | 0 | 0 | 5:55 PM | 0 | 0 | 0 | 0 | 0 | |
| Count Total | 10 | 1 | 10 | 0 | 21 | Count Total | 0 | 0 | 0 | 0 | 0 | Count Total | 0 | 0 | 0 | 0 | 0 | |
| Peak Hour | 4 | 1 | 8 | 0 | 13 | Peak Hour | 0 | 0 | 0 | 0 | 0 | Peak Hour | 0 | 0 | 0 | 0 | 0 | |



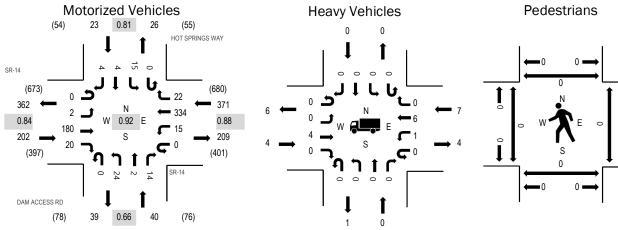
(303) 216-2439 www.alltrafficdata.net Location: 2 DAM ACCESS RD & SR-14 PM

Date: Tuesday, June 24, 2025

Peak Hour: 04:15 PM - 05:15 PM

Peak 15-Minutes: 05:00 PM - 05:15 PM

Peak Hour



Note: Total study counts contained in parentheses.

| | HV% | PHF |
|-----|------|------|
| EB | 2.0% | 0.84 |
| WB | 1.9% | 0.88 |
| NB | 0.0% | 0.66 |
| SB | 0.0% | 0.81 |
| All | 1.7% | 0.92 |

Traffic Counts - Motorized Vehicles

| manno ocunto | 141000 | 11204 | 101110 | 100 | | | | | | | | | | | | | | |
|--------------|--------|-------|--------|-------|--------|------|-------|-------|--------|------|---------|-------|--------|------|--------|-------|-------|---------|
| | | | R-14 | | | | R-14 | | I | | CESS RE |) | H | | NGS WA | Y | | |
| Interval | | | oound | | | | bound | | | | bound | | | | bound | | | Rolling |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | Total | Hour |
| 4:00 PM | 0 | 0 | 18 | 2 | 0 | 2 | 30 | 2 | 0 | 2 | 0 | 1 | 0 | 4 | 0 | 0 | 61 | 623 |
| 4:05 PM | 0 | 0 | 13 | 1 | 0 | 1 | 22 | 2 | 0 | 5 | 1 | 0 | 0 | 3 | 0 | 1 | 49 | 619 |
| 4:10 PM | 0 | 2 | 10 | 2 | 0 | 2 | 24 | 3 | 0 | 2 | 1 | 0 | 0 | 2 | 0 | 1 | 49 | 626 |
| 4:15 PM | 0 | 0 | 23 | 2 | 0 | 1 | 26 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 54 | 636 |
| 4:20 PM | 0 | 0 | 20 | 2 | 0 | 1 | 35 | 4 | 0 | 0 | 1 | 3 | 0 | 1 | 0 | 0 | 67 | 632 |
| 4:25 PM | 0 | 0 | 11 | 0 | 0 | 2 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 42 | 612 |
| 4:30 PM | 0 | 0 | 13 | 2 | 0 | 0 | 22 | 4 | 0 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 46 | 628 |
| 4:35 PM | 0 | 0 | 17 | 1 | 0 | 0 | 25 | 1 | 0 | 3 | 0 | 0 | 0 | 1 | 2 | 0 | 50 | 617 |
| 4:40 PM | 0 | 0 | 16 | 1 | 0 | 1 | 28 | 1 | 0 | 5 | 1 | 2 | 0 | 0 | 0 | 1 | 56 | 617 |
| 4:45 PM | 0 | 0 | 19 | 3 | 0 | 1 | 27 | 3 | 0 | 0 | 0 | 2 | 0 | 3 | 0 | 0 | 58 | 600 |
| 4:50 PM | 0 | 0 | 9 | 1 | 0 | 3 | 26 | 2 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 44 | 582 |
| 4:55 PM | 0 | 0 | 14 | 4 | 0 | 1 | 25 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 47 | 586 |
| 5:00 PM | 0 | 2 | 15 | 2 | 0 | 0 | 24 | 5 | 0 | 4 | 0 | 2 | 0 | 2 | 1 | 0 | 57 | 584 |
| 5:05 PM | 0 | 0 | 13 | 2 | 0 | 5 | 29 | 0 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 1 | 56 | |
| 5:10 PM | 0 | 0 | 10 | 0 | 0 | 0 | 41 | 2 | 0 | 1 | 0 | 2 | 0 | 2 | 1 | 0 | 59 | |
| 5:15 PM | 0 | 1 | 14 | 2 | 0 | 1 | 24 | 3 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 0 | 50 | |
| 5:20 PM | 0 | 0 | 16 | 1 | 0 | 0 | 24 | 3 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 47 | |
| 5:25 PM | 0 | 0 | 21 | 5 | 0 | 1 | 23 | 2 | 0 | 1 | 0 | 0 | 0 | 4 | 0 | 1 | 58 | |
| 5:30 PM | 0 | 0 | 9 | 0 | 0 | 1 | 21 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 35 | |
| 5:35 PM | 0 | 0 | 13 | 0 | 0 | 0 | 30 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 2 | 0 | 50 | |
| 5:40 PM | 0 | 1 | 12 | 2 | 0 | 0 | 19 | 3 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 39 | |
| 5:45 PM | 0 | 0 | 8 | 1 | 0 | 1 | 22 | 2 | 0 | 3 | 0 | 2 | 0 | 0 | 0 | 1 | 40 | |
| 5:50 PM | 0 | 1 | 14 | 4 | 0 | 2 | 22 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 48 | |
| 5:55 PM | 0 | 0 | 18 | 4 | 0 | 1 | 15 | 1 | 0 | 2 | 1 | 0 | 0 | 1 | 0 | 2 | 45 | |
| Count Total | 0 | 7 | 346 | 44 | 0 | 27 | 610 | 43 | 0 | 50 | 5 | 21 | 0 | 34 | 7 | 13 | 1,207 | |
| Peak Hour | 0 | 2 | 180 | 20 | 0 | 15 | 334 | 22 | 0 | 24 | 2 | 14 | 0 | 15 | 4 | 4 | 636 | _ |
| | | | | | | | | | | | | | | | | | | - |

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk

| Interval | | Hea | avy Vehicle | es | | Interval | | Bicycle | es on Road | dway | | Interval Pedestrians/Bicycles on Crosswa | | | | | |
|-------------|----|-----|-------------|----|-------|-------------|----|---------|------------|------|-------|--|----|----|----|----|-------|
| Start Time | EB | NB | WB | SB | Total | Start Time | EB | NB | WB | SB | Total | Start Time | EB | NB | WB | SB | Total |
| 4:00 PM | 0 | 0 | 1 | 0 | 1 | 4:00 PM | 0 | 0 | 0 | 0 | 0 | 4:00 PM | 0 | 0 | 0 | 0 | 0 |
| 4:05 PM | 0 | 0 | 0 | 0 | 0 | 4:05 PM | 0 | 0 | 0 | 0 | 0 | 4:05 PM | 0 | 0 | 0 | 0 | 0 |
| 4:10 PM | 1 | 0 | 0 | 0 | 1 | 4:10 PM | 0 | 0 | 0 | 0 | 0 | 4:10 PM | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 1 | 0 | 1 | 4:15 PM | 0 | 0 | 0 | 0 | 0 | 4:15 PM | 0 | 0 | 0 | 0 | 0 |
| 4:20 PM | 1 | 0 | 0 | 0 | 1 | 4:20 PM | 0 | 0 | 0 | 0 | 0 | 4:20 PM | 0 | 0 | 0 | 0 | 0 |
| 4:25 PM | 0 | 0 | 0 | 0 | 0 | 4:25 PM | 0 | 0 | 0 | 0 | 0 | 4:25 PM | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 4:30 PM | 0 | 0 | 0 | 0 | 0 | 4:30 PM | 0 | 0 | 0 | 0 | 0 |
| 4:35 PM | 1 | 0 | 2 | 0 | 3 | 4:35 PM | 0 | 0 | 0 | 0 | 0 | 4:35 PM | 0 | 0 | 0 | 0 | 0 |
| 4:40 PM | 0 | 0 | 1 | 0 | 1 | 4:40 PM | 0 | 0 | 0 | 0 | 0 | 4:40 PM | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 1 | 0 | 0 | 0 | 1 | 4:45 PM | 0 | 0 | 0 | 0 | 0 | 4:45 PM | 0 | 0 | 0 | 0 | 0 |
| 4:50 PM | 0 | 0 | 0 | 0 | 0 | 4:50 PM | 0 | 0 | 0 | 0 | 0 | 4:50 PM | 0 | 0 | 0 | 0 | 0 |
| 4:55 PM | 0 | 0 | 1 | 0 | 1 | 4:55 PM | 0 | 0 | 0 | 0 | 0 | 4:55 PM | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 5:00 PM | 0 | 0 | 0 | 0 | 0 | 5:00 PM | 0 | 0 | 0 | 0 | 0 |
| 5:05 PM | 1 | 0 | 1 | 0 | 2 | 5:05 PM | 0 | 0 | 0 | 0 | 0 | 5:05 PM | 0 | 0 | 0 | 0 | 0 |
| 5:10 PM | 0 | 0 | 1 | 0 | 1 | 5:10 PM | 0 | 0 | 0 | 0 | 0 | 5:10 PM | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 1 | 0 | 1 | 5:15 PM | 0 | 0 | 0 | 0 | 0 | 5:15 PM | 0 | 0 | 0 | 0 | 0 |
| 5:20 PM | 0 | 0 | 1 | 0 | 1 | 5:20 PM | 0 | 0 | 0 | 0 | 0 | 5:20 PM | 0 | 0 | 0 | 0 | 0 |
| 5:25 PM | 0 | 0 | 0 | 0 | 0 | 5:25 PM | 0 | 0 | 0 | 0 | 0 | 5:25 PM | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 1 | 0 | 0 | 1 | 5:30 PM | 0 | 0 | 0 | 0 | 0 | 5:30 PM | 0 | 0 | 0 | 0 | 0 |
| 5:35 PM | 2 | 0 | 0 | 0 | 2 | 5:35 PM | 0 | 0 | 0 | 0 | 0 | 5:35 PM | 0 | 0 | 0 | 0 | 0 |
| 5:40 PM | 1 | 0 | 0 | 0 | 1 | 5:40 PM | 0 | 0 | 0 | 0 | 0 | 5:40 PM | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 5:45 PM | 0 | 0 | 0 | 0 | 0 | 5:45 PM | 0 | 0 | 0 | 0 | 0 |
| 5:50 PM | 2 | 0 | 0 | 0 | 2 | 5:50 PM | 0 | 0 | 0 | 0 | 0 | 5:50 PM | 0 | 0 | 0 | 0 | 0 |
| 5:55 PM | 0 | 0 | 0 | 0 | 0 | 5:55 PM | 0 | 1 | 0 | 0 | 1 | 5:55 PM | 0 | 0 | 0 | 0 | 0 |
| Count Total | 10 | 1 | 10 | 0 | 21 | Count Total | 0 | 1 | 0 | 0 | 1 | Count Total | 0 | 0 | 0 | 0 | 0 |
| Peak Hour | 4 | 0 | 7 | 0 | 11 | Peak Hour | 0 | 0 | 0 | 0 | 0 | Peak Hour | 0 | 0 | 0 | 0 | 0 |



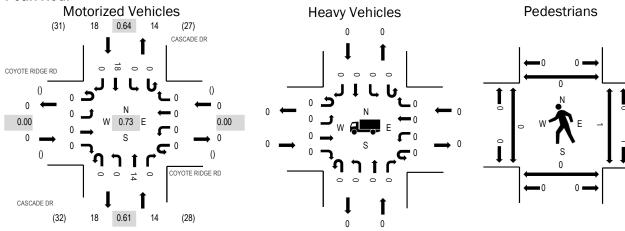
(303) 216-2439 www.alltrafficdata.net Location: 3 CASCADE DR & COYOTE RIDGE RD PM

Date: Tuesday, June 24, 2025

Peak Hour: 04:00 PM - 05:00 PM

Peak 15-Minutes: 04:40 PM - 04:55 PM

Peak Hour



Note: Total study counts contained in parentheses.

| | HV% | PHF |
|-----|------|------|
| EB | 0.0% | 0.00 |
| WB | 0.0% | 0.00 |
| NB | 0.0% | 0.61 |
| SB | 0.0% | 0.64 |
| All | 0.0% | 0.73 |

Traffic Counts - Motorized Vehicles

| Interval | С | | RIDGE F | RD | C | | RIDGE F | RD | | | ADE DR | | | CASCA South | DE DR | | | Rolling |
|-------------|--------|------|---------|-------|--------|------|---------|-------|--------|------|--------|-------|--------|----------------|-------|-------|-------|---------|
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | Total | Hour |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 4 | 32 |
| 4:05 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 0 | 5 | 31 |
| 4:10 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 26 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 29 |
| 4:20 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 29 |
| 4:25 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 0 | 5 | 29 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 24 |
| 4:35 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 25 |
| 4:40 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 5 | 27 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 26 |
| 4:50 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 4 | 27 |
| 4:55 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 3 | 27 |
| 5:05 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 5:10 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 4 | |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | |
| 5:20 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | |
| 5:25 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 3 | |
| 5:35 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | |
| 5:40 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 4 | |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | |
| 5:50 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | |
| 5:55 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | |
| Count Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 27 | 0 | 0 | 0 | 31 | 0 | 59 | _ |
| Peak Hour | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 18 | 0 | 32 | _ |

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk

| Interval | | Hea | avy Vehicle | es | | Interval | | Bicycle | es on Road | dway | | Interval Pedestrians/Bicycles on Crosswall | | | | | | |
|-------------|----|-----|-------------|----|-------|-------------|----|---------|------------|------|-------|--|----|----|----|----|-------|--|
| Start Time | EB | NB | WB | SB | Total | Start Time | EB | NB | WB | SB | Total | Start Time | EB | NB | WB | SB | Total | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 4:00 PM | 0 | 0 | 0 | 0 | 0 | 4:00 PM | 0 | 0 | 0 | 0 | 0 | |
| 4:05 PM | 0 | 0 | 0 | 0 | 0 | 4:05 PM | 0 | 0 | 0 | 0 | 0 | 4:05 PM | 0 | 0 | 0 | 0 | 0 | |
| 4:10 PM | 0 | 0 | 0 | 0 | 0 | 4:10 PM | 0 | 0 | 0 | 0 | 0 | 4:10 PM | 0 | 0 | 0 | 0 | 0 | |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 4:15 PM | 0 | 0 | 0 | 0 | 0 | 4:15 PM | 0 | 0 | 1 | 0 | 1 | |
| 4:20 PM | 0 | 0 | 0 | 0 | 0 | 4:20 PM | 0 | 0 | 0 | 0 | 0 | 4:20 PM | 0 | 0 | 0 | 0 | 0 | |
| 4:25 PM | 0 | 0 | 0 | 0 | 0 | 4:25 PM | 0 | 0 | 0 | 0 | 0 | 4:25 PM | 0 | 0 | 0 | 0 | 0 | |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 4:30 PM | 0 | 0 | 0 | 0 | 0 | 4:30 PM | 0 | 0 | 0 | 0 | 0 | |
| 4:35 PM | 0 | 0 | 0 | 0 | 0 | 4:35 PM | 0 | 0 | 0 | 0 | 0 | 4:35 PM | 0 | 0 | 1 | 0 | 1 | |
| 4:40 PM | 0 | 0 | 0 | 0 | 0 | 4:40 PM | 0 | 0 | 0 | 0 | 0 | 4:40 PM | 0 | 0 | 0 | 0 | 0 | |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 4:45 PM | 0 | 0 | 0 | 0 | 0 | 4:45 PM | 0 | 0 | 0 | 0 | 0 | |
| 4:50 PM | 0 | 0 | 0 | 0 | 0 | 4:50 PM | 0 | 0 | 0 | 0 | 0 | 4:50 PM | 0 | 0 | 0 | 0 | 0 | |
| 4:55 PM | 0 | 0 | 0 | 0 | 0 | 4:55 PM | 0 | 0 | 0 | 0 | 0 | 4:55 PM | 0 | 0 | 0 | 0 | 0 | |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 5:00 PM | 0 | 0 | 0 | 0 | 0 | 5:00 PM | 0 | 0 | 0 | 0 | 0 | |
| 5:05 PM | 0 | 0 | 0 | 0 | 0 | 5:05 PM | 0 | 0 | 0 | 0 | 0 | 5:05 PM | 0 | 0 | 0 | 0 | 0 | |
| 5:10 PM | 0 | 0 | 0 | 0 | 0 | 5:10 PM | 0 | 0 | 0 | 0 | 0 | 5:10 PM | 0 | 0 | 0 | 0 | 0 | |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 5:15 PM | 0 | 0 | 0 | 0 | 0 | 5:15 PM | 0 | 0 | 0 | 0 | 0 | |
| 5:20 PM | 0 | 0 | 0 | 0 | 0 | 5:20 PM | 0 | 0 | 0 | 0 | 0 | 5:20 PM | 0 | 0 | 0 | 0 | 0 | |
| 5:25 PM | 0 | 0 | 0 | 0 | 0 | 5:25 PM | 0 | 0 | 0 | 0 | 0 | 5:25 PM | 0 | 0 | 0 | 0 | 0 | |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 5:30 PM | 0 | 0 | 0 | 0 | 0 | 5:30 PM | 0 | 0 | 0 | 0 | 0 | |
| 5:35 PM | 0 | 0 | 0 | 0 | 0 | 5:35 PM | 0 | 0 | 0 | 0 | 0 | 5:35 PM | 0 | 0 | 0 | 0 | 0 | |
| 5:40 PM | 0 | 0 | 0 | 0 | 0 | 5:40 PM | 0 | 0 | 0 | 0 | 0 | 5:40 PM | 0 | 0 | 0 | 0 | 0 | |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 5:45 PM | 0 | 0 | 0 | 0 | 0 | 5:45 PM | 0 | 0 | 0 | 0 | 0 | |
| 5:50 PM | 0 | 0 | 0 | 0 | 0 | 5:50 PM | 0 | 0 | 0 | 0 | 0 | 5:50 PM | 0 | 0 | 0 | 0 | 0 | |
| 5:55 PM | 0 | 0 | 0 | 0 | 0 | 5:55 PM | 0 | 0 | 0 | 0 | 0 | 5:55 PM | 0 | 0 | 0 | 0 | 0 | |
| Count Total | 0 | 0 | 0 | 0 | 0 | Count Total | 0 | 0 | 0 | 0 | 0 | Count Total | 0 | 0 | 2 | 0 | 2 | |
| Peak Hour | 0 | 0 | 0 | 0 | 0 | Peak Hour | 0 | 0 | 0 | 0 | 0 | Peak Hour | 0 | 0 | 2 | 0 | 2 | |



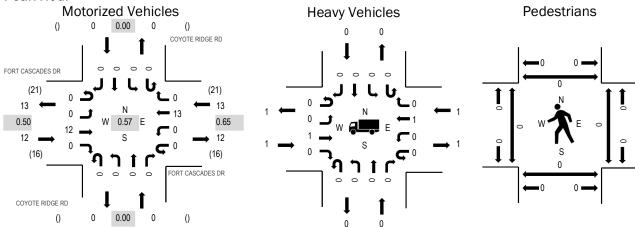
(303) 216-2439 www.alltrafficdata.net **Location:** 4 COYOTE RIDGE RD & FORT CASCADES DR PM

Date: Tuesday, June 24, 2025

Peak Hour: 04:30 PM - 05:30 PM

Peak 15-Minutes: 04:50 PM - 05:05 PM

Peak Hour



Note: Total study counts contained in parentheses.

| | HV% | PHF |
|-----|------|------|
| EB | 8.3% | 0.50 |
| WB | 7.7% | 0.65 |
| NB | 0.0% | 0.00 |
| SB | 0.0% | 0.00 |
| All | 8.0% | 0.57 |

Traffic Counts - Motorized Vehicles

| manno ocumo | 141000 | 11204 | * 01110 | ,,,,,, | | | | | | | | | | | | | | |
|-------------|--------|-------|---------|--------|--------|------|--------|-------|--------|------|---------|-------|--------|------|---------|-------|-------|---------|
| | F | | SCADES | DR | F | | SCADES | DR | С | | RIDGE R | lD. | C | | RIDGE R | D | | |
| Interval | | | bound | | | | bound | | | | bound | | | | bound | | | Rolling |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | Total | Hour |
| 4:00 PM | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 20 |
| 4:05 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 22 |
| 4:10 PM | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 22 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| 4:20 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| 4:25 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| 4:30 PM | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 25 |
| 4:35 PM | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 23 |
| 4:40 PM | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 21 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 20 |
| 4:50 PM | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 20 |
| 4:55 PM | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 18 |
| 5:00 PM | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 17 |
| 5:05 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| 5:10 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 5:20 PM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | |
| 5:25 PM | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 5:35 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| 5:40 PM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| 5:50 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| 5:55 PM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | |
| Count Total | 0 | 0 | 16 | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 | _ |
| Peak Hour | 0 | 0 | 12 | 0 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | |
| - | | | | | | | | | | | | | | | | | | _ |

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk

| Interval | | Hea | avy Vehicle | es | | Interval | | Bicycle | es on Road | lway | | Interval | Ped | destrians/E | Bicycles on | Crosswa | lk |
|-------------|----|-----|-------------|----|-------|-------------|----|---------|------------|------|-------|-------------|-----|-------------|-------------|---------|-------|
| Start Time | EB | NB | WB | SB | Total | Start Time | EB | NB | WB | SB | Total | Start Time | EB | NB | WB | SB | Total |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 4:00 PM | 0 | 0 | 0 | 0 | 0 | 4:00 PM | 0 | 0 | 0 | 0 | 0 |
| 4:05 PM | 0 | 0 | 0 | 0 | 0 | 4:05 PM | 0 | 0 | 0 | 0 | 0 | 4:05 PM | 0 | 0 | 0 | 0 | 0 |
| 4:10 PM | 0 | 0 | 0 | 0 | 0 | 4:10 PM | 0 | 0 | 0 | 0 | 0 | 4:10 PM | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 4:15 PM | 0 | 0 | 0 | 0 | 0 | 4:15 PM | 0 | 0 | 0 | 0 | 0 |
| 4:20 PM | 0 | 0 | 0 | 0 | 0 | 4:20 PM | 0 | 0 | 0 | 0 | 0 | 4:20 PM | 0 | 0 | 0 | 0 | 0 |
| 4:25 PM | 0 | 0 | 0 | 0 | 0 | 4:25 PM | 0 | 0 | 0 | 0 | 0 | 4:25 PM | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 4:30 PM | 0 | 0 | 0 | 0 | 0 | 4:30 PM | 0 | 0 | 0 | 0 | 0 |
| 4:35 PM | 0 | 0 | 0 | 0 | 0 | 4:35 PM | 0 | 0 | 0 | 0 | 0 | 4:35 PM | 0 | 0 | 0 | 0 | 0 |
| 4:40 PM | 0 | 0 | 0 | 0 | 0 | 4:40 PM | 0 | 0 | 0 | 0 | 0 | 4:40 PM | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 4:45 PM | 0 | 0 | 0 | 0 | 0 | 4:45 PM | 0 | 0 | 0 | 0 | 0 |
| 4:50 PM | 0 | 0 | 0 | 0 | 0 | 4:50 PM | 0 | 0 | 0 | 0 | 0 | 4:50 PM | 0 | 0 | 0 | 0 | 0 |
| 4:55 PM | 0 | 0 | 0 | 0 | 0 | 4:55 PM | 0 | 0 | 0 | 0 | 0 | 4:55 PM | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 5:00 PM | 0 | 0 | 0 | 0 | 0 | 5:00 PM | 0 | 0 | 0 | 0 | 0 |
| 5:05 PM | 0 | 0 | 1 | 0 | 1 | 5:05 PM | 0 | 0 | 0 | 0 | 0 | 5:05 PM | 0 | 0 | 0 | 0 | 0 |
| 5:10 PM | 0 | 0 | 0 | 0 | 0 | 5:10 PM | 0 | 0 | 0 | 0 | 0 | 5:10 PM | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 5:15 PM | 0 | 0 | 0 | 0 | 0 | 5:15 PM | 0 | 0 | 0 | 0 | 0 |
| 5:20 PM | 0 | 0 | 0 | 0 | 0 | 5:20 PM | 0 | 0 | 0 | 0 | 0 | 5:20 PM | 0 | 0 | 0 | 0 | 0 |
| 5:25 PM | 1 | 0 | 0 | 0 | 1 | 5:25 PM | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 5:30 PM | 0 | 0 | 0 | 0 | 0 | 5:30 PM | 0 | 0 | 0 | 0 | 0 |
| 5:35 PM | 0 | 0 | 0 | 0 | 0 | 5:35 PM | 0 | 0 | 0 | 0 | 0 | 5:35 PM | 0 | 0 | 0 | 0 | 0 |
| 5:40 PM | 0 | 0 | 0 | 0 | 0 | 5:40 PM | 0 | 0 | 0 | 0 | 0 | 5:40 PM | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 5:45 PM | 0 | 0 | 0 | 0 | 0 | 5:45 PM | 0 | 0 | 0 | 0 | 0 |
| 5:50 PM | 0 | 0 | 0 | 0 | 0 | 5:50 PM | 0 | 0 | 0 | 0 | 0 | 5:50 PM | 0 | 0 | 0 | 0 | 0 |
| 5:55 PM | 0 | 0 | 0 | 0 | 0 | 5:55 PM | 0 | 0 | 0 | 0 | 0 | 5:55 PM | 1 | 1 | 0 | 0 | 2 |
| Count Total | 1 | 0 | 1 | 0 | 2 | Count Total | 0 | 0 | 0 | 0 | 0 | Count Total | 1 | 1 | 0 | 0 | 2 |
| Peak Hour | 1 | 0 | 1 | 0 | 2 | Peak Hour | 0 | 0 | 0 | 0 | 0 | Peak Hour | 0 | 0 | 0 | 0 | 0 |



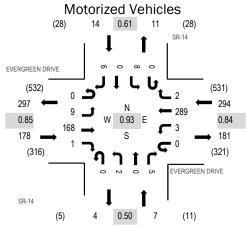
(303) 216-2439 www.alltrafficdata.net **Location:** 5 SR-14 & EVERGREEN DRIVE PM

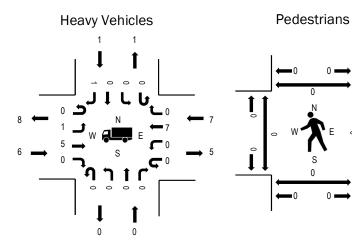
Date: Tuesday, July 15, 2025

Peak Hour: 04:15 PM - 05:15 PM

Peak 15-Minutes: 04:45 PM - 05:00 PM

Peak Hour





Note: Total study counts contained in parentheses.

| | HV% | PHF |
|-----|------|------|
| EB | 3.4% | 0.85 |
| WB | 2.4% | 0.84 |
| NB | 0.0% | 0.50 |
| SB | 7.1% | 0.61 |
| All | 2.8% | 0.93 |

Traffic Counts - Motorized Vehicles

| Interval | E | | EEN DRI bound | VE | E | | EEN DRI bound | VE | | | l-14 ibound | | | | l-14 nbound | | | Rolling |
|-------------|--------|------|------------------|-------|--------|------|------------------|-------|--------|------|----------------|-------|--------|------|----------------|-------|-------|---------|
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | Total | Hour |
| 4:00 PM | 0 | 0 | 19 | 0 | 0 | 0 | 13 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 34 | 47 |
| 4:05 PM | 0 | 1 | 8 | 0 | 0 | 1 | 24 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 36 | 48 |
| 4:10 PM | 0 | 0 | 8 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 35 | 48 |
| 4:15 PM | 0 | 1 | 9 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 36 | 49 |
| 4:20 PM | 0 | 0 | 21 | 0 | 0 | 1 | 18 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 43 | 48 |
| 4:25 PM | 0 | 1 | 13 | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 35 | 47 |
| 4:30 PM | 0 | 2 | 16 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41 | 47 |
| 4:35 PM | 0 | 1 | 6 | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 33 | 46 |
| 4:40 PM | 0 | 0 | 11 | 0 | 0 | 1 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 46 | 46 |
| 4:45 PM | 0 | 1 | 9 | 0 | 0 | 0 | 35 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 46 | 45 |
| 4:50 PM | 0 | 0 | 15 | 0 | 0 | 1 | 18 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 1 | 38 | 44 |
| 4:55 PM | 0 | 2 | 20 | 0 | 0 | 0 | 25 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 48 | 43 |
| 5:00 PM | 0 | 1 | 12 | 1 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 44 | 41 |
| 5:05 PM | 0 | 0 | 16 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 40 | |
| 5:10 PM | 0 | 0 | 20 | 0 | 0 | 0 | 21 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 43 | |
| 5:15 PM | 0 | 0 | 13 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 29 | |
| 5:20 PM | 0 | 0 | 5 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 34 | |
| 5:25 PM | 0 | 0 | 15 | 0 | 0 | 0 | 17 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 35 | |
| 5:30 PM | 0 | 2 | 13 | 0 | 0 | 0 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 31 | |
| 5:35 PM | 0 | 1 | 10 | 0 | 0 | 0 | 13 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 31 | |
| 5:40 PM | 0 | 0 | 9 | 0 | 0 | 0 | 22 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 34 | |
| 5:45 PM | 0 | 0 | 15 | 0 | 0 | 0 | 26 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 | |
| 5:50 PM | 0 | 0 | 10 | 0 | 0 | 0 | 16 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | |
| 5:55 PM | 0 | 1 | 8 | 0 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 24 | |
| Count Total | 0 | 14 | 301 | 1 | 0 | 4 | 513 | 14 | 0 | 4 | 0 | 7 | 0 | 13 | 0 | 15 | 886 | |
| Peak Hour | 0 | 9 | 168 | 1 | 0 | 3 | 289 | 2 | 0 | 2 | 0 | 5 | 0 | 8 | 0 | 6 | 493 | |

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk

| Interval | | Hea | avy Vehicle | es | | Interval | | Bicycle | es on Road | dway | | Interval | Ped | destrians/E | Bicycles on | Crosswa | lk |
|-------------|----|-----|-------------|----|-------|-------------|----|---------|------------|------|-------|-------------|-----|-------------|-------------|---------|-------|
| Start Time | EB | NB | WB | SB | Total | Start Time | EB | NB | WB | SB | Total | Start Time | EB | NB | WB | SB | Total |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 4:00 PM | 0 | 0 | 0 | 0 | 0 | 4:00 PM | 0 | 0 | 0 | 0 | 0 |
| 4:05 PM | 0 | 0 | 0 | 0 | 0 | 4:05 PM | 0 | 0 | 0 | 0 | 0 | 4:05 PM | 0 | 0 | 0 | 0 | 0 |
| 4:10 PM | 1 | 0 | 1 | 0 | 2 | 4:10 PM | 0 | 0 | 0 | 0 | 0 | 4:10 PM | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 4:15 PM | 0 | 0 | 0 | 0 | 0 | 4:15 PM | 0 | 0 | 0 | 0 | 0 |
| 4:20 PM | 0 | 0 | 0 | 0 | 0 | 4:20 PM | 0 | 0 | 0 | 0 | 0 | 4:20 PM | 0 | 0 | 0 | 0 | 0 |
| 4:25 PM | 1 | 0 | 1 | 0 | 2 | 4:25 PM | 0 | 0 | 0 | 0 | 0 | 4:25 PM | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 2 | 0 | 0 | 0 | 2 | 4:30 PM | 0 | 0 | 0 | 0 | 0 | 4:30 PM | 0 | 0 | 0 | 0 | 0 |
| 4:35 PM | 1 | 0 | 0 | 0 | 1 | 4:35 PM | 0 | 0 | 0 | 0 | 0 | 4:35 PM | 0 | 0 | 0 | 0 | 0 |
| 4:40 PM | 0 | 0 | 0 | 0 | 0 | 4:40 PM | 0 | 0 | 0 | 0 | 0 | 4:40 PM | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 1 | 0 | 1 | 0 | 2 | 4:45 PM | 0 | 0 | 0 | 0 | 0 | 4:45 PM | 0 | 0 | 0 | 0 | 0 |
| 4:50 PM | 0 | 0 | 1 | 1 | 2 | 4:50 PM | 0 | 0 | 0 | 0 | 0 | 4:50 PM | 0 | 0 | 0 | 0 | 0 |
| 4:55 PM | 1 | 0 | 0 | 0 | 1 | 4:55 PM | 0 | 0 | 0 | 0 | 0 | 4:55 PM | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 5:00 PM | 0 | 0 | 0 | 0 | 0 | 5:00 PM | 0 | 0 | 0 | 0 | 0 |
| 5:05 PM | 0 | 0 | 2 | 0 | 2 | 5:05 PM | 0 | 0 | 0 | 0 | 0 | 5:05 PM | 0 | 0 | 0 | 0 | 0 |
| 5:10 PM | 0 | 0 | 2 | 0 | 2 | 5:10 PM | 0 | 0 | 0 | 0 | 0 | 5:10 PM | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 5:15 PM | 0 | 0 | 0 | 0 | 0 | 5:15 PM | 0 | 0 | 0 | 0 | 0 |
| 5:20 PM | 0 | 0 | 0 | 0 | 0 | 5:20 PM | 0 | 0 | 0 | 0 | 0 | 5:20 PM | 0 | 0 | 0 | 0 | 0 |
| 5:25 PM | 1 | 0 | 0 | 0 | 1 | 5:25 PM | 0 | 0 | 0 | 0 | 0 | 5:25 PM | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 5:30 PM | 0 | 0 | 0 | 0 | 0 | 5:30 PM | 0 | 0 | 0 | 0 | 0 |
| 5:35 PM | 0 | 0 | 1 | 0 | 1 | 5:35 PM | 0 | 0 | 0 | 0 | 0 | 5:35 PM | 0 | 0 | 0 | 0 | 0 |
| 5:40 PM | 0 | 0 | 0 | 0 | 0 | 5:40 PM | 0 | 0 | 0 | 0 | 0 | 5:40 PM | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 1 | 0 | 0 | 0 | 1 | 5:45 PM | 0 | 0 | 0 | 0 | 0 | 5:45 PM | 0 | 0 | 0 | 0 | 0 |
| 5:50 PM | 1 | 0 | 0 | 0 | 1 | 5:50 PM | 0 | 0 | 0 | 0 | 0 | 5:50 PM | 0 | 0 | 0 | 0 | 0 |
| 5:55 PM | 0 | 0 | 0 | 0 | 0 | 5:55 PM | 0 | 0 | 0 | 0 | 0 | 5:55 PM | 0 | 0 | 0 | 0 | 0 |
| Count Total | 10 | 0 | 9 | 1 | 20 | Count Total | 0 | 0 | 0 | 0 | 0 | Count Total | 0 | 0 | 0 | 0 | 0 |
| Peak Hour | 6 | 0 | 7 | 1 | 14 | Peak Hour | 0 | 0 | 0 | 0 | 0 | Peak Hour | 0 | 0 | 0 | 0 | 0 |



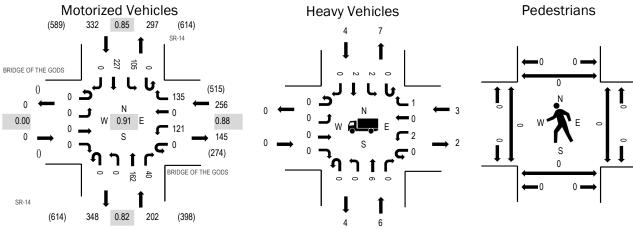
(303) 216-2439 www.alltrafficdata.net **Location:** 6 SR-14 & BRIDGE OF THE GODS PM

Date: Tuesday, July 15, 2025

Peak Hour: 04:00 PM - 05:00 PM

Peak 15-Minutes: 04:25 PM - 04:40 PM

Peak Hour



Note: Total study counts contained in parentheses.

| | HV% | PHF |
|-----|------|------|
| EB | 0.0% | 0.00 |
| WB | 1.2% | 0.88 |
| NB | 3.0% | 0.82 |
| SB | 1.2% | 0.85 |
| All | 1.6% | 0.91 |

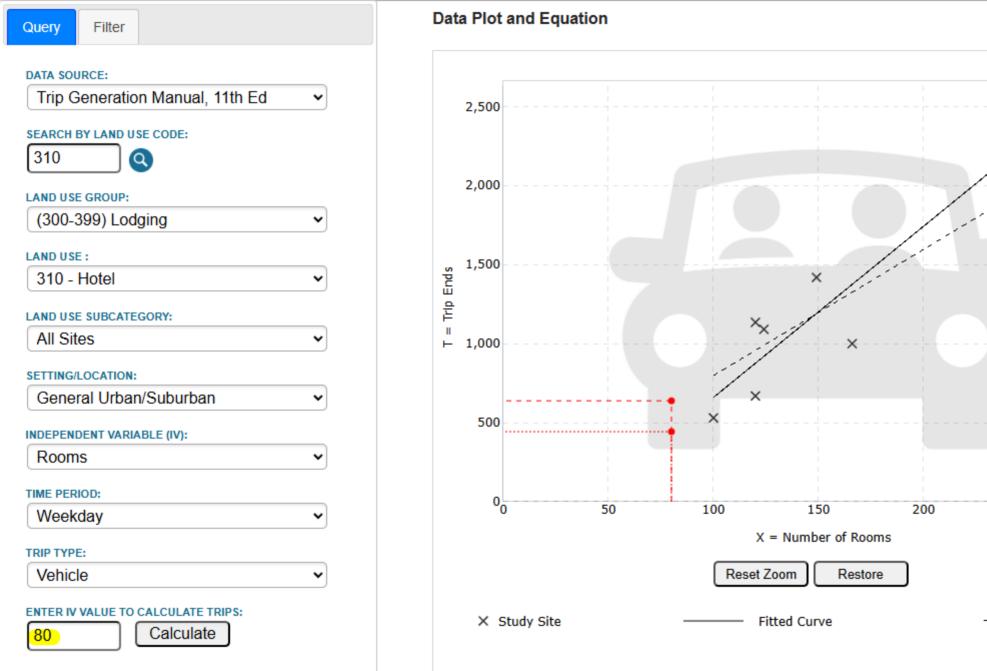
Traffic Counts - Motorized Vehicles

| Interval | | Eastl | F THE GO | | | West | F THE GO | | | North | l-14 ibound | | | | bound | | | Rolling |
|-------------|--------|-------|----------|-------|--------|------|----------|-------|--------|-------|----------------|-------|--------|------|-------|-------|-------|---------|
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | Total | Hour |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 9 | 0 | 0 | 19 | 4 | 0 | 10 | 23 | 0 | 73 | 790 |
| 4:05 PM | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 12 | 0 | 0 | 17 | 2 | 0 | 8 | 17 | 0 | 64 | 776 |
| 4:10 PM | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 11 | 0 | 0 | 15 | 3 | 0 | 7 | 20 | 0 | 70 | 778 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 18 | 0 | 0 | 8 | 4 | 0 | 11 | 17 | 0 | 64 | 771 |
| 4:20 PM | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 11 | 0 | 0 | 11 | 4 | 0 | 8 | 16 | 0 | 59 | 783 |
| 4:25 PM | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 11 | 0 | 0 | 19 | 5 | 0 | 10 | 20 | 0 | 74 | 777 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 15 | 0 | 0 | 15 | 2 | 0 | 9 | 22 | 0 | 72 | 745 |
| 4:35 PM | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 12 | 0 | 0 | 15 | 1 | 0 | 12 | 20 | 0 | 72 | 730 |
| 4:40 PM | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 11 | 0 | 0 | 6 | 0 | 0 | 10 | 25 | 0 | 67 | 723 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 11 | 0 | 0 | 14 | 3 | 0 | 6 | 12 | 0 | 55 | 72 |
| 4:50 PM | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 6 | 0 | 0 | 7 | 4 | 0 | 7 | 17 | 0 | 54 | 72 |
| 4:55 PM | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 8 | 0 | 0 | 16 | 8 | 0 | 7 | 18 | 0 | 66 | 73 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 7 | 0 | 0 | 18 | 4 | 0 | 5 | 13 | 0 | 59 | 71 |
| 5:05 PM | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 14 | 0 | 0 | 17 | 3 | 0 | 7 | 16 | 0 | 66 | |
| 5:10 PM | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 12 | 0 | 0 | 16 | 2 | 0 | 11 | 13 | 0 | 63 | |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 13 | 0 | 0 | 15 | 10 | 0 | 9 | 20 | 0 | 76 | |
| 5:20 PM | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 11 | 0 | 0 | 16 | 1 | 0 | 8 | 9 | 0 | 53 | |
| 5:25 PM | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 13 | 0 | 0 | 3 | 1 | 0 | 8 | 9 | 0 | 42 | |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 14 | 0 | 0 | 14 | 2 | 0 | 8 | 11 | 0 | 57 | |
| 5:35 PM | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 12 | 0 | 0 | 14 | 2 | 0 | 10 | 13 | 0 | 65 | |
| 5:40 PM | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 17 | 0 | 0 | 10 | 0 | 0 | 14 | 22 | 0 | 69 | |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 10 | 0 | 0 | 14 | 4 | 0 | 6 | 12 | 0 | 53 | |
| 5:50 PM | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 12 | 0 | 0 | 20 | 1 | 0 | 6 | 16 | 0 | 62 | |
| 5:55 PM | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 18 | 0 | 0 | 7 | 2 | 0 | 5 | 6 | 0 | 47 | |
| Count Total | 0 | 0 | 0 | 0 | 0 | 227 | 0 | 288 | 0 | 0 | 326 | 72 | 0 | 202 | 387 | 0 | 1,502 | |
| Peak Hour | 0 | 0 | 0 | 0 | 0 | 121 | 0 | 135 | 0 | 0 | 162 | 40 | 0 | 105 | 227 | 0 | 790 | |

Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk

| Interval | | Hea | avy Vehicle | es | | Interval | | Bicycle | es on Road | dway | | Interval | Ped | destrians/E | Bicycles on | Crosswa | lk |
|-------------|----|-----|-------------|----|-------|-------------|----|---------|------------|------|-------|-------------|-----|-------------|-------------|---------|-------|
| Start Time | EB | NB | WB | SB | Total | Start Time | EB | NB | WB | SB | Total | Start Time | EB | NB | WB | SB | Total |
| 4:00 PM | 0 | 0 | 1 | 0 | 1 | 4:00 PM | 0 | 0 | 0 | 0 | 0 | 4:00 PM | 0 | 0 | 0 | 0 | 0 |
| 4:05 PM | 0 | 0 | 0 | 1 | 1 | 4:05 PM | 0 | 0 | 0 | 0 | 0 | 4:05 PM | 0 | 0 | 0 | 0 | 0 |
| 4:10 PM | 0 | 0 | 0 | 0 | 0 | 4:10 PM | 0 | 0 | 0 | 0 | 0 | 4:10 PM | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 1 | 0 | 0 | 1 | 4:15 PM | 0 | 0 | 0 | 0 | 0 | 4:15 PM | 0 | 0 | 0 | 0 | 0 |
| 4:20 PM | 0 | 0 | 1 | 0 | 1 | 4:20 PM | 0 | 0 | 0 | 0 | 0 | 4:20 PM | 0 | 0 | 0 | 0 | 0 |
| 4:25 PM | 0 | 0 | 0 | 0 | 0 | 4:25 PM | 0 | 0 | 0 | 0 | 0 | 4:25 PM | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 1 | 0 | 0 | 1 | 4:30 PM | 0 | 0 | 0 | 0 | 0 | 4:30 PM | 0 | 0 | 0 | 0 | 0 |
| 4:35 PM | 0 | 1 | 0 | 1 | 2 | 4:35 PM | 0 | 0 | 0 | 0 | 0 | 4:35 PM | 0 | 0 | 0 | 0 | 0 |
| 4:40 PM | 0 | 1 | 0 | 1 | 2 | 4:40 PM | 0 | 0 | 0 | 0 | 0 | 4:40 PM | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 1 | 1 | 1 | 3 | 4:45 PM | 0 | 0 | 0 | 0 | 0 | 4:45 PM | 0 | 0 | 0 | 0 | 0 |
| 4:50 PM | 0 | 1 | 0 | 0 | 1 | 4:50 PM | 0 | 0 | 0 | 0 | 0 | 4:50 PM | 0 | 0 | 0 | 0 | 0 |
| 4:55 PM | 0 | 0 | 0 | 0 | 0 | 4:55 PM | 0 | 0 | 0 | 0 | 0 | 4:55 PM | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 1 | 0 | 2 | 3 | 5:00 PM | 0 | 0 | 0 | 0 | 0 | 5:00 PM | 0 | 0 | 0 | 0 | 0 |
| 5:05 PM | 0 | 0 | 0 | 2 | 2 | 5:05 PM | 0 | 0 | 0 | 0 | 0 | 5:05 PM | 0 | 0 | 0 | 0 | 0 |
| 5:10 PM | 0 | 0 | 0 | 0 | 0 | 5:10 PM | 0 | 0 | 0 | 0 | 0 | 5:10 PM | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 5:15 PM | 0 | 0 | 0 | 0 | 0 | 5:15 PM | 0 | 0 | 0 | 0 | 0 |
| 5:20 PM | 0 | 0 | 0 | 0 | 0 | 5:20 PM | 0 | 0 | 0 | 0 | 0 | 5:20 PM | 0 | 0 | 0 | 0 | 0 |
| 5:25 PM | 0 | 0 | 0 | 0 | 0 | 5:25 PM | 0 | 0 | 0 | 0 | 0 | 5:25 PM | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 1 | 1 | 0 | 2 | 5:30 PM | 0 | 0 | 0 | 0 | 0 | 5:30 PM | 0 | 0 | 0 | 0 | 0 |
| 5:35 PM | 0 | 0 | 0 | 0 | 0 | 5:35 PM | 0 | 0 | 0 | 0 | 0 | 5:35 PM | 0 | 0 | 0 | 0 | 0 |
| 5:40 PM | 0 | 0 | 0 | 0 | 0 | 5:40 PM | 0 | 0 | 0 | 0 | 0 | 5:40 PM | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 1 | 0 | 0 | 1 | 5:45 PM | 0 | 0 | 0 | 0 | 0 | 5:45 PM | 0 | 0 | 0 | 0 | 0 |
| 5:50 PM | 0 | 0 | 0 | 0 | 0 | 5:50 PM | 0 | 0 | 0 | 0 | 0 | 5:50 PM | 0 | 0 | 0 | 0 | 0 |
| 5:55 PM | 0 | 1 | 0 | 0 | 1 | 5:55 PM | 0 | 0 | 0 | 0 | 0 | 5:55 PM | 0 | 0 | 0 | 0 | 0 |
| Count Total | 0 | 10 | 4 | 8 | 22 | Count Total | 0 | 0 | 0 | 0 | 0 | Count Total | 0 | 0 | 0 | 0 | 0 |
| Peak Hour | 0 | 6 | 3 | 4 | 13 | Peak Hour | 0 | 0 | 0 | 0 | 0 | Peak Hour | 0 | 0 | 0 | 0 | 0 |

Appendix BTrip Generation Calculations



DATA STATISTICS

Land Use:

Hotel (310) Click for Description and Data Plots

Independent Variable:

Rooms

Time Period:

Weekday

Setting/Location:

General Urban/Suburban

Trip Type:

Vehicle

Number of Studies:

7

Avg. Num. of Rooms:

148

Average Rate:

7.99

Range of Rates:

5.31 - 9.53

Standard Deviation:

1.92

Fitted Curve Equation:

T = 10.84(X) - 423.51

R²:

300

250

Average Rate

0.85

Directional Distribution:

50% entering, 50% exiting

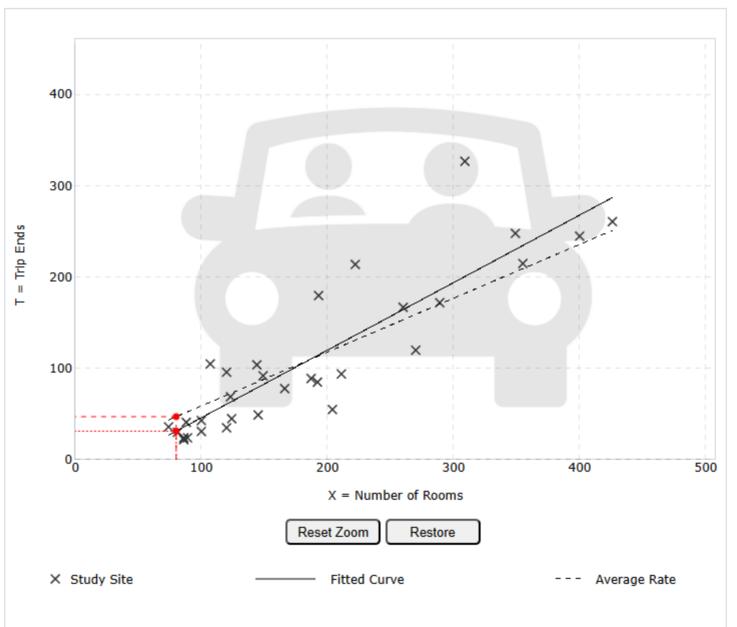
Calculated Trip Ends:

Average Rate: 639 (Total), 320 (Entry), 319 (Exit)

Fitted Curve: 444 (Total), 222 (Entry), 222 (Exit)

Query Filter DATA SOURCE: Trip Generation Manual, 11th Ed **SEARCH BY LAND USE CODE:** 310 LAND USE GROUP: (300-399) Lodging LAND USE: 310 - Hotel LAND USE SUBCATEGORY: All Sites SETTING/LOCATION: General Urban/Suburban INDEPENDENT VARIABLE (IV): Rooms TIME PERIOD: Weekday, Peak Hour of Adjacent Stre > TRIP TYPE: Vehicle **ENTER IV VALUE TO CALCULATE TRIPS:** Calculate

Data Plot and Equation



DATA STATISTICS

Land Use:

Hotel (310) Click for Description and Data Plots

Independent Variable:

Rooms

Time Period:

Weekday

Peak Hour of Adjacent Street Traffic

One Hour Between 4 and 6 p.m.

Setting/Location:

General Urban/Suburban

Trip Type:

Vehicle

Number of Studies:

31

Avg. Num. of Rooms:

186

Average Rate:

0.59

Range of Rates:

0.26 - 1.06

Standard Deviation:

0.22

Fitted Curve Equation:

T = 0.74(X) - 27.89

R²:

0.78

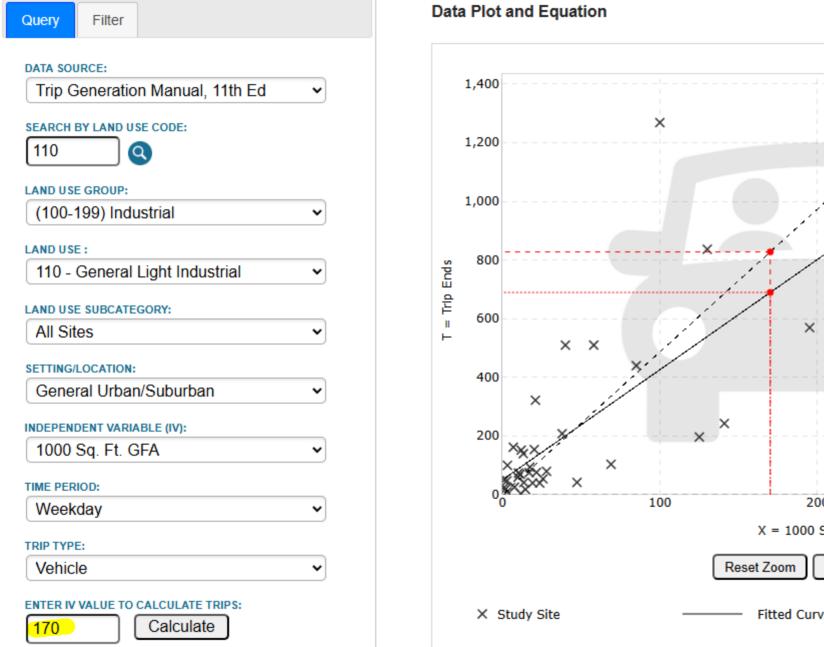
Directional Distribution:

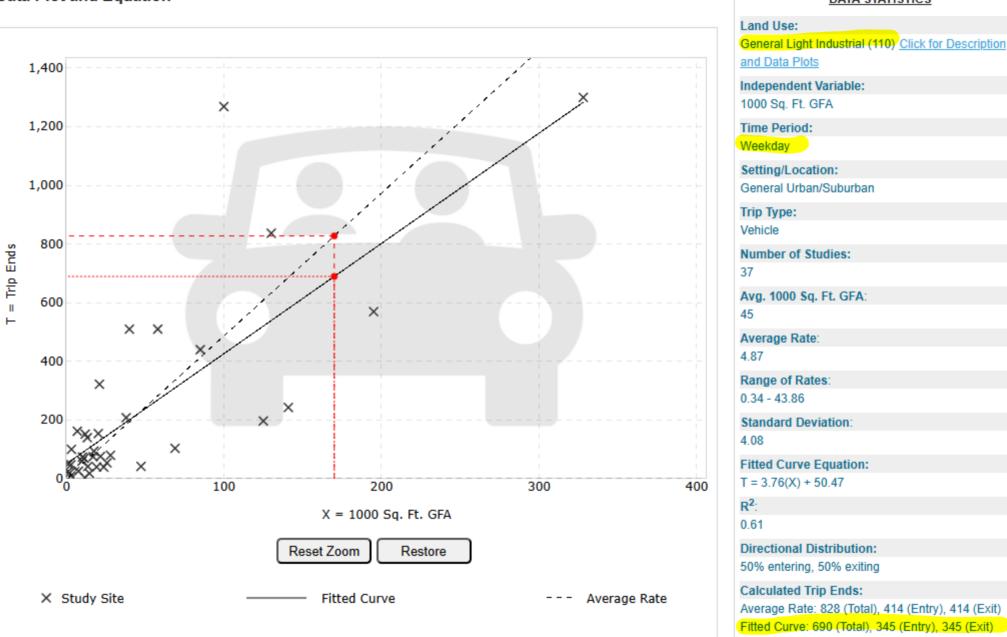
51% entering, 49% exiting

Calculated Trip Ends:

Average Rate: 47 (Total), 24 (Entry), 23 (Exit)

Fitted Curve: 31 (Total), 16 (Entry), 15 (Exit)

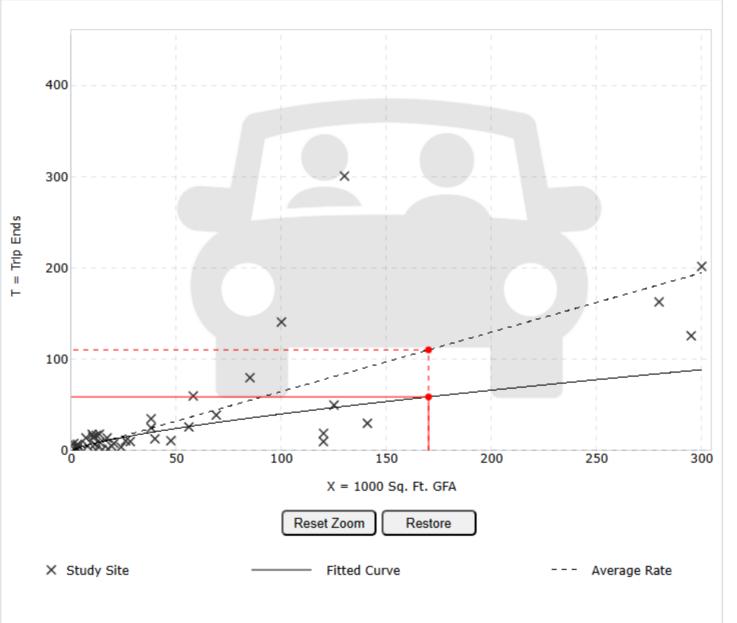




DATA STATISTICS

Query Filter DATA SOURCE: Trip Generation Manual, 11th Ed **SEARCH BY LAND USE CODE:** 110 Q LAND USE GROUP: (100-199) Industrial LAND USE: 110 - General Light Industrial LAND USE SUBCATEGORY: All Sites SETTING/LOCATION: General Urban/Suburban INDEPENDENT VARIABLE (IV): 1000 Sq. Ft. GFA TIME PERIOD: Weekday, Peak Hour of Adjacent Stre > TRIP TYPE: Vehicle **ENTER IV VALUE TO CALCULATE TRIPS:** Calculate 170

Data Plot and Equation



DATA STATISTICS

Land Use:

General Light Industrial (110) Click for Description

and Data Plots

Independent Variable:

1000 Sq. Ft. GFA

Time Period:

Weekday

Peak Hour of Adjacent Street Traffic

One Hour Between 4 and 6 p.m.

Setting/Location:

General Urban/Suburban

Trip Type:

Vehicle

Number of Studies:

40

Avg. 1000 Sq. Ft. GFA:

58

Average Rate:

0.65

Range of Rates:

0.07 - 7.02

Standard Deviation:

0.56

Fitted Curve Equation:

Ln(T) = 0.72 Ln(X) + 0.38

R²:

0.55

Directional Distribution:

14% entering, 86% exiting

Calculated Trip Ends:

Average Rate: 111 (Total), 15 (Entry), 96 (Exit)

Fitted Curve: 59 (Total), 8 (Entry), 51 (Exit)

Appendix CLevel of Service Calculations

| 2.2 | | | | | |
|---------|--|---|---|--|--|
| | | | | | |
| EBT | EBR | WBL | WBT | NBL | NBR |
| 7 | | ሻ | ^ | * | 7 |
| | | 70 | | | 30 |
| | | | | | 30 |
| | | | | | 0 |
| Free | | Free | | Stop | Stop |
| - | | - | | - | None |
| - | - | 220 | - | | 0 |
| | - | - | | | - |
| | - | - | | | - |
| | | | | | 94 |
| | | | | | 3 |
| 172 | 39 | 74 | 310 | 41 | 32 |
| | | | | | |
| aior1 | - | Maior2 | ı | Minor1 | |
| | | | | | 192 |
| | U | 211 | | | 132 |
| | _ | _ | | | _ |
| - | _ | | | | 6.23 |
| - | - | | | | |
| - | - | - | | | - |
| - | - | 2 240 | | | 2 227 |
| - | - | | | | 3.327 |
| - | - | 1360 | | | 847 |
| - | - | - | | | - |
| - | - | - | - | 63/ | - |
| - | - | 1000 | - | | 0.1- |
| - | - | 1360 | - | | 847 |
| - | - | - | - | | - |
| - | - | - | - | | - |
| - | - | - | - | 603 | - |
| | | | | | |
| | | | | | |
| FB | | WR | | NR | |
| EB 0 | | WB | | NB | |
| EB 0 | | WB 1.5 | | 12.4 | |
| | | | | | |
| 0 | | 1.5 | | 12.4 B | |
| 0 | NBLn1 i | 1.5 | EBT | 12.4 | WBL |
| 0 | NBLn1 I 411 | 1.5 | EBT - | 12.4 B | WBL 1360 |
| 0 | 411 0.101 | 1.5 NBLn2 847 | | (12.4) B EBR | 1360 0.055 |
| 0 | 411 | 1.5 NBLn2 847 | - | (12.4) B EBR | 1360 |
| 0 | 411 0.101 | 1.5 NBLn2 847 0.038 | - | 12.4 B EBR | 1360 0.055 |
| | 162 162 0 Free - - # 0 0 94 2 172 ajor1 0 - - - - - | 162 37 162 37 162 37 0 0 Free Free - None | 162 37 70 162 37 70 162 37 70 0 0 0 0 Free Free Free - None 220 # 0 94 94 94 2 3 2 172 39 74 ajor1 Major2 0 0 211 4.12 2.218 - 1360 1360 1360 1360 | 162 37 70 291 162 37 70 291 0 0 0 0 0 Free Free Free Free - None - None 220 - # 0 0 94 94 94 94 2 3 2 3 172 39 74 310 ajor1 Major2 0 0 211 0 4.12 2.218 1360 1360 1360 1360 1360 | 162 37 70 291 39 162 37 70 291 39 0 0 0 0 0 Free Free Free Free Stop - None - None - - 220 - 0 # 0 - - 0 0 94 94 94 94 94 2 3 2 3 2 172 39 74 310 41 ajor1 Major2 Minor1 Major2 Minor1 0 650 - - - 192 - - - 192 - - - - 192 - - - - - 192 - |

| Intersection | | | | | | | | | | | | |
|---------------------------------------|--------|--------------|--------|--------|------|--------|-----------|---------|--------|--------|-------|--------|
| Int Delay, s/veh | 1.6 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | * | 1 | | * | 1> | | | 4 | | | 4 | |
| Traffic Vol, veh/h | 2 | 180 | 20 | 15 | 334 | 22 | 24 | 2 | 14 | 15 | 4 | 4 |
| Future Vol, veh/h | 2 | 180 | 20 | 15 | 334 | 22 | 24 | 2 | 14 | 15 | 4 | 4 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | _ | None | - | - | None | - | _ | None | - | - | None |
| Storage Length | 150 | - | - | 250 | - | - | - | - | - | - | - | - |
| Veh in Median Storage | ,# - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | _ | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 7 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 2 | 196 | 22 | 16 | 363 | 24 | 26 | 2 | 15 | 16 | 4 | 4 |
| | | | | | | | | | | | | |
| Major/Minor I | Major1 | | ı | Major2 | | | Minor1 | | | Minor2 | | |
| Conflicting Flow All | 387 | 0 | 0 | 218 | 0 | 0 | 622 | 630 | 207 | 627 | 629 | 375 |
| Stage 1 | - | - | - | 210 | - | - | 211 | 211 | 201 | 407 | 407 | 3/3 |
| Stage 2 | _ | _ | _ | _ | _ | _ | 411 | 419 | _ | 220 | 222 | _ |
| Critical Hdwy | 4.12 | _ | _ | 4.17 | _ | _ | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - 1.12 | _ | _ | | _ | _ | 6.12 | 5.52 | 0.22 | 6.12 | 5.52 | - 0.22 |
| Critical Hdwy Stg 2 | _ | _ | _ | _ | _ | _ | 6.12 | 5.52 | _ | 6.12 | 5.52 | _ |
| Follow-up Hdwy | 2.218 | _ | _ | 2.263 | _ | _ | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1171 | _ | _ | 1322 | _ | _ | 399 | 399 | 833 | 396 | 399 | 671 |
| Stage 1 | - | _ | _ | - | _ | _ | 791 | 728 | - | 621 | 597 | - |
| Stage 2 | - | _ | _ | _ | _ | _ | 618 | 590 | - | 782 | 720 | - |
| Platoon blocked, % | | _ | _ | | _ | _ | 3.0 | 300 | | . 02 | | |
| Mov Cap-1 Maneuver | 1171 | - | - | 1322 | - | - | 389 | 393 | 833 | 383 | 393 | 671 |
| Mov Cap-2 Maneuver | - | _ | _ | - | _ | - | 389 | 393 | - | 383 | 393 | - |
| Stage 1 | - | _ | - | - | - | - | 789 | 727 | - | 620 | 590 | - |
| Stage 2 | _ | _ | _ | _ | _ | _ | 602 | 583 | - | 764 | 719 | _ |
| - 15-13- 2 - | | | | | | | | 300 | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| | 0.1 | | | 0.3 | | | 13.3 | | | 14.2 | | |
| HCM Control Delay, s HCM LOS | 0.1 | | | 0.5 | | | 13.3 B | | | 14.Z | | |
| I IOIVI LOO | | | | | | | Ď | | | D | | |
| Minor Lane/Major Mvm | nt. | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | QRI n1 | | | |
| | it . | | | | | 1322 | - | VVDIC - | 416 | | | |
| Capacity (veh/h) HCM Lane V/C Ratio | | 479 0.091 | | | | | | | | | | |
| | | | | - | _ | 0.012 | - | - | 0.06 | | | |
| HCM Lang LOS | | 13.3 | 8.1 | - | - | 7.8 | - | - | 14.2 | | | |
| HCM Lane LOS HCM 95th %tile Q(veh) | | 0.3 | A 0 | - | - | A 0 | - | - | 0.2 | | | |
| now your wille Q(ven) | | 0.3 | U | - | - | U | - | - | 0.2 | | | |

| Interception | | | | | | |
|---|--------|---------------|----------------|-------------|----------------|---------------|
| Intersection Int Delay, s/veh | 0 | | | | | |
| • | | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | N. | | 1 | | | 4 |
| Traffic Vol, veh/h | 0 | 0 | 14 | 0 | 0 | 18 |
| Future Vol, veh/h | 0 | 0 | 14 | 0 | 0 | 18 |
| Conflicting Peds, #/hr | 1 | 1 | 0 | 1 | 1 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage | e, # 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 73 | 73 | 73 | 73 | 73 | 73 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 0 | 19 | 0 | 0 | 25 |
| WWW.CT IOW | • | • | 10 | • | | 20 |
| | | | | | | |
| | Minor1 | | Major1 | N | Major2 | |
| Conflicting Flow All | 46 | 21 | 0 | 0 | 20 | 0 |
| Stage 1 | 20 | - | - | - | - | - |
| Stage 2 | 26 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 964 | 1056 | - | - | 1596 | - |
| Stage 1 | 1003 | - | - | - | - | - |
| Stage 2 | 997 | _ | _ | - | - | _ |
| Platoon blocked, % | 301 | | _ | _ | | _ |
| Mov Cap-1 Maneuver | 962 | 1054 | _ | _ | 1594 | |
| Mov Cap-1 Maneuver | 962 | 1034 | _ | _ | 1007 | |
| · | 1002 | - | - | - | <u>-</u> | - |
| Stage 1 | 996 | | - | - | - | - |
| Stage 2 | 990 | - | - | - | - | - |
| | | | | | | |
| Approach | WB | | NB | | SB | |
| HCM Control Delay, s | 0 | | 0 | | 0 | |
| HCM LOS | A | | | | | |
| | | | | | | |
| | | | | | | |
| Min 1 /5.4 · 5.4 | -1 | NDT | NIDE | MDL 4 | ODL | |
| Minor Lane/Major Mvn | nt | NBT | NBRV | VBLn1 | SBL | SBT |
| Capacity (veh/h) | nt | NBT - | NBRV - | VBLn1 - | SBL 1594 | SBT - |
| Capacity (veh/h) HCM Lane V/C Ratio | | NBT - - | NBRV - - | - | 1594 - | SBT - - |
| Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s) | | - | - | - - 0 | 1594 - 0 | - |
| Capacity (veh/h) HCM Lane V/C Ratio |) | - | - | - | 1594 - | - |

| Intersection | | | | | | |
|------------------------|--------|-------------|---------|------|--------|--------|
| Int Delay, s/veh | 0 | | | | | |
| | | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | | 4 | 1 | | M | |
| Traffic Vol, veh/h | 0 | 12 | 13 | 0 | 0 | 0 |
| Future Vol, veh/h | 0 | 12 | 13 | 0 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | _ | - | _ | - | 0 | - |
| Veh in Median Storage | e.# - | 0 | 0 | _ | 0 | _ |
| Grade, % | - - | 0 | 0 | _ | 0 | _ |
| Peak Hour Factor | 57 | 57 | 57 | 57 | 57 | 57 |
| Heavy Vehicles, % | 2 | 8 | 8 | 2 | 2 | 2 |
| Mymt Flow | 0 | 21 | 23 | 0 | 0 | 0 |
| IVIVIIIL FIOW | U | 21 | 23 | U | U | U |
| | | | | | | |
| Major/Minor | Major1 | N | //ajor2 | | Minor2 | |
| Conflicting Flow All | 23 | 0 | | 0 | 44 | 23 |
| Stage 1 | | - | _ | _ | 23 | - |
| Stage 2 | _ | _ | _ | _ | 21 | _ |
| Critical Hdwy | 4.12 | _ | _ | _ | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | 7.12 | _ | _ | _ | 5.42 | 0.22 |
| , , | - | - | | | 5.42 | - |
| Critical Hdwy Stg 2 | | - | | - | | 2 240 |
| Follow-up Hdwy | 2.218 | - | - | - | 3.518 | |
| Pot Cap-1 Maneuver | 1592 | - | - | - | 967 | 1054 |
| Stage 1 | - | - | - | - | 1000 | - |
| Stage 2 | - | - | - | - | 1002 | - |
| Platoon blocked, % | | - | - | - | | |
| Mov Cap-1 Maneuver | 1592 | - | - | - | 967 | 1054 |
| Mov Cap-2 Maneuver | - | - | - | - | 967 | - |
| Stage 1 | - | - | - | - | 1000 | - |
| Stage 2 | - | - | - | - | 1002 | - |
| Ŭ | | | | | | |
| ۸ مه مرم م مام | ED | | WD | | CD | |
| Approach | EB | | WB | | SB | |
| HCM Control Delay, s | 0 | | 0 | | 0 | |
| HCM LOS | | | | | A | |
| | | | | | | |
| Minor Lane/Major Mvr | nt | EBL | EBT | WBT | WBR : | SRI n1 |
| Capacity (veh/h) | iii. | 1592 | LDI | WDI | VVDIC | OBLITT |
| HCM Lane V/C Ratio | | | - | - | - | - |
| | | - | - | - | - | - |
| | | ^ | | | | |
| HCM Control Delay (s |) | 0 | - | - | - | 0 |
| | | 0 A 0 | - - | - | - | A - |

| Intersection | | | | | | | | | | | | |
|------------------------|--------|----------|-------|--------|----------|------|--------|-------|-------|--------|-------|-------|
| Int Delay, s/veh | 0.7 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | * | ^ | | * | ^ | | | 4 | | | 4 | |
| Traffic Vol, veh/h | 9 | 168 | 1 | 3 | 289 | 2 | 2 | 0 | 5 | 8 | 0 | 6 |
| Future Vol, veh/h | 9 | 168 | 1 | 3 | 289 | 2 | 2 | 0 | 5 | 8 | 0 | 6 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | 90 | - | - | 90 | - | - | - | - | - | - | - | - |
| Veh in Median Storage | e, # - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 |
| Heavy Vehicles, % | 11 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 17 |
| Mvmt Flow | 10 | 181 | 1 | 3 | 311 | 2 | 2 | 0 | 5 | 9 | 0 | 6 |
| | | | | | | | | | | | | |
| Major/Minor I | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
| Conflicting Flow All | 313 | 0 | 0 | 182 | 0 | 0 | 523 | 521 | 182 | 522 | 520 | 312 |
| Stage 1 | - | - | - | - | - | - | 202 | 202 | - | 318 | 318 | - |
| Stage 2 | - | - | - | - | - | - | 321 | 319 | - | 204 | 202 | - |
| Critical Hdwy | 4.21 | - | - | 4.12 | - | _ | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.37 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.299 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.453 |
| Pot Cap-1 Maneuver | 1198 | - | - | 1393 | - | - | 465 | 460 | 861 | 465 | 461 | 695 |
| Stage 1 | - | - | - | - | - | - | 800 | 734 | - | 693 | 654 | - |
| Stage 2 | - | - | - | - | - | - | 691 | 653 | - | 798 | 734 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1198 | - | - | 1393 | - | - | 457 | 455 | 861 | 458 | 456 | 695 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 457 | 455 | - | 458 | 456 | - |
| Stage 1 | - | - | - | - | - | - | 794 | 728 | - | 687 | 653 | - |
| Stage 2 | - | - | - | - | - | - | 683 | 652 | - | 786 | 728 | - |
| | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Control Delay, s | 0.4 | | | 0.1 | | | 10.3 | | | 11.9 | | |
| HCM LOS | | | | - | | | В | | | В | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvm | nt 1 | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | |
| Capacity (veh/h) | | 687 | 1198 | _ | _ | 1393 | _ | _ | 536 | | | |
| HCM Lane V/C Ratio | | 0.011 | 0.008 | _ | _ | | _ | _ | 0.028 | | | |
| HCM Control Delay (s) | | 10.3 | 8 | - | - | 7.6 | _ | - | 11.9 | | | |
| HCM Lane LOS | | В | A | _ | - | Α | - | _ | В | | | |
| HCM 95th %tile Q(veh) | | 0 | 0 | _ | _ | 0 | _ | _ | 0.1 | | | |
| | | - 3 | | | | | | | 0.1 | | | |

| Internation | | | | | | |
|-------------------------|----------|------|---------|-------|--------|----------|
| Intersection | 7.0 | | | | | |
| Int Delay, s/veh | 7.2 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Y | | f) | | * | ↑ |
| Traffic Vol, veh/h | 121 | 135 | 162 | 40 | 105 | 227 |
| Future Vol, veh/h | 121 | 135 | 162 | 40 | 105 | 227 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | _ | - | 190 | - |
| Veh in Median Storage | | - | 0 | - | _ | 0 |
| Grade, % | 0 | _ | 0 | _ | _ | 0 |
| Peak Hour Factor | 91 | 91 | 91 | 91 | 91 | 91 |
| Heavy Vehicles, % | 2 | 2 | 4 | 2 | 2 | 2 |
| Mymt Flow | 133 | 148 | 178 | 44 | 115 | 249 |
| IVIVIII(I IOW | 100 | 140 | 170 | 77 | 110 | 243 |
| | | | | | | |
| Major/Minor | Minor1 | N | /lajor1 | | Major2 | |
| Conflicting Flow All | 679 | 200 | 0 | 0 | 222 | 0 |
| Stage 1 | 200 | - | - | - | - | - |
| Stage 2 | 479 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | _ | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | _ | - | _ | _ | _ |
| Critical Hdwy Stg 2 | 5.42 | _ | _ | _ | _ | _ |
| Follow-up Hdwy | 3.518 | | _ | _ | 2.218 | _ |
| Pot Cap-1 Maneuver | 417 | 841 | _ | _ | 1347 | _ |
| Stage 1 | 834 | - | _ | _ | - | _ |
| Stage 2 | 623 | | | | | |
| Platoon blocked, % | 023 | | _ | _ | | _ |
| | 382 | 841 | - | | 1347 | - |
| Mov Cap-1 Maneuver | | | - | - | 1341 | |
| Mov Cap-2 Maneuver | 382 | - | - | - | - | - |
| Stage 1 | 834 | - | - | - | - | - |
| Stage 2 | 570 | - | - | - | - | - |
| | | | | | | |
| Approach | WB | | NB | | SB | |
| HCM Control Delay, s | 18.9 | | 0 | | 2.5 | |
| HCM LOS | C | | | | 2.0 | |
| TIOWI LOO | <u>U</u> | | | | | |
| | | | | | | |
| Minor Lane/Major Mvn | nt | NBT | NBRV | VBLn1 | SBL | SBT |
| Capacity (veh/h) | | - | - | 536 | 1347 | - |
| HCM Lane V/C Ratio | | _ | - | 0.525 | | - |
| HCM Control Delay (s) |) | - | - | 18.9 | 7.9 | - |
| HCM Lane LOS | | - | _ | С | Α | - |
| HCM 95th %tile Q(veh |) | _ | _ | 3 | 0.3 | _ |
| Sivi odar 70tilo Q(Vori | 7 | | | J | 3.0 | |

| Intersection | | | | | | | |
|---------------------------------------|-------|--------|---------|----------|---------|-------|---|
| Int Delay, s/veh | 2.3 | | | | | | |
| | | | | | | | |
| | EBT | EBR | WBL | WBT | NBL | NBR | |
| Lane Configurations | ₽ | | ሻ | ^ | ሻ | 7 | |
| Traffic Vol, veh/h | 178 | 41 | 77 | 320 | 43 | 33 | |
| Future Vol, veh/h | 178 | 41 | 77 | 320 | 43 | 33 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Free | Free | Free | Free | Stop | Stop | |
| RT Channelized | - | None | - | None | - | None | |
| Storage Length | - | - | 220 | - | 0 | 0 | |
| Veh in Median Storage, | # 0 | - | - | 0 | 0 | - | |
| Grade, % | 0 | - | - | 0 | 0 | - | |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | |
| Heavy Vehicles, % | 2 | 3 | 2 | 3 | 2 | 3 | |
| Mvmt Flow | 189 | 44 | 82 | 340 | 46 | 35 | |
| | | | | | | | |
| Majay/Minay M | -:1 | , | Maia#0 | | Air-au1 | | ľ |
| | ajor1 | | Major2 | | Minor1 | 044 | |
| Conflicting Flow All | 0 | 0 | 233 | 0 | 715 | 211 | |
| Stage 1 | - | - | - | - | 211 | - | |
| Stage 2 | - | - | - | - | 504 | - | |
| Critical Hdwy | - | - | 4.12 | - | 6.42 | 6.23 | |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - | |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - | |
| Follow-up Hdwy | - | - | 2.218 | - | 3.518 | | |
| Pot Cap-1 Maneuver | - | - | 1335 | - | 397 | 827 | |
| Stage 1 | - | - | - | - | 824 | - | |
| Stage 2 | - | - | - | - | 607 | - | |
| Platoon blocked, % | - | - | | - | | | |
| Mov Cap-1 Maneuver | - | - | 1335 | - | 373 | 827 | |
| Mov Cap-2 Maneuver | - | - | - | - | 373 | - | |
| Stage 1 | _ | _ | _ | _ | 824 | _ | |
| Stage 2 | _ | _ | _ | _ | 570 | _ | |
| 3.033 L | | | | | 5, 5 | | |
| | | | | | | | |
| Approach | EB | | WB | | NB | | |
| HCM Control Delay, s | 0 | | 1.5 | | 13.2 | | |
| HCM LOS | | | | | В | | |
| | | | | | | | |
| Minor Lane/Major Mvmt | N | NBLn11 | VIRI n2 | EBT | EBR | WBL | |
| | ľ | | | | | | |
| Capacity (veh/h) | | 373 | 827 | - | - | 1335 | |
| HCM Caretral Palace (a) | | 0.123 | | - | | 0.061 | |
| HCM Control Delay (s) | | 16 | 9.5 | - | - | 7.9 | |
| HCM Lane LOS HCM 95th %tile Q(veh) | | 0.4 | 0.1 | - | - | A | |
| | | | Λ 1 | - | _ | 0.2 | |

| Intersection | | | | | | | | | | | | |
|------------------------|--------|----------|------|-----------|------|-------|--------|-------|-------|--------|-------|-------|
| Int Delay, s/veh | 1.6 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | T) | 1 | LDIN | YVDE T | 1₃ | VVDIX | NDL | 4 | NUN | ODL | 4 | ODIN |
| Traffic Vol, veh/h | 2 | 198 | 22 | 17 | 367 | 24 | 26 | 2 | 15 | 17 | 4 | 4 |
| Future Vol, veh/h | 2 | 198 | 22 | 17 | 367 | 24 | 26 | 2 | 15 | 17 | 4 | 4 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | 150 | - | - | 250 | - | - | - | - | - | - | - | - |
| Veh in Median Storage | ,# - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | _ | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 7 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 2 | 215 | 24 | 18 | 399 | 26 | 28 | 2 | 16 | 18 | 4 | 4 |
| | | | | | | | | | | | | |
| Major/Minor N | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
| Conflicting Flow All | 425 | 0 | 0 | 239 | 0 | 0 | 683 | 692 | 227 | 688 | 691 | 412 |
| Stage 1 | - | _ | _ | | - | _ | 231 | 231 | - | 448 | 448 | |
| Stage 2 | - | - | - | - | - | - | 452 | 461 | - | 240 | 243 | - |
| Critical Hdwy | 4.12 | - | - | 4.17 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.263 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1134 | - | - | 1299 | - | - | 363 | 367 | 812 | 360 | 368 | 640 |
| Stage 1 | - | - | - | - | - | - | 772 | 713 | - | 590 | 573 | - |
| Stage 2 | - | - | - | - | - | - | 587 | 565 | - | 763 | 705 | - |
| Platoon blocked, % | | - | - | | - | - | | | | | | |
| Mov Cap-1 Maneuver | 1134 | - | - | 1299 | - | - | 353 | 361 | 812 | 347 | 362 | 640 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 353 | 361 | - | 347 | 362 | - |
| Stage 1 | - | - | - | - | - | - | 770 | 712 | - | 589 | 565 | - |
| Stage 2 | - | - | - | - | - | - | 571 | 557 | - | 744 | 704 | - |
| | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Control Delay, s | 0.1 | | | 0.3 | | | 14.2 | | | 15.3 | | |
| HCM LOS | | | | | | | В | | | C | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvm | t | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | |
| Capacity (veh/h) | | 440 | | - | | 1299 | - | - | | | | |
| HCM Lane V/C Ratio | | 0.106 | | _ | | 0.014 | _ | | 0.072 | | | |
| HCM Control Delay (s) | | 14.2 | 8.2 | - | - | 7.8 | - | - | 15.3 | | | |
| HCM Lane LOS | | В | A | _ | _ | A | - | - | С | | | |
| HCM 95th %tile Q(veh) | | 0.4 | 0 | - | - | 0 | - | - | 0.2 | | | |
| | | | | | | | | | | | | |

| Intersection | | | | | | |
|------------------------|--------|-------|---------|-------|--------|------|
| | 0 | | | | | |
| Int Delay, s/veh | | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | M | | 1 | | | 4 |
| Traffic Vol, veh/h | 0 | 0 | 15 | 0 | 0 | 20 |
| Future Vol, veh/h | 0 | 0 | 15 | 0 | 0 | 20 |
| Conflicting Peds, #/hr | 1 | 1 | 0 | 1 | 1 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | _ | None | - | None | _ | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage | | _ | 0 | _ | _ | 0 |
| Grade, % | 0 | _ | 0 | _ | _ | 0 |
| Peak Hour Factor | 73 | 73 | 73 | 73 | 73 | 73 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 0 | 21 | 0 | 0 | 27 |
| IVIVITIL FIOW | U | U | 21 | U | U | 21 |
| | | | | | | |
| Major/Minor | Minor1 | N | /lajor1 | N | Major2 | |
| Conflicting Flow All | 50 | 23 | 0 | 0 | 22 | 0 |
| Stage 1 | 22 | | - | _ | _ | - |
| Stage 2 | 28 | _ | _ | _ | _ | _ |
| Critical Hdwy | 6.42 | 6.22 | _ | _ | 4.12 | _ |
| Critical Hdwy Stg 1 | 5.42 | - | _ | _ | 7.12 | _ |
| Critical Hdwy Stg 2 | 5.42 | | | | | |
| Follow-up Hdwy | 3.518 | 2 210 | _ | _ | 2.218 | _ |
| | 959 | 1054 | - | _ | 1593 | - |
| Pot Cap-1 Maneuver | | 1004 | | - | 1595 | - |
| Stage 1 | 1001 | - | - | - | - | - |
| Stage 2 | 995 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 957 | 1052 | - | - | 1591 | - |
| Mov Cap-2 Maneuver | 957 | - | - | - | - | - |
| Stage 1 | 1000 | - | - | - | - | - |
| Stage 2 | 994 | - | - | - | - | - |
| | | | | | | |
| Annroach | WB | | NB | | SB | |
| Approach | | | | | | |
| HCM Control Delay, s | 0 | | 0 | | 0 | |
| HCM LOS | A | | | | | |
| | | | | | | |
| Minor Lane/Major Mvn | nt | NBT | NBR\ | VBLn1 | SBL | SBT |
| Capacity (veh/h) | | 1101 | | - | 1591 | |
| HCM Lane V/C Ratio | | _ | | | | - |
| | | - | - | _ | - | |
| HCM Control Delay (s) | | - | - | 0 | 0 | - |
| HCM Lane LOS | , | - | - | Α | A | - |
| HCM 95th %tile Q(veh |) | - | - | - | 0 | - |

| Intersection | | | | | | |
|--------------------------------------|--------|--------|--------|-------|--------|--------|
| Int Delay, s/veh | 0 | | | | | |
| | | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | | 4 | 1> | | . A | |
| Traffic Vol, veh/h | 0 | 13 | 14 | 0 | 0 | 0 |
| Future Vol, veh/h | 0 | 13 | 14 | 0 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage | e, # - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 57 | 57 | 57 | 57 | 57 | 57 |
| Heavy Vehicles, % | 2 | 8 | 8 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 23 | 25 | 0 | 0 | 0 |
| | | | | | | |
| N. 4 | | | | _ | | |
| | Major1 | | Major2 | | Minor2 | |
| Conflicting Flow All | 25 | 0 | - | 0 | 48 | 25 |
| Stage 1 | - | - | - | - | 25 | - |
| Stage 2 | - | - | - | - | 23 | - |
| Critical Hdwy | 4.12 | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1589 | - | - | - | 962 | 1051 |
| Stage 1 | - | - | - | - | 998 | - |
| Stage 2 | - | - | - | - | 1000 | - |
| Platoon blocked, % | | _ | - | - | | |
| Mov Cap-1 Maneuver | 1589 | _ | _ | _ | 962 | 1051 |
| Mov Cap-2 Maneuver | - | _ | _ | _ | 962 | - |
| Stage 1 | _ | _ | _ | _ | 998 | _ |
| Stage 2 | _ | _ | _ | _ | 1000 | _ |
| Olugo Z | | | | | 1000 | |
| | | | | | | |
| Approach | EB | | WB | | SB | |
| HCM Control Delay, s | 0 | | 0 | | 0 | |
| HCM LOS | | | | | A | |
| | | | | | | |
| Minor Lang/Major Muss | \t | EBL | EDT | \\/DT | WPD | CDI n1 |
| Minor Lane/Major Mvm | IL | | EBT | WBT | WBR : | OBLIII |
| Capacity (veh/h) | | 1589 | - | - | - | - |
| HCM Lane V/C Ratio | | - | - | - | - | - |
| HCM Control Delay (s) | | 0 | - | - | - | 0 |
| | | | | | | - |
| HCM Lane LOS HCM 95th %tile Q(veh | | A 0 | - | - | - | Α |

| Intersection | | | | | | | | | | | | |
|------------------------|--------|---------|------|--------|------|-------|--------|-------|-------|--------|-------|-------|
| Int Delay, s/veh | 0.7 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | T T | <u></u> | LDIN | VVDL | VVD1 | WDIX | NDL | 4 | NDI | ODL | 4 | ODIN |
| Traffic Vol, veh/h | 10 | 185 | 1 | 3 | 318 | 2 | 2 | 0 | 6 | 9 | 0 | 7 |
| Future Vol, veh/h | 10 | 185 | 1 | 3 | 318 | 2 | 2 | 0 | 6 | 9 | 0 | 7 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | _ | - | None | _ | - | None | - | - | None | - | - | None |
| Storage Length | 90 | _ | - | 90 | - | - | - | - | - | - | - | - |
| Veh in Median Storage | ,# - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 |
| Heavy Vehicles, % | 11 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 17 |
| Mvmt Flow | 11 | 199 | 1 | 3 | 342 | 2 | 2 | 0 | 6 | 10 | 0 | 8 |
| | | | | | | | | | | | | |
| Major/Minor N | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
| Conflicting Flow All | 344 | 0 | 0 | 200 | 0 | 0 | 575 | 572 | 200 | 574 | 571 | 343 |
| Stage 1 | - | - | - | - | - | - | 222 | 222 | | 349 | 349 | - |
| Stage 2 | - | - | - | - | - | - | 353 | 350 | - | 225 | 222 | - |
| Critical Hdwy | 4.21 | - | - | 4.12 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.37 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.299 | - | - | 2.218 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.453 |
| Pot Cap-1 Maneuver | 1166 | - | - | 1372 | - | - | 429 | 430 | 841 | 430 | 431 | 667 |
| Stage 1 | - | - | - | - | - | - | 780 | 720 | - | 667 | 633 | - |
| Stage 2 | - | - | - | - | - | - | 664 | 633 | - | 778 | 720 | - |
| Platoon blocked, % | | - | - | | - | - | , | | _ | | | |
| Mov Cap-1 Maneuver | 1166 | - | - | 1372 | - | - | 420 | 425 | 841 | 423 | 426 | 667 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 420 | 425 | - | 423 | 426 | - |
| Stage 1 | - | - | - | - | - | - | 773 | 714 | - | 661 | 632 | - |
| Stage 2 | - | - | - | - | - | - | 655 | 632 | - | 765 | 714 | - |
| | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Control Delay, s | 0.4 | | | 0.1 | | | 10.4 | | | 12.4 | | |
| HCM LOS | | | | | | | В | | | В | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvm | t I | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | |
| Capacity (veh/h) | | | 1166 | - | | 1372 | - | - | 504 | | | |
| HCM Lane V/C Ratio | | 0.013 | | - | | 0.002 | - | - | 0.034 | | | |
| HCM Control Delay (s) | | 10.4 | 8.1 | - | - | 7.6 | - | - | 12.4 | | | |
| HCM Lane LOS | | В | Α | - | - | Α | - | - | В | | | |
| HCM 95th %tile Q(veh) | | 0 | 0 | - | - | 0 | - | - | 0.1 | | | |
| | | | | | | | | | | | | |

| Intersection | | | | | | |
|------------------------|------------|--------|---------|---------|--------|------|
| Int Delay, s/veh | 8.5 | | | | | |
| | | 14/5-5 | | | | 05- |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | N/ | | 1> | | 7 | • |
| Traffic Vol, veh/h | 133 | 149 | 178 | 44 | 116 | 250 |
| Future Vol, veh/h | 133 | 149 | 178 | 44 | 116 | 250 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | 190 | - |
| Veh in Median Storage | e, # 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 4 | 2 | 2 | 2 |
| Mvmt Flow | 145 | 162 | 193 | 48 | 126 | 272 |
| | | | | | | |
| | | _ | | _ | | |
| | Minor1 | | //ajor1 | | Major2 | |
| Conflicting Flow All | 741 | 217 | 0 | 0 | 241 | 0 |
| Stage 1 | 217 | - | - | - | - | - |
| Stage 2 | 524 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 384 | 823 | - | - | 1326 | - |
| Stage 1 | 819 | - | - | - | - | - |
| Stage 2 | 594 | - | - | _ | - | - |
| Platoon blocked, % | | | - | _ | | - |
| Mov Cap-1 Maneuver | 348 | 823 | _ | - | 1326 | _ |
| Mov Cap-2 Maneuver | 348 | - | _ | _ | - | _ |
| Stage 1 | 819 | _ | _ | _ | _ | _ |
| Stage 2 | 538 | | | | | _ |
| Olaye Z | 550 | | | | | |
| | | | | | | |
| Approach | WB | | NB | | SB | |
| HCM Control Delay, s | 22.9 | | 0 | | 2.5 | |
| HCM LOS | C | | | | | |
| | | | | | | |
| Minor Long/Major Muse | . + | NDT | NDDV | N/DI ∽1 | CDI | CDT |
| Minor Lane/Major Mvm | IL | NBT | NBKV | VBLn1 | SBL | SBT |
| Capacity (veh/h) | | - | - | 501 | 1326 | - |
| HCM Lane V/C Ratio | | - | - | 0.612 | | - |
| HCM Control Delay (s) | | - | - | 22.9 | 8 | - |
| HCM Lane LOS | | - | - | С | Α | - |
| HCM 95th %tile Q(veh) |) | - | - | 4.1 | 0.3 | - |
| | | | | | | |

| Intersection | | | | | | |
|------------------------|-------|--------|--------|----------|--------|-------|
| Int Delay, s/veh | 3 | | | | | |
| | | ED.5 | 14/5 | 14/57 | NIS | NES |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | Þ | | * | ^ | 1 | 7 |
| Traffic Vol, veh/h | 178 | 53 | 77 | 320 | 76 | 33 |
| Future Vol, veh/h | 178 | 53 | 77 | 320 | 76 | 33 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| • | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | 220 | - | 0 | 0 |
| Veh in Median Storage, | # 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 2 | 3 | 2 | 3 | 2 | 3 |
| Mvmt Flow | 189 | 56 | 82 | 340 | 81 | 35 |
| | | | | | | |
| Major/Minor M | aiar1 | N | Major? | ı | Minor1 | |
| | ajor1 | | Major2 | | | 0.47 |
| Conflicting Flow All | 0 | 0 | 245 | 0 | 721 | 217 |
| Stage 1 | - | - | - | - | 217 | - |
| Stage 2 | - | - | - | - | 504 | - |
| Critical Hdwy | - | - | 4.12 | - | 6.42 | 6.23 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | - | - | 2.218 | - | 3.518 | |
| Pot Cap-1 Maneuver | - | - | 1321 | - | 394 | 820 |
| Stage 1 | - | - | - | - | 819 | - |
| Stage 2 | - | - | - | - | 607 | - |
| Platoon blocked, % | - | - | | - | | |
| Mov Cap-1 Maneuver | - | - | 1321 | - | 370 | 820 |
| Mov Cap-2 Maneuver | - | - | - | - | 370 | - |
| Stage 1 | _ | - | - | _ | 819 | - |
| Stage 2 | _ | _ | _ | _ | 569 | _ |
| | | | | | 500 | |
| | | | 14.5 | | | |
| Approach | EB | | WB | | NB | |
| HCM Control Delay, s | 0 | | 1.5 | | 15 | |
| HCM LOS | | | | | C | |
| | | | | | | |
| Minor Lane/Major Mvmt | ı | NBLn11 | VRI n2 | EBT | EBR | WBL |
| | | 370 | | | | 1321 |
| Capacity (veh/h) | | | 820 | - | | |
| HCM Central Delay (a) | | 0.219 | | - | | 0.062 |
| HCM Control Delay (s) | | 17.4 | 9.6 | - | - | 7.9 |
| HCM Lane LOS | | С | A | - | - | A |
| HCM 95th %tile Q(veh) | | 0.8 | 0.1 | - | - | 0.2 |

| Intersection | | | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|--------|----------|----------|-------------------|---------|-----------|--------|-------|-----------------------------|
| Int Delay, s/veh | 2.2 | | | | | | | | | | | |
| | EDI | EDT | EDD | WDI | WDT | WDD | NDI | NDT | NDD | CDI | CDT | CDD |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 7 | 100 | 00 | 7 | ♣ | 0.4 | 00 | 4 | 4.5 | 17 | 4 | |
| Traffic Vol, veh/h | 2 | 198 | 22 | 28 | 367 | 24 | 26 | 2 | 45 | 17 | 4 | 4 |
| Future Vol, veh/h | 2 | 198 | 22 | 28 | 367 | 24 | 26 | 2 | 45 | 17 | 4 | 4 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | 450 | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | 150 | - | - | 250 | - | - | - | - | - | - | - | - |
| Veh in Median Storage | | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 7 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 2 | 215 | 24 | 30 | 399 | 26 | 28 | 2 | 49 | 18 | 4 | 4 |
| | | | | | | | | | | | | |
| Major/Minor I | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
| Conflicting Flow All | 425 | 0 | 0 | 239 | 0 | 0 | 707 | 716 | 227 | 729 | 715 | 412 |
| Stage 1 | - | - | - | - | - | - | 231 | 231 | | 472 | 472 | - ' '- |
| Stage 2 | _ | _ | _ | _ | _ | _ | 476 | 485 | _ | 257 | 243 | _ |
| Critical Hdwy | 4.12 | _ | - | 4.17 | _ | _ | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | _ | _ | - | _ | _ | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | _ | _ | - | _ | _ | _ | 6.12 | 5.52 | _ | 6.12 | 5.52 | _ |
| Follow-up Hdwy | 2.218 | _ | _ | 2.263 | _ | _ | 3.518 | | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1134 | _ | _ | 1299 | _ | _ | 350 | 356 | 812 | 338 | 356 | 640 |
| Stage 1 | - 107 | _ | _ | - | _ | _ | 772 | 713 | - 012 | 573 | 559 | - - - |
| Stage 2 | _ | _ | _ | _ | _ | _ | 570 | 552 | _ | 748 | 705 | _ |
| Platoon blocked, % | | _ | _ | | _ | <u>-</u> | 010 | JUL | | 1 10 | , 00 | |
| Mov Cap-1 Maneuver | 1134 | _ | _ | 1299 | _ | _ | 338 | 347 | 812 | 310 | 347 | 640 |
| Mov Cap-2 Maneuver | - | _ | _ | - | _ | _ | 338 | 347 | - 012 | 310 | 347 | - |
| Stage 1 | _ | | | _ | _ | _ | 770 | 712 | _ | 572 | 546 | _ |
| Stage 2 | _ | _ | _ | _ | _ | _ | 549 | 539 | _ | 700 | 704 | _ |
| Olaye Z | | | | | | | J -1 3 | 000 | | 100 | 7 0-1 | |
| | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Control Delay, s | 0.1 | | | 0.5 | | | 13 | | | 16.4 | | |
| HCM LOS | | | | | | | В | | | C | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvm | nt I | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SRI n1 | | | |
| Capacity (veh/h) | ic I | 529 | 1134 | LDT | | 1299 | VVD1 | - VVDIX | 344 | | | |
| HCM Lane V/C Ratio | | 0.15 | 0.002 | - | | 0.023 | - | | 0.079 | | | |
| | | 13 | 8.2 | - | | | - | | | | | |
| HCM Control Delay (s) HCM Lane LOS | | | | - | - | 7.8 | - | - | 16.4 C | | | |
| HCM 95th %tile Q(veh) | \ | 0.5 | A | - | - | 0.1 | - | - | 0.3 | | | |
| HOW SOUT WILLE Q(Ven) | | 0.5 | 0 | - | - | U. I | - | - | 0.3 | | | |

| Intersection | | | | | | |
|------------------------|--------|----------|--------|-------|--------|------|
| Int Delay, s/veh | 3.9 | | | | | |
| | | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Y | | 1 | | | 4 |
| Traffic Vol, veh/h | 36 | 0 | 15 | 13 | 0 | 20 |
| Future Vol, veh/h | 36 | 0 | 15 | 13 | 0 | 20 |
| Conflicting Peds, #/hr | 1 | 1 | 0 | 1 | 1 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage | e,# 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | _ | 0 | _ | _ | 0 |
| Peak Hour Factor | 73 | 73 | 73 | 73 | 73 | 73 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 49 | 0 | 21 | 18 | 0 | 27 |
| IVIVIII I IOVV | 73 | U | ۷1 | 10 | U | 21 |
| | | | | | | |
| Major/Minor | Minor1 | N | Major1 | 1 | Major2 | |
| Conflicting Flow All | 59 | 32 | 0 | 0 | 40 | 0 |
| Stage 1 | 31 | - | - | - | - | - |
| Stage 2 | 28 | - | - | _ | - | _ |
| Critical Hdwy | 6.42 | 6.22 | _ | _ | 4.12 | _ |
| Critical Hdwy Stg 1 | 5.42 | - | _ | _ | | _ |
| Critical Hdwy Stg 2 | 5.42 | _ | _ | _ | _ | _ |
| Follow-up Hdwy | 3.518 | 3 318 | _ | | 2.218 | |
| Pot Cap-1 Maneuver | 948 | 1042 | - | - | 1570 | |
| | 992 | 1042 | _ | - | 1370 | - |
| Stage 1 | | - | - | - | - | - |
| Stage 2 | 995 | - | - | - | - | - |
| Platoon blocked, % | 2.12 | 1010 | - | - | 4=00 | - |
| Mov Cap-1 Maneuver | 946 | 1040 | - | - | 1569 | - |
| Mov Cap-2 Maneuver | 946 | - | - | - | - | - |
| Stage 1 | 991 | - | - | - | - | - |
| Stage 2 | 994 | - | - | - | - | - |
| | | | | | | |
| Approach | WB | | NB | | SB | |
| | | | | | | |
| HCM Control Delay, s | 9 | | 0 | | 0 | |
| HCM LOS | A | | | | | |
| | | | | | | |
| Minor Lane/Major Mvn | nt | NBT | NBRV | VBLn1 | SBL | SBT |
| Capacity (veh/h) | | | - | - 44 | 1569 | |
| HCM Lane V/C Ratio | | <u>-</u> | | 0.052 | - | _ |
| HCM Control Delay (s | \ | | _ | 9 | 0 | _ |
| HCM Lane LOS | | - | _ | A | A | - |
| HCM 95th %tile Q(veh | 1 | - | | 0.2 | 0 | |
| HOW SOUT WILLE W(Ven | 1 | | - | 0.2 | U | - |

| Intersection | | | | | | |
|------------------------|--------|------|------------|-------|--------|--------|
| Int Delay, s/veh | 4 | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| | EDL | | | WDI | | SBR |
| Lane Configurations | 0 | 4 | 1 → | 11 | 30 | ٥ |
| Traffic Vol, veh/h | | 13 | | | 30 | 0 |
| Future Vol, veh/h | 0 | 13 | 14 | 11 | 30 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storag | e,# - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 57 | 57 | 57 | 57 | 57 | 57 |
| Heavy Vehicles, % | 2 | 8 | 8 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 23 | 25 | 19 | 53 | 0 |
| | | | | | | |
| Major/Minor | Major1 | ı | laior2 | | Minor2 | |
| | | | //ajor2 | | | 25 |
| Conflicting Flow All | 44 | 0 | - | 0 | 58 | 35 |
| Stage 1 | - | - | - | - | 35 | - |
| Stage 2 | - | - | - | - | 23 | - |
| Critical Hdwy | 4.12 | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1564 | - | - | - | 949 | 1038 |
| Stage 1 | - | - | - | - | 987 | - |
| Stage 2 | - | - | - | - | 1000 | - |
| Platoon blocked, % | | - | - | - | | |
| Mov Cap-1 Maneuver | 1564 | - | - | - | 949 | 1038 |
| Mov Cap-2 Maneuver | | - | _ | - | 949 | - |
| Stage 1 | - | _ | - | _ | 987 | _ |
| Stage 2 | _ | _ | _ | _ | 1000 | _ |
| otago 2 | | | | | 1000 | |
| | | | | | | |
| Approach | EB | | WB | | SB | |
| HCM Control Delay, s | 0 | | 0 | | 9 | |
| HCM LOS | | | | | A | |
| | | | | | | |
| Minor Lane/Major Mvr | nt | EBL | EBT | \\/DT | WBR: | CDI n1 |
| | iit | | | WBT | | |
| Capacity (veh/h) | | 1564 | - | - | - | 949 |
| HCM Lane V/C Ratio | , | - | - | - | | 0.055 |
| HCM Control Delay (s | 5) | 0 | - | - | - | 9 |
| HCM Lane LOS | | Α | - | - | - | Α |
| HCM 95th %tile Q(veh | 1) | 0 | - | - | - | 0.2 |

| Intersection | | | | | | | | | | | | |
|----------------------------|--------|----------|----------|----------|----------|-------|--------|-------|--------|--------|-------|-------|
| Int Delay, s/veh | 0.7 | | | | | | | | | | | |
| | | EDT | EDD | WDI | WDT | WDD | NDI | NDT | NDD | CDI | CDT | CDD |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | * | ↑ | | Ť | ↑ | • | • | 4 | • | • | 4 | _ |
| Traffic Vol, veh/h | 10 | 197 | 1 | 3 | 351 | 2 | 2 | 0 | 6 | 9 | 0 | 7 |
| Future Vol, veh/h | 10 | 197 | 1 | 3 | 351 | 2 | 2 | 0 | 6 | 9 | 0 | 7 |
| Conflicting Peds, #/hr | _ 0 | _ 0 | _ 0 | _ 0 | _ 0 | _ 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | 90 | - | - | 90 | - | - | - | - | - | - | - | - |
| Veh in Median Storage | e,# - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 |
| Heavy Vehicles, % | 11 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 17 |
| Mvmt Flow | 11 | 212 | 1 | 3 | 377 | 2 | 2 | 0 | 6 | 10 | 0 | 8 |
| | | | | | | | | | | | | |
| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
| Conflicting Flow All | 379 | 0 | 0 | 213 | 0 | 0 | 623 | 620 | 213 | 622 | 619 | 378 |
| Stage 1 | 319 | - | U | 213 | - | - | 235 | 235 | 213 | 384 | 384 | 3/0 |
| Stage 2 | _ | _ | | <u>-</u> | _ | | 388 | 385 | _ | 238 | 235 | |
| Critical Hdwy | 4.21 | _ | <u>-</u> | 4.12 | _ | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.37 |
| Critical Hdwy Stg 1 | ٦.۷ ا | _ | | 4.12 | - | | 6.12 | 5.52 | 0.22 | 6.12 | 5.52 | 0.37 |
| Critical Hdwy Stg 2 | | - | - | <u>-</u> | | - | 6.12 | 5.52 | | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.299 | _ | - | 2.218 | - | _ | 3.518 | | 3.318 | | 4.018 | 3.453 |
| Pot Cap-1 Maneuver | 1132 | - | - | 1357 | - | - | 398 | 4.016 | 827 | 399 | 4.016 | 637 |
| | | - | - | | - | - | 768 | 710 | 021 | 639 | 611 | 037 |
| Stage 1 | - | - | - | - | - | - | 636 | 611 | - | 765 | 710 | - |
| Stage 2 Platoon blocked, % | - | - | - | - | | | 030 | 011 | - | 100 | 110 | - |
| | 1120 | | - | 1357 | - | - | 390 | 399 | 827 | 392 | 399 | 637 |
| Mov Cap-1 Maneuver | 1132 | - | - | | - | - | | 399 | | 392 | 399 | |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 390 | | - | | | - |
| Stage 1 | - | - | - | - | - | - | 760 | 703 | - | 633 | 610 | - |
| Stage 2 | - | - | - | - | - | - | 627 | 610 | - | 752 | 703 | - |
| | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | |
| HCM Control Delay, s | 0.4 | | | 0.1 | | | 10.6 | | | 12.9 | | |
| HCM LOS | | | | | | | В | | | В | | |
| | | | | | | | | | | | | |
| Minor Lane/Major Mvn | nt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SRI n1 | | | |
| | IL | | 1132 | LDI | LDIX | 1357 | VVDI | WDI | | | | |
| Capacity (veh/h) | | 646 | | - | - | | - | - | 471 | | | |
| HCM Control Doloy (a) | | 0.013 | | - | - | 0.002 | - | - | 0.037 | | | |
| HCM Control Delay (s) | | 10.6 | 8.2 | - | - | 7.7 | - | - | 12.9 | | | |
| HCM Lane LOS | \ | В | A | - | - | A | - | - | В | | | |
| HCM 95th %tile Q(veh |) | 0 | 0 | - | - | 0 | - | - | 0.1 | | | |

| Intersection | | | | | | |
|------------------------|--------|-------|----------|-----------|--------|----------|
| Int Delay, s/veh | 9.5 | | | | | |
| | | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | M | | 13 | | * | ^ |
| Traffic Vol, veh/h | 138 | 149 | 195 | 57 | 116 | 256 |
| Future Vol, veh/h | 138 | 149 | 195 | 57 | 116 | 256 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | 190 | - |
| Veh in Median Storage | e,# 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | _ | _ | 0 |
| Peak Hour Factor | 91 | 91 | 91 | 91 | 91 | 91 |
| Heavy Vehicles, % | 2 | 2 | 4 | 2 | 2 | 2 |
| Mvmt Flow | 152 | 164 | 214 | 63 | 127 | 281 |
| IVIVIII I IOW | 102 | 104 | 217 | 00 | 121 | 201 |
| | | | | | | |
| Major/Minor | Minor1 | N | /lajor1 | 1 | Major2 | |
| Conflicting Flow All | 781 | 246 | 0 | 0 | 277 | 0 |
| Stage 1 | 246 | - | - | - | - | - |
| Stage 2 | 535 | _ | _ | _ | _ | _ |
| Critical Hdwy | 6.42 | 6.22 | _ | _ | 4.12 | _ |
| Critical Hdwy Stg 1 | 5.42 | - | _ | _ | - 1.12 | _ |
| Critical Hdwy Stg 2 | 5.42 | _ | _ | _ | _ | _ |
| Follow-up Hdwy | 3.518 | 3 318 | <u>-</u> | _ | 2.218 | _ |
| Pot Cap-1 Maneuver | 363 | 793 | | | 1286 | |
| Stage 1 | 795 | 133 | _ | _ | 1200 | _ |
| | 587 | - | - | - | - | - |
| Stage 2 | 567 | - | - | - | - | - |
| Platoon blocked, % | 007 | 700 | - | - | 4000 | - |
| Mov Cap-1 Maneuver | 327 | 793 | - | - | 1286 | - |
| Mov Cap-2 Maneuver | 327 | - | - | - | - | - |
| Stage 1 | 795 | - | - | - | - | - |
| Stage 2 | 529 | - | - | - | - | - |
| | | | | | | |
| Approach | WB | | NB | | SB | |
| | | | | | | |
| HCM Control Delay, s | 26.8 | | 0 | | 2.5 | |
| HCM LOS | D | | | | | |
| | | | | | | |
| Minor Lane/Major Mvr | nt | NBT | NBRV | VBLn1 | SBL | SBT |
| Capacity (veh/h) | | | - | 471 | 1286 | |
| HCM Lane V/C Ratio | | _ | <u>-</u> | | 0.099 | _ |
| HCM Control Delay (s |) | | | | 8.1 | |
| HCM Lane LOS | | _ | _ | 20.0 D | Α | - |
| HCM 95th %tile Q(veh | .\ | - | | 4.9 | 0.3 | |
| How som while Q(ven |) | - | - | 4.9 | 0.5 | - |

Appendix D Collision Rate Calculations and Data

OFFICER REPORTED CRASHES THAT OCCURRED ON ALL ROADS IN SKAMANIA COUNTY

OFFICE REPORTED CRASHES THAT OCCURRED DN ALL ROADS IN SKAMANIA COUNTY Intersection 27. Dam Access Road 37. and cress reads 37. safety data, regions, surveys, schedules, Londra 21 U.S. Code 37. data and 21 U.S. Code § 407, safety data, regions, surveys, schedules, Londra 21 U.S. Code 37. data and 21 U.S. Code § 407, safety data, regions, surveys, schedules, londra 21 U.S. Code 37. data and 21 U.S. Code § 407, safety data, regions, surveys, schedules, londra 21 U.S. Code 37. data and schedules are code of the code of the code of the code of the constitute are unature of the code of proceedings are considered for other purposes in any action for damages arising from any concerned as a location mentional of admitted in such regions. Topics, schedules, law, code concerned as a location mentional of admitted in such regions. Topics, schedules, law, code schedules, and code of the code of t

| aata. | | | | | | | | | | | | | | | | | | | | |
|--------------|----------|------------------|------------|----------|-------------------------|----------|---------|-----------|-------|--------------------|-----------|---------------------------------|---|----------------------|----------------------|--------------|----------------------|--------------|---------------------------------------|-------------------------|
| | | | | | SR ONLY ACCUMULATIVE | | | | | | # # # P | | | | VEHICLE 1 COMPASS | VEHICLE 1 | VEHICLE 2 COMPASS | VEHICLE 2 | | |
| | | | PRIMARY | | ROUTE | SUSPENSE | REPORT | | | MOST SEVERE INJURY | N A E E | | | | DIRECTION | COMPASS | DIRECTION | COMPASS | MV DRIVER CONTRIBUTING CIRCUMSTANCE 1 | MV DRIVER CONTRIBUTING |
| JURISDICTION | COUNTY | CITY | TRAFFICWAY | MILEPOST | MILEPOST (ARM) | IND | NUMBER | DATE | TIME | TYPE | JT HS | JUNCTION RELATIONSHIP | FIRST COLLISION TYPE / OBJECT STRUCK | VEHICLE 2 ACTION | FROM | DIRECTION TO | FROM | DIRECTION TO | (UNIT 1) | CIRCUMSTANCE 1 (UNIT 2) |
| State Route | Skamania | North Bonneville | 014 | 38.54 | 38.27 | No | EB61518 | 08/14/202 | 18:42 | Unknown | 00100 | At Intersection and Not Related | Street Light Pole or Base | | East | West | | | Under Influence of Alcohol | |
| State Route | Skamania | North Bonneville | 014 | 38.54 | 38.27 | No | ED51653 | 02/27/202 | 18:38 | Possible Injury | 1 0 1 0 0 | At Intersection and Related | Earth Bank or Ledge | | East | North | | | Improper Turn/Merge | |
| State Route | Skamania | North Bonneville | 014 | 38.54 | 38.27 | No | ED87300 | 08/07/202 | 17:58 | No Apparent Injury | | At Intersection and Related | From same direction - one right turn - one straight | Going Straight Ahead | East | North | East | West | Improper Turn/Merge | None |
| State Route | Skamania | North Bonneville | 014 | 38.55 | 38.28 | No | EC24201 | 02/23/202 | 18:31 | | | At Intersection and Related | Roadway Ditch | | West | North | | | Improper Turn/Merge | |

OFFICER REPORTED CRASHS THAT OCCURRED ON ALL ROADS IN SCAMANIA COUNTY Intersection 65: 98-14 for figs of the Gods 11/1/2003 - 12/1/2003 - 12/1/2004 -

| data. | | | | | | | | | | | | | | | | | | | |
|-------------|------------|------|------------|-------------|--------------------|----------------------|---------|------------|------------------------------|-------|-------------------------------|--|--------------------------------|----------------------|--------------|----------------------|-----------------|---------------------------------------|-------------------------|
| | | | | | R ONLY MULATIVE | SR ONLY HISTORY / | | | | ### | # E | | | VEHICLE 1 COMPASS | VEHICLE 1 | VEHICLE 2 COMPASS | VEHICLE 2 | | |
| | | | PRIMARY | ROUTE | MILEPOST | SUSPENSE | REPORT | | MOST SEVERE INJURY | N A E | d E | | | DIRECTION | COMPASS | DIRECTION | COMPASS | MV DRIVER CONTRIBUTING CIRCUMSTANCE 1 | MV DRIVER CONTRIBUTING |
| JURISDICT | ION COUNTY | CITY | TRAFFICWAY | MILEPOST (A | ARM) | IND | NUMBER | DATE | TIME TYPE | JTH | S JUNCTION RELATIONSHIP | FIRST COLLISION TYPE / OBJECT STRUCK | VEHICLE 2 ACTION | FROM | DIRECTION TO | FROM | DIRECTION TO | (UNIT 1) | CIRCUMSTANCE 1 (UNIT 2) |
| State Route | Skamania | | 014 | 41.55 41.46 | 1 | No | EF44400 | 12/09/2024 | 14:25 No Apparent Injury | 0 0 2 | 0 At Intersection and Related | From opposite direction - one left turn - one straight | Going Straight Ahead | North | East | South | North | Did Not Grant RW to Vehicle | None |
| State Route | Skamania | | 014 | 41.55 41.46 | 1 | No | EA93352 | 12/27/2020 | 12:01 Suspected Minor Injury | 2 0 2 | 0 At Intersection and Related | From opposite direction - one left turn - one straight | Going Straight Ahead | East | South | West | East | Did Not Grant RW to Vehicle | None |
| State Route | Skamania | | 014 | 41.55 41.46 | 1 | No | EE78157 | 05/10/2024 | 17:33 No Apparent Injury | 0 0 2 | 0 At Intersection and Related | From opposite direction - one left turn - one straight | Going Straight Ahead | Northeast | Southeast | Southwest | Northeast | Did Not Grant RW to Vehicle | None |
| State Route | Skamania | | 014 | 41.55 41.46 | 1 | No | ED87023 | 08/05/2023 | 10:05 Possible Injury | | 0 At Intersection and Related | Same direction both turning right both moving rear end | Stopped at Signal or Stop Sign | South | Northeast | Vehicle Stopped | Vehicle Stopped | Disregard Traffic Sign and Signals | None |
| State Route | Skamania | | 014 | 41.55 41.46 | 1 | No | EE83131 | 05/31/2024 | 15:47 No Apparent Injury | 0 0 2 | 0 At Intersection and Related | Entering at angle | Going Straight Ahead | Southeast | Southwest | Southwest | Northeast | Did Not Grant RW to Vehicle | None |
| State Route | Skamania | | 014 | 41.55 41.46 | 1 | No | 3843881 | 10/07/2020 | 11:00 Suspected Minor Injury | 2 0 2 | 0 At Intersection and Related | From same direction - both going straight - one stopped - rear-end | Stopped for Traffic | West | East | | Vehicle Stopped | Improper U-Turn | |

Collision Rate Calculations at 2. Dam Access Road / SR-14

| Intersect | ion: Dam Access Road / SR-14 | Date | 7/28/2025 |
|-------------|---|----------------------------|-----------|
| Ra = K = | System Wide Average collision rate = Statistical Constant = | 0. <i>6</i> 1.645 | |
| Average | Daily cars passing Through intersection ADT | 230 3710 400 2020 | |
| M= | Millions of Vehicles for a five year period = | 11.607 | |
| Rc= | Critical Rate = | 0.93 | |
| Coll | ision Rate | | |
| | Number of collisions = Number of years = | 5 | |
| | Collision Rate = | 0.34 | |
| Rc= Ra+ | (K*Ra/M)^.5)-1/(2*M) | | |

ADT = 2025 PM Count X 10

PM Peak Hour= Approx. 10% ADT

Collision Rate Calculations at 6. SR-14 / Bridge of the Gods

| Intersect | ion: Bombing Range Road / Keene R | oad Date | 7/28/2025 |
|------------------------|---|-------------------|-----------|
| Ra = K = Average | System Wide Average collision rate = Statistical Constant = Daily cars passing Through intersection ADT | 0.6 1.645 | |
| M= | Millions of Vehicles for a five year period = | 0 2560 2020 | |
| 1V1- | willions of vehicles for a five year period - | 14.41/3 | |
| Rc= | Critical Rate = | 0.90 | |
| Coll | ision Rate | | |
| | Number of collisions = Number of years = | 5 | |
| | Collision Rate = | 0.42 | |
| Rc= Ra+ | (K*Ra/M)^.5)-1/(2*M) | | |

ADT = 2025 PM Count X 10

PM Peak Hour= Approx. 10% ADT

Appendix E
Transportation Improvement Project

Project Detail Sheet Project #2 – SR 14 Deceleration Lane Construction

Vicinity Map

Project Summary



Priority: D

Length: 0.07 miles (375 feet)

<u>Status</u>: Awaiting funding and/or site development <u>Purpose</u>: Enable safe access to Dam Access Road;

Impact: Economic development

<u>Timeline</u>: Concurrent with property development

<u>Description</u>: Construct a deceleration lane for exit from State Route 14 on

to the Dam Access Road. Lane length will be as

recommended by Washington Department of Transportation. Ancillary improvements include Highway signage, striping Washington Department of Transportation, Port of Skamania

<u>Partners</u>: Washington Department of Transportation, Port of Skamania County, Corps of Engineers, Bonneville Power

Administration

Notes: None



Cost Estimates

Engineering: \$160,000

Real Property: \$0 (Existing ROW)

Construction: \$640,000

Funding

Loan(s): \$
County Road Fund: \$
TIF: \$
Federal Grant(s): \$
Other / Partners

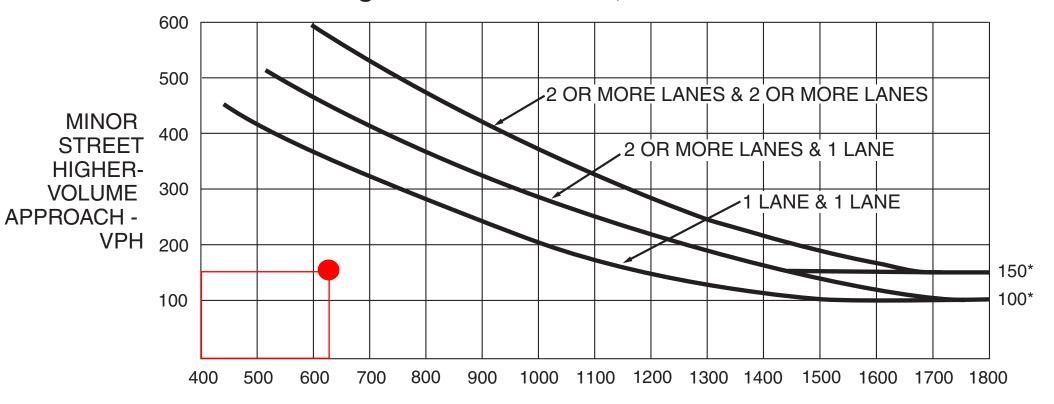
Port of Skamania: \$
Corps of Engineers: \$
Bonneville Power: \$
Projected Funds: \$0

Unfunded: \$800,000

Appendix F Peak Hour Signal Warrant

Intersection 6 - SR-14 / Bridge of the Gods

Figure 4C-3. Warrant 3, Peak Hour



MAJOR STREET—TOTAL OF BOTH APPROACHES— VEHICLES PER HOUR (VPH)

*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.