# 6645 SW Nyberg Lane Apartments 

Transportation Impact Study<br>Tualatin, Oregon

## Date:

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## Executive Summary

1. The proposed SW Nyberg Lane Apartments will include the construction of a 264 -unit apartment complex located at 6645 SW Nyberg Lane in Tualatin, Oregon. This report addresses the impacts of the proposed development on the nearby street system.
2. The trip generation calculations show that the proposed development is projected to generate approximately 133 site trips during the morning peak hour and 163 site trips during the evening peak hour.
3. The intersection of SW $65^{\text {th }}$ Avenue at SW Borland Road is projected to operate with a v/c ratio in excess of 1.00 by year 2019 with or without proposed development site trips. One potential mitigation to reduce the $\mathrm{v} / \mathrm{c}$ ratio includes restriping the northbound approach to include one shared left-turn/through lane and one right-turn lane. Upon implementation of the suggested mitigation, the intersection is projected to operate acceptably per City of Tualatin and Washington County standards.
4. All other study intersections are currently operating acceptably per their respective jurisdictional standards and are projected to continue operating acceptably upon build-out of the proposed development through year 2019. No operational mitigation is necessary or recommended at these intersections.
5. The I-5 southbound ramps intersection at SW Nyberg Street has experience a high number of pedestrian and bicycle related crashes between January 2011 and December 2015. According to the City of Tualatin's Transportation System Plan, two safety projects are planned for implementation in the short-term to help improve safety for pedestrians and bicyclists at the intersection. No other significant trends or crash patterns were identified at any of the other study intersection.
6. Adequate sight distance is available at the site access to ensure safe operation of the intersection along SW Nyberg Lane. No sight distance mitigation is necessary or recommended.

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## Project Description and Location

## Introduction

A 264-unit apartment complex is proposed for construction on the property located at 6645 SW Nyberg Lane in Tualatin, Oregon. This report addresses the impacts of the proposed development on the nearby street system. This study includes safety and capacity/level-of-service analyses at the following intersections:

- Interstate 5 (I-5) Southbound Ramps at SW Nyberg Street;
- I-5 Northbound Ramps at SW Nyberg Street;
- Nyberg Woods Shopping Mall Access at SW Nyberg Street;
- SW Nyberg Lane at SW Nyberg Street/SW 65 ${ }^{\text {th }}$ Avenue;
- $\quad$ Site Access at SW Nyberg Lane;
- SW 65 th Avenue at SW Borland Road; and
- SW 65 th Avenue at SW Sagert Street.

The purpose of this study is to determine whether the transportation system within the vicinity of the site is capable of safely and efficiently supporting the existing and proposed uses and to determine any mitigation that may be necessary to do so. Detailed information on traffic counts, trip generation calculations, safety analyses, and level-of-service calculations is included in the appendix to this report.

## Project and Location Description

The project site is located north of SW Nyberg Lane near the intersection of SW Nyberg Lane at SW Nyberg Street in Tualatin, Oregon. The subject site is surrounded by a mix of land-uses, with apartments to the east and west, commercial and service uses to the south, and the Tualatin River to the north. One notable development near the project site includes the Nyberg Woods Shopping Mall located within a quarter-mile walking/biking distance west of the site.

The site includes two tax lots (lots 2600 and 2601), which encompasses an approximate total of 10.89 acres, and is currently developed as an RV Park which has been vacated since 2012. Access to the site will be provided via a single existing driveway along SW Nyberg Lane.

## Vicinity Streets

SW Nyberg Street is classified by the City of Tualatin as a Major Arterial. The roadway has a varying crosssection of four to eight lanes and has a posted speed limit of 35 mph east and west of the I-5 overpass and a posted speed of 30 mph along the overpass. Bicycle lanes are provided along both sides of the roadway east

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of the Nyberg Woods Shopping Mall access. Curbs are provided along both sides of the roadway while sidewalks are provided on both sides except along the south side of the I-5 overpass.

SW Nyberg Lane is classified by the City of Tualatin as a Minor Collector. The roadway has a two to threelane cross-section within the site vicinity and has a posted speed limit of 35 mph . Curbs and sidewalks are provided along both sides of the roadway while bicycle lanes are provided along both sides east of the project site.

SW Borland Road is classified by the City of Tualatin as a Major Arterial. The roadway has a three-lane crosssection, with one travel lane in each direction and a center two-way left-turn lane, and has a posted speed of 35 mph . Bicycle lanes are provided along both sides of the roadway east of the Legacy Meridian Park Medical Center access. Curbs and sidewalks are provided along the north side of the roadway while intermittently along the south side.

SW Sagert Street is classified by the City of Tualatin as a Major Arterial. The roadway has a two-lane crosssection and has a posted speed of 35 mph . Curbs, sidewalks, and bicycle lanes are provided along both sides of the roadway.

SW $65^{\text {th }}$ Avenue is classified by the City of Tualatin as a Major Arterial north and a Minor Collector south of SW Sagert Street. The roadway has a three-lane cross-section, with one travel lane in each direction and a center two-way left-turn lane, north and a two-lane cross-section south of SW Sagert Street. It has a posted speed of 35 mph . Bicycle lanes are intermittently provided along both sides of the roadway. Curbs and sidewalks are generally provided along both sides of the roadway north of SW Sagert Street.

## Study Intersections

The intersection of SW Nyberg Street at the I-5 southbound ramps is a four-legged intersection that is controlled by a traffic signal. The southbound I-5 ramp approach has two right-turn lanes, one shared through/left-turn lane, and one left-turn lane. The eastbound approach has three through lanes, one channelized right-turn lane that operates under yield control, and a bicycle lane situated in between the outermost through and right-turn lanes. The westbound approach has one left-turn lane served with protected phasing, two through lanes, and a bicycle lane to the right of the outermost standard travel lane. A crosswalk is marked across the northern intersection leg.

The intersection of SW Nyberg Street at the I-5 northbound ramps is a four-legged intersection that is controlled by a traffic signal. The northbound I-5 ramp approach has one left-turn lane, one shared leftturn/through lane, and one channelized right-turn lane that operates under signal control. The eastbound approach has two through lanes, two channelized right-turn lanes that operate under free-flow conditions, and a bicycle lane to the right of the outermost standard travel lane. The westbound approach has one channelized right-turn lane that operates under yield control, two through lanes, and a bicycle lane situated in between the outermost through and right-turn lanes. Crosswalks are marked across the northern and eastern intersection legs.

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The Nyberg Woods Shopping Mall access intersection at SW Nyberg Street is a four-legged intersection that is controlled by a traffic signal. The northbound approach has one shared full-movement turning lane and one right-turn lane. The southbound approach has one shared left-turn/through lane and one right-turn lane served with permitted/overlap phasing. The eastbound approach has two left-turn lanes served with protected phasing, one through lane, one shared through/right-turn lane, and a bicycle lane to the right of the outermost standard travel lane. The westbound approach has one left-turn lane served with protected phasing, one through lane, one shared through/right-turn lane, and a bicycle lane to the right of the outermost standard travel lane. Crosswalks are marked across all four intersection legs.

The intersection of SW Nyberg Lane at SW Nyberg Street/SW 65th Avenue is a four-legged intersection that is controlled by a traffic signal. The northbound approach has one shared left-turn/through lane and one right-turn lane. The southbound approach has one shared left-turn/through lane and one right-turn lane served with permitted/overlap phasing. The eastbound approach has one left-turn lane served with Flashing-Yellow-Arrow (FYA) phasing and one shared through/right-turn lane. The westbound approach has one leftturn lane served with FYA phasing, one through lane, and one shared through/right-turn lane. Crosswalks are marked across all four intersection legs.

The existing site access intersection at SW Nyberg Street is a three-legged intersection that is stop-controlled for the southbound access approach. The southbound and westbound approaches each have one shared lane for all turning-movements. The eastbound approach has one left-turn lane and one through lane. A sidewalk is provided across the northern intersection leg.

The intersection of SW $65^{\text {th }}$ Avenue at SW Borland Road is a four-legged intersection that is controlled by a traffic signal. The northbound approach has one left-turn lane served with permitted/protected phasing, one shared through/right-turn lane, and a bicycle lane to the right of the outermost standard travel lane. The southbound approach has one left-turn lane served with permitted/protected phasing and one shared through/right-turn lane. The eastbound approach has one shared lane for all turning-movements. The westbound approach has one shared left-turn/through lane and one right-turn lane served with permitted/overlap phasing.

The intersection of SW $65^{\text {th }}$ Avenue at SW Sagert Street is a four-legged intersection that is all-way stopcontrolled. The northbound and westbound approaches each have one shared lane for all turning movements. The southbound approach has one left-turn lane, one through lane, one right-turn lane, and a bicycle lane situated in between the through and right-turn lanes. The eastbound approach has one shared left-turn/through lane and one right-turn lane. Crosswalks are marked across the southern and western intersection legs and a sidewalk is provided across the eastern leg.

The intersection of SW $65^{\text {th }}$ Avenue at SW Sagert Street is currently undergoing reconstruction and will likely operate under signal control by the projected 2019 build-out year of the proposed development. The future intersection lane configuration will include one left-turn lane, one shared through/right-turn lane, and a bicycle lane to the right of the outermost standard travel lane for the northbound, eastbound, and westbound approaches. The southbound approach will maintain its existing lane configuration. The eastbound and westbound left-turns will be served by permitted phasing while the northbound and southbound left-turn lanes will be served by FYA phasing.

A vicinity map displaying the project site, vicinity streets, and the study intersections with their associated lane configurations is shown in Figure 1 on page 6.

## Transit

The project site is located near one transit line that has stops within a quarter-mile to half-mile walking/biking distance south of the site. Complete sidewalks and adequate crossing measures at intersections are available between the project site and each of the transit stop locations allowing for safe and comfortable travel for transit users.

TriMet bus line \#76 - Beaverton/ Tualatin provides service between Beaverton Transit Center and Legacy Meridian Park Hospital in the City of Tualatin, with notable stops near Washington Square Mall/Transit Center, Tigard Transit Center, Tigard High School, and Tualatin Park \& Ride. Weekday service is scheduled from approximately 5:45 AM to 11:15 PM and has headways of approximately 30 to 45 minutes. Saturday service is scheduled from approximately 6:30 AM to 10:30 PM and has headways of approximately 30 to 60 minutes. Sunday service is scheduled from approximately 6:30 AM to 10:30 PM and has headways of approximately 30 to 70 minutes.

## Traffic Counts

Traffic counts were conducted at the study intersections on Wednesday, August 30 ${ }^{\text {th }}, 2017$, from 7:00 AM to 9:00 AM and on Tuesday, August 29th , 2017, from 4:00 PM to 6:00 PM. Data was used from each intersection's respective morning and evening peak hours.

Due to construction occurring at the intersection of SW $65^{\text {th }}$ Avenue at SW Sagert Street, traffic count data obtained on Wednesday, April 6 ${ }^{\text {th }}, 2016$, from 7:00 AM to 9:00 AM and on Tuesday, April $5^{\text {th }}, 2016$, from 4:00 PM and 6:00 PM was used. Comparing traffic count data collected at the study intersections between years 2016 and 2017, traffic volumes within the nearby site vicinity on average decreased by 6.26 percent during the morning peak period and decreased by approximately 0.05 percent during the evening peak period. In order to maintain a conservative analysis, year 2016 traffic volumes at the intersection SW $65^{\text {th }}$ Avenue at SW Sagert Street were used without reflecting the reduction in vehicle traffic between years 2016 to 2017.

Although the site is developed as an RV park, the park has been closed since 2012 with the access currently chained off. Accordingly, it was assumed that a nominal number of trips travel to and from the site under existing conditions, and traffic volumes along SW Nyberg Lane were balanced with the intersection of SW Nyberg Lane at SW Nyberg Street.

Figure 2 on page 7 and Figure 3 on page 8 show the existing morning and evening peak hour traffic volumes at the study intersections, respectively.




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## Site Trips

## Trip Generation

The proposed apartment complex at 6645 SW Nyberg Lane will include the construction of 264 apartment units. To estimate the number of trips that will be generated by the proposed development, trip equations from the TRIP GENERATION MANUAL ${ }^{1}$ were used. Data from land-use code 220, Apartment, was used to estimate the proposed development's trip generation based on the number of dwelling units.

The trip generation calculations show that the proposed development is projected to generate approximately 133 site trips during the morning peak hour and 163 site trips during the evening peak hour. The trip generation estimates of the proposed development are summarized in Table 1 below. Detailed trip generation calculations are included in the technical appendix to this report.

Table 1 - Trip Generation Summary

|  | ITE Code | Size | Morning Peak Hour |  |  | Evening Peak Hour |  |  | Weekday <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Enter | Exit | Total | Enter | Exit | Total |  |
| Proposed Development | 220 | 264 units | 27 | 106 | 133 | 106 | 57 | 163 | 1,724 |

It should be noted that the following analysis within this study assumes the construction of a 268 -unit apartment facility, based on a prior site plan, rather than the above described 264-unit apartment. Since the lot count has decreased, the remainder of this study analyzes the impacts of a larger development.
Accordingly, the transportation impacts detailed within this report may be considered conservative.

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## Trip Distribution

The directional distribution of site trips to/from the project site was estimated based on locations of likely trip destinations, locations of major transportation facilities in the site vicinity, and existing travel patterns at study intersections.

The following trip distribution was estimated and used for analysis:

- Approximately 45 percent of site trips will travel to/from the north along I-5;
- Approximately 20 percent of site trips will travel to/from the west along SW Nyberg Street;
- Approximately 15 percent of site trips will travel to/from the south along I-5;
- Approximately 5 percent of site trips will travel to/from the Nyberg Woods Shopping Mall;
- Approximately 5 percent of site trips will travel to/from the east along SW Nyberg Lane;
- Approximately 5 percent of site trips will travel to/from the east along SW Borland Road; and
- Approximately 5 percent of site trips will travel to/from the west along SW Sagert Street.

The trip assignment for the site trips generated by the proposed development during the morning and evening peak hours are shown in Figure 4 on page 11 and Figure 5 on page 12, respectively.



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## Operational Analysis

## Background Volumes

To provide analysis of the impact of the proposed development on the nearby transportation facilities, an estimate of future traffic volumes is required. In order to calculate the future traffic volumes at the study intersections, a compounded growth rate of two percent per year for an assumed build-out condition of two years was applied to the measured existing traffic volumes to approximate year 2019 background conditions.

In addition to the traffic volume growth described above, the Sagert Farms Subdivision, located south of the project site, is currently approved for construction within the site vicinity and is in the process of being developed. Additional in-process trips corresponding to the development were added to the projected year 2019 traffic volumes at each of the study intersections.

Figure 6 on page 14 and Figure 7 on page 15 show the projected year 2019 background traffic volumes at the study intersections during the morning and evening peak hours, respectively.

## Background Volumes plus Site Trips

Peak hour trips calculated to be generated by the proposed development, as described earlier within the Site Trips section, were added to the projected year 2019 background traffic volumes to obtain the expected 2019 background volumes plus site trips.

Figure 8 on page 16 and Figure 9 on page 17 show the projected year 2019 peak hour background traffic volumes plus proposed development site trips at the study intersections during the morning and evening peak hours, respectively.





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## Capacity Analysis

A capacity and delay analysis was conducted for each of the study intersections per the signalized and unsignalized intersection analysis methodologies in the HIGHW AY CAPACITY MANUAL² (HCM). The level of service (LOS) of an intersection can range from LOS A, which indicates very little or no delay experienced by vehicles, to LOS F, which indicates a high degree of congestion and delay. The volume-tocapacity ( $\mathrm{v} / \mathrm{c}$ ) ratio is a measure that compares the traffic volumes (demand) against the available capacity of an intersection.

The City of Tualatin standards require a minimum LOS E or better. For both LOS and delay related to the analysis of unsignalized intersections, the reported result applies to the worst movement. In addition, Washington County standards require intersections operate with av/c ratio of 0.99 or less.

The I- 5 southbound ramps intersection at SW Nyberg Street operates at LOS C with a v/c ratio of 0.87 or less during the morning peak hour and at LOS D with a $\mathrm{v} / \mathrm{c}$ ratio of 0.96 or less during the evening peak hour for all analysis scenarios.

The I-5 northbound ramps intersection at SW Nyberg Street operates at LOS C with a v/c ratio of 0.72 or less during the morning peak hour and at LOS D with a $\mathrm{v} / \mathrm{c}$ ratio of 0.76 or less during the evening peak hour for all analysis scenarios.

The intersection of the Nyberg Woods Shopping Mall access at SW Nyberg Street operates at LOS A with a $\mathrm{v} / \mathrm{c}$ ratio of 0.60 or less during the morning peak hour and at LOS B with a v/c ratio of 0.66 or less during the evening peak hour through year 2019 without build-out of the proposed development. Upon build-out of the proposed development, the intersection is projected to operate at LOS B with $\mathrm{v} / \mathrm{c}$ ratios of 0.64 and 0.70 during the morning and evening peak hours, respectively.

The intersection of SW Nyberg Lane at SW Nyberg Street/SW 65th Avenue currently operates at LOS A with $\mathrm{v} / \mathrm{c}$ ratios of 0.58 and 0.68 during the morning and evening peak hours, respectively. Under year 2019 background conditions, the intersection if projected to operate at LOS A with a $\mathrm{v} / \mathrm{c}$ ratio of 0.61 during the morning peak hour and at LOS B with a v/c ratio of 0.72 during the evening peak hour. Upon build-out of the proposed development, the intersection is projected to operate at LOS B with v/c ratios of 0.61 and 0.74 during the morning and evening peak hours, respectively.

Upon build-out of the proposed development, the intersection of SW Nyberg Lane at the site access is projected to operate at LOS B with a v/c ratio of 0.16 during the morning peak hour and at LOS A with a $\mathrm{v} / \mathrm{c}$ ratio of 0.08 during the evening peak hours.

The intersection of SW 65 th Avenue at SW Borland Road currently operates at LOS C with a v/c ratio of 0.83 during the morning peak hour and at LOS D with a v/c ratio of 0.94 during the evening peak hour. Under year 2019 background conditions, regardless the addition of site trips, the intersection is projected to operate

[^1]at LOS C with a $\mathrm{v} / \mathrm{c}$ ratio of 0.90 or less during the morning peak hour and at LOS D with $\mathrm{a} \mathrm{v} / \mathrm{c}$ ratio in excess of 1.00 .

The intersection of SW $65^{\text {th }}$ Avenue at SW Sagert Street currently operates at LOS E during both the morning and evening peak hours under all-way stop-control. Under year 2019 background conditions with installation of a traffic signal, regardless the addition of site trips, the intersection is projected to operate at LOS B with a $\mathrm{v} / \mathrm{c}$ ratio of 0.64 during the morning peak hour and at LOS C with $\mathrm{a} \mathrm{v} / \mathrm{c}$ ratio of 0.73 during the evening peak hour.

The $\mathrm{v} / \mathrm{c}$, delay, and LOS results of the capacity analysis are shown in Table 2 for the morning and evening peak hours. Detailed calculations as well as tables showing the relationship between delay and LOS are included in the appendix to this report.

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Table 2 - Capacity Analysis Summary

|  | Morning Peak Hour |  |  | Evening Peak Hour |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | LOS | Delay (s) | v/c | LOS | Delay (s) | v/c |
| I-5 SB Ramps at Nyberg Street |  |  |  |  |  |  |
| 2017 Existing Conditions | C | 25 | 0.81 | D | 36 | 0.91 |
| 2019 Background Conditions | C | 26 | 0.85 | D | 39 | 0.95 |
| 2019 Background plus Site Conditions | C | 27 | 0.87 | D | 40 | 0.96 |
| I-5 NB Ramps at Nyberg Street |  |  |  |  |  |  |
| 2017 Existing Conditions | C | 21 | 0.67 | B | 16 | 0.71 |
| 2019 Background Conditions | C | 23 | 0.70 | B | 18 | 0.74 |
| 2019 Background plus Site Conditions | C | 24 | 0.72 | B | 18 | 0.76 |
| Nyberg Woods Access at Nyberg Street |  |  |  |  |  |  |
| 2017 Existing Conditions | A | 10 | 0.57 | B | 13 | 0.62 |
| 2019 Background Conditions | A | 10 | 0.60 | B | 13 | 0.66 |
| 2019 Background plus Site Conditions | B | 10 | 0.64 | B | 14 | 0.70 |
| Nyberg Lane at Nyberg Street/65th Avenue |  |  |  |  |  |  |
| 2017 Existing Conditions | A | 10 | 0.58 | A | 10 | 0.68 |
| 2019 Background Conditions | A | 10 | 0.61 | B | 11 | 0.72 |
| 2019 Background plus Site Conditions | B | 12 | 0.61 | B | 12 | 0.74 |
| Site Access at Nyberg Lane |  |  |  |  |  |  |
| 2017 Existing Conditions | B | 10 | $<0.01$ | A | 10 | < 0.01 |
| 2019 Background Conditions | B | 10 | $<0.01$ | A | 10 | $<0.01$ |
| 2019 Background plus Site Conditions | B | 11 | 0.16 | A | 10 | 0.08 |
| 65th Avenue at Borland Road |  |  |  |  |  |  |
| 2017 Existing Conditions | C | 28 | 0.83 | D | 41 | 0.94 |
| 2019 Background Conditions | C | 33 | 0.89 | D | 53 | 1.03 |
| 2019 Background plus Site Conditions | C | 33 | 0.90 | D | 53 | 1.03 |
| 65th Avenue at Sagert Street |  |  |  |  |  |  |
| 2017 Existing Conditions | E | 47 | - | E | 45 | - |
| 2019 Background Conditions* | B | 19 | 0.64 | C | 24 | 0.73 |
| 2019 Background plus Site Conditions* | B | 19 | 0.64 | C | 25 | 0.73 |

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The intersection of SW $65^{\text {th }}$ Avenue at SW Borland Road, a Washington County facility, is projected to operate with a $\mathrm{v} / \mathrm{c}$ ratio in excess of 1.00 by year 2019 regardless of trips from the proposed development. Further inspection and potential mitigation at the intersection is discussed within the Mitigation Analysis section of this report.

All other study intersections are currently operating acceptably per their respective jurisdictional standards and are projected to continue operating acceptably upon build-out of the proposed development through year 2019. No operational mitigation is necessary or recommended at these intersections.

## Mitigation Analysis

As determined within the Capacity Analysis section, the intersection of SW $65^{\text {th }}$ Avenue at SW Borland Road is projected to operate with a $\mathrm{v} / \mathrm{c}$ ratio in excess of 1.00 during the evening peak hour by year 2019, with or without proposed development site trips.

One potential mitigation that may reduce the $\mathrm{v} / \mathrm{c}$ ratio to levels below 1.00 would include restriping the northbound approach to include one shared left-turn/through lane and one right-turn lane. The southbound left-turn approach will maintain FYA phasing while the westbound right-turn will continue to be served by permitted/overlap phasing.

Table 5 on the following page shows the $\mathrm{v} / \mathrm{c}$, delay, and LOS results of the mitigation capacity analysis during the morning and evening peak hours.

## Table 3 - Mitigation Analysis Summary

|  | Morning Peak Hour |  | Evening Peak Hour |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | LOS | Delay (s) | v/c | LOS | Delay (s) | v/c |
| 65th Avenue at Borland Road |  |  |  |  |  |  |
| 2019 Badkground plus Site Conditions | C | 33 | 0.90 | D | 53 | 1.03 |
| 2019 Mitigated Conditions* | B | 19 | 0.79 | C | 25 | 0.86 |

[^3]Based on the capacity analysis, the potential mitigation described above may improve operation at the intersection at SW $65^{\text {th }}$ Avenue at SW Borland Road to acceptable levels per Washington County standards.

## Safety Analysis

## Crash Data Analysis

Using data obtained from the Oregon Department of Transportation's (ODOT) Crash Analysis and Reporting Unit, a review of the most recent available five years of crash history (from January 2011 to December 2015) at the study intersections was performed. The crash data was evaluated based on the number of crashes, the type of collisions, the severity of the collisions, and the resulting crash rate for the intersection. Crash rates provide the ability to compare safety risks at different intersections by accounting for both the number of crashes that have occurred during the study period and the number of vehicles that typically travel through the intersection. Crash rates were calculated using the common assumption that traffic counted during the evening peak period represents 10 percent of average daily traffic (ADT) at the intersection. Crash rates in excess of one to two crashes per million entering vehicles (CMEV) may be indicative of design deficiencies and therefore require a need for further investigation and possible mitigation.

## I-5 Southbound Ramps at SW Nyberg Street

The intersection of the I-5 southbound ramps at SW Nyberg Street had 68 reported crashes during the analysis period. The crashes consisted of 38 rear-end collisions, 16 turning-movement collisions, 6 collisions involving a pedestrian, 5 collisions involving a bicyclist, 2 sideswipe collisions, and 1 angle-type collision. Of the reported crashes, 27 were classified as "Property Damage Only" (PDO), 33 were classified as "Possible Injury - Complaint of Pain" (Injury C), and 8 were classified as "Non-Incapacitating Injury" (Injury B). The crash rate at the intersection was calculated to be 0.69 CMEV.

There were 11 crashes at the intersection which involved either a pedestrian or a bicyclist. The following includes a listed description of each crash:

- The driver of a southbound right-turning passenger car made an improper start from a stopped position and failed to yield right-of-way to an east/west traveling pedestrian who was utilizing an intersection crosswalk. The pedestrian sustained injuries consistent with Injury $C$.
- An east/west traveling bicyclist illegally entered the intersection and struck a southbound rightturning passenger car. The bicyclist sustained injuries consistent with Injury $C$ classification.
- An east/west traveling bicyclist illegally entered the intersection and collided with a southbound right-turning passenger car that was conducting the turning maneuver on a red from a stopped position. The bicyclist sustained injuries consistent with Injury $B$ classification.
- The driver of a southbound right-turning passenger car, turning on a red from a stopped position, collided with an east/west traveling bicyclist who illegally entered the intersection. The bicyclist sustained injuries consistent with Injury $B$ classification.
- The driver of a southbound right-turning passenger car, turning on a red from a stopped position, failed to yield right-of-way to an east/west traveling pedestrian who was utilizing the crosswalk at the intersection. The pedestrian sustained injuries consistent with Injury $B$ classification.


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- The driver of a southbound right-turning passenger car, turning on a red from a stopped position, failed to yield right-of-way to an east/west bicyclist. The bicyclist sustained injuries consistent with Injury $B$ classification.
- An east/west traveling pedestrian, who was utilizing an intersection crosswalk, disregarded the traffic signal and was struck by a southbound right-turning passenger car. The pedestrian sustained injuries consistent with Injury $B$ classification.
- The driver of a southbound passenger car failed to yield right-of-way to an east/west traveling pedestrian who was utilizing an intersection crosswalk. The pedestrian sustained injuries consistent with Injury $C$ classification.
- The driver of a southbound right-turning passenger car struck an east/west traveling pedestrian who was utilizing an intersection crosswalk. It is unclear who disregarded the traffic signal. The pedestrian sustained injuries consistent with Injury $C$ classification.
- The driver of a southbound right-turning passenger car failed to yield right-of-way to an east/west traveling pedestrian who was utilizing an intersection crosswalk. The pedestrian sustained injuries consistent with Injury $C$ classification.
- The driver of a southbound right-turning passenger car failed to yield right-of-way to an east/west traveling bicyclist. The bicyclist sustained injuries consistent with Injury $C$ classification.

Upon reviewing the crash data, it is notable that a high number of pedestrian and bicycle related crashes occurred at the intersection. Two projects, described within the City of Tualatin's TSP, are planned for implementation and are expected to help mitigate safety issues at the intersection. The two projects are described in Table 5 below.

Table 4 - Planned TSP Projects

| Project <br> ID | Project Description | Cost <br> Estimate | Champion | Funding Source | Priority |
| :---: | :---: | :---: | :---: | :---: | :---: |
| R44 | Move the guardrail directly east of the I-5 southbound off-ramp to the north to improve sight distance for vehides turning west off of I-5. | \$32,000 | $\begin{aligned} & \text { City, } \\ & \text { ODOT } \end{aligned}$ | TDT, Gas Tax | Short-Term |
| BP14 | Add skip striping for the bicyde lane across the I-5 southbound off-ramp on the west end of the interchange. | \$2,000 | $\begin{aligned} & \text { City, } \\ & \text { ODOT } \end{aligned}$ | Bike/Ped Funds, Travel Options | Short-Term |

l-5 Northbound Ramps at SW Nyberg Street
The intersection of the I-5 northbound ramps at SW Nyberg Street had 30 reported crashes during the analysis period. The crashes consisted of 21 rear-end collisions, 6 turning-movement collisions, 2 sideswipe collisions, and 1 collision involving a bicyclist. Of the reported crashes, 13 were classified as PDO, 14 were
classified as Injury $C$, and 3 were classified as Injury $B$. The crash rate at the intersection was calculated to be 0.39 CMEV.

One of the crashes at the intersection involved a bicyclist. The crash occurred when the driver of a northbound right-turning passenger car failed to yield right-of-way to an east/west traveling bicyclist. The bicyclist sustained injuries consistent with Injury $B$ classification.

## Nyberg Woods Shopping Mall Access at SW Nyberg Street

The intersection of the Nyberg Woods Shopping Mall access at SW Nyberg Street had 9 reported crashes during the analysis period. The crashes consisted of 4 turning-movement collisions, 2 angle-type collisions, 1 rear-end collision, 1 collision involving a pedestrian, and 1 collision involving a bicyclist. Of the reported crashes, 2 were classified as PDO, 4 were classified as Injury $C, 1$ was classified as Injury B, and 2 were classified as "Incapacitating Injury - Bleeding, Broken Bones" (Injury A). The crash rate at the intersection was calculated to be 0.18 CMEV .

Two of the crashes at the intersection involved either a pedestrian or a bicyclist. The crash involving a pedestrian occurred when the driver of a southbound right-turning passenger car failed to yield right-of-way to a north/south traveling pedestrian. The pedestrian sustained injuries consistent with Injury $C$ classification. The crash involving a bicyclist occurred when the driver of a westbound right-turning passenger car collided with an east/west traveling bicyclist who illegally entered the intersection. The bicyclist sustained injuries consistent with Injury $B$ classification.

Two of the crashes at the intersection resulted in injuries classified as an Injury $A$ collision. One of the crashes occurred when the driver of a southbound right-turning passenger car made an improper turn by turning from the wrong travel lane and collided with northbound left-turning motorcyclist. The motorcyclist sustained injuries while the driver of the passenger car was uninjured. The second crash occurred when the driver of a westbound passenger car disregarded the traffic signal and collided with a southbound passenger car. The driver of the southbound vehicle sustained injuries while the driver of the westbound vehicle was uninjured.

## SW Nyberg Lane at SW Nyberg Street/SW 65 ${ }^{\text {th }}$ Avenue

The intersection of the SW Nyberg Lane at SW Nyberg Street had 13 reported crashes during the analysis period. The crashes consisted of 9 rear-end collisions, 2 turning-movement collisions, 1 angle-type collision, and 1 collision involving a bicyclist. Of the reported crashes, 3 were classified as $P D O, 7$ were classified as Injury $C$, and 3 was classified as Injury B. The crash rate at the intersection was calculated to be 0.32 CMEV.

One of the crashes at the intersection involved a bicyclist. The crash occurred when the driver of an eastbound right-turning passenger car failed to yield right-of-way to an east/west traveling bicyclist who struck the passenger vehicle. The bicyclist sustained injuries consistent with Injury $C$ classification.

## b

SW 65 ${ }^{\text {th }}$ Avenue at SW Borland Road
The intersection of SW $65^{\text {th }}$ Avenue at SW Borland Road had 9 reported crashes during the analysis period. The crashes consisted of 5 turning-movement collisions, 2 rear-end collisions, and 2 angle-type collisions. Of the reported crashes, 6 were classified as $P D O, 2$ were classified as Injury $C$, and 1 was classified as Injury $B$. The crash rate at the intersection was calculated to be 0.23 CMEV.

SW $65^{\text {th }}$ Avenue at SW Sagert Street
The intersection of SW $65^{\text {th }}$ Avenue at SW Sagert Street had 14 reported crashes during the analysis period. The crashes consisted of 7 turning-movement collisions, 5 rear-end collisions, and 2 angle-type collisions. Of the reported crashes, 6 were classified as $P D O$ and 8 were classified as Injury $C$. The crash rate at the intersection was calculated to be 0.51 CMEV.

Based on the most recent five years of available crash data, no significant trends or crash patterns were identified at any of the study intersection. Accordingly, no specific safety mitigation is recommended.

## Sight Distance Analysis

Sight distance was examined for the site access intersection located along SW Nyberg Lane. Intersection sight distance was measured and evaluated in accordance with the standards established in A Policy on Geometric Design of Highways and Streets ${ }^{3}$. According to AASHTO, the driver's eye is assumed to be 15 feet from the near edge of the nearest travel lane of the intersecting street and at a height of 3.5 feet above the minor-street approach pavement. The vehicle driver's eye-height along the major-street approach is assumed to be 3.5 feet above the cross-street pavement.

Based on the posted speed limit of 35 mph along SW Nyberg Lane, the minimum required intersection sight distance for maintaining relatively uninterrupted traffic flow along the roadway is 390 feet, assuming the twoway left-turn lane may be used to conduct a two-stage left-turn. Intersection sight distance at the site access was measured to be 313 feet to the east, limited by a crest curve in the roadway, and measured to be approximately 285 feet to the west, back to the intersection of SW Nyberg Lane at SW Nyberg Street.

Although sight distance to the west was measured to be less than the minimum recommended sight distance for a 35-mph roadway, vehicles at the intersection of SW Nyberg Lane at SW Nyberg Street would be turning onto SW Nyberg Lane at speeds well below the posted speed of 35 mph . Assuming vehicles that turn onto SW Nyberg Lane are traveling at 20 mph , a minimum intersection sight distance of 225 feet is recommended. Therefore, the minimum recommended intersection sight distance is met for eastbound vehicles approaching the site access intersection.

Sight distance to the east of the site access intersection was measured to be is less than the minimum recommended intersection sight distance. According to the AASHTO manual, stopping sight distance is

[^4]
## $\xi$

considered the minimum requirement to ensure safe operation of an intersection. This is the distance that allows an oncoming driver to see a hazard on the roadway, react, and come to a complete stop if necessary to avoid a collision. Conversely, intersection sight distance is an operation measure intended to provide sufficient line of sight along the major-street so that a driver could turn from the minor-street approach without impeding traffic flow. Based on the measured intersection sight distance, adequate stopping sight distance is available for westbound approaching vehicles traveling up to 41 mph .

Based on the detailed analysis, adequate sight distance is available at the site access to ensure safe operation of the intersection along SW Nyberg Lane. No sight distance mitigation is necessary or recommended.

## $\xi$

## Conclusions

The intersection of SW $65^{\text {th }}$ Avenue at SW Borland Road, a Washington County facility, is projected to operate with a $\mathrm{v} / \mathrm{c}$ ratio in excess of 1.00 by year 2019 with or without proposed development site trips. One potential mitigation to reduce the $\mathrm{v} / \mathrm{c}$ ratio includes restriping the northbound approach to include one shared left-turn/through lane and one right-turn lane. Upon implementation of the suggested mitigation, the intersection is projected to operate acceptably per City of Tualatin and Washington County standards.

All other study intersections are currently operating acceptably per their respective jurisdictional standards and are projected to continue operating acceptably upon build-out of the proposed development through year 2019. No operational mitigation is necessary or recommended at these intersections.

The I-5 southbound ramps intersection at SW Nyberg Street has experience a high number of pedestrian and bicycle related crashes between January 2011 and December 2015. According to the City of Tualatin's Transportation System Plan, two safety projects are planned for implementation in the short-term to help improve safety for pedestrians and bicyclists at the intersection. No other significant trends or crash patterns were identified at any of the other study intersection.

Adequate sight distance is available at the site access to ensure safe operation of the intersection along SW Nyberg Lane. No sight distance mitigation is necessary or recommended.

## Appendix



I-5 SB Ramp \& SW Nyberg Rd
Wednesday, August 30, 2017
7:00 AM to 9:00 AM


5-Minute Interval Summary
7:00 AM to 9:00 AM

| $\begin{gathered} \hline \text { Interval } \\ \text { Start } \\ \text { Time } \\ \hline \end{gathered}$ | Northbound I-5 SB Ramp |  |  |  | Southbound I-5 SB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 7:00 AM | 0 | 0 | 0 | 0 | 25 | 1 | 70 | 0 | 0 | 78 | 50 | 0 | 12 | 74 | 0 | 0 | 310 | 0 | 0 | 0 | 0 |
| 7:05 AM | 0 | 0 | 0 | 0 | 21 | 0 | 82 | 0 | 0 | 89 | 56 | 0 | 5 | 67 | 0 | 0 | 320 | 0 | 0 | 0 | 0 |
| 7:10 AM | 0 | 0 | 0 | 0 | 12 | 0 | 48 | 0 | 0 | 107 | 53 | 0 | 8 | 88 | 0 | 0 | 316 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 33 | 0 | 93 | 0 | 0 | 104 | 57 | 0 | 10 | 67 | 0 | 0 | 364 | 0 | 0 | 0 | 0 |
| 7:20 AM | 0 | 0 | 0 | 0 | 20 | 0 | 77 | 0 | 0 | 105 | 51 | 0 | 5 | 92 | 0 | 0 | 350 | 0 | 0 | 0 | 0 |
| 7:25 AM | 0 | 0 | 0 | 0 | 39 | 2 | 85 | 0 | 0 | 119 | 64 | 0 | 6 | 87 | 0 | 0 | 402 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 30 | 0 | 79 | 0 | 0 | 102 | 51 | 0 | 4 | 112 | 0 | 0 | 378 | 0 | 0 | 0 | 0 |
| 7:35 AM | 0 | 0 | 0 | 0 | 41 | 0 | 98 | 0 | 0 | 79 | 48 | 0 | 13 | 94 | 0 | 0 | 373 | 0 | 0 | 0 | 0 |
| 7:40 AM | 0 | 0 | 0 | 0 | 28 | 0 | 53 | 0 | 0 | 140 | 63 | 0 | 9 | 129 | 0 | 0 | 422 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 47 | 0 | 75 | 0 | 0 | 92 | 51 | 0 | 4 | 90 | 0 | 0 | 359 | 0 | 0 | 0 | 0 |
| 7:50 AM | 0 | 0 | 0 | 0 | 54 | 0 | 83 | 0 | 0 | 114 | 47 | 0 | 7 | 74 | 0 | 0 | 379 | 0 | 0 | 0 | 0 |
| 7:55 AM | 0 | 0 | 0 | 0 | 51 | 0 | 83 | 0 | 0 | 88 | 59 | 0 | 4 | 92 | 0 | 0 | 377 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 27 | 0 | 91 | 0 | 0 | 100 | 50 | 0 | 5 | 74 | 0 | 0 | 347 | 0 | 0 | 0 | 0 |
| 8:05 AM | 0 | 0 | 0 | 0 | 38 | 0 | 75 | 0 | 0 | 85 | 65 | 0 | 4 | 99 | 0 | 0 | 366 | 0 | 0 | 0 | 0 |
| 8:10 AM | 0 | 0 | 0 | 0 | 29 | 0 | 79 | 1 | 0 | 87 | 44 | 0 | 6 | 61 | 0 | 0 | 306 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 52 | 0 | 90 | 0 | 0 | 55 | 39 | 0 | 5 | 77 | 0 | 0 | 318 | 0 | 0 | 0 | 0 |
| 8:20 AM | 0 | 0 | 0 | 0 | 37 | 0 | 84 | 0 | 0 | 107 | 54 | 0 | 4 | 79 | 0 | 0 | 365 | 0 | 0 | 0 | 0 |
| 8:25 AM | 0 | 0 | 0 | 0 | 27 | 0 | 55 | 0 | 0 | 102 | 52 | 0 | 13 | 80 | 0 | 0 | 329 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 27 | 1 | 74 | 1 | 0 | 82 | 52 | 0 | 9 | 100 | 0 | 0 | 345 | 0 | 0 | 0 | 0 |
| 8:35 AM | 0 | 0 | 0 | 0 | 36 | 0 | 77 | 0 | 0 | 82 | 49 | 0 | 14 | 85 | 0 | 0 | 343 | 0 | 0 | 0 | 0 |
| 8:40 AM | 0 | 0 | 0 | 0 | 24 | 0 | 82 | 0 | 0 | 88 | 41 | 0 | 5 | 105 | 0 | 0 | 345 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 42 | 1 | 78 | 0 | 0 | 93 | 46 | 0 | 9 | 82 | 0 | 0 | 351 | 0 | 0 | 0 | 0 |
| 8:50 AM | 0 | 0 | 0 | 0 | 35 | 0 | 75 | 0 | 0 | 66 | 68 | 0 | 4 | 96 | 0 | 0 | 344 | 0 | 0 | 0 | 0 |
| 8:55 AM | 0 | 0 | 0 | 0 | 31 | 0 | 90 | 0 | 0 | 92 | 54 | 0 | 7 | 100 | 0 | 0 | 374 | 0 | 0 | 0 | 0 |
| Total Survey | 0 | 0 | 0 | 0 | 806 | 5 | 1,876 | 2 | 0 | 2,256 | 1,264 | 0 | 172 | 2,104 | 0 | 0 | 8,483 | 0 | 0 | 0 | 0 |

15-Minute Interval Summary
7:00 AM to 9:00 AM

| Interval Start Time | Northbound I-5 SB Ramp |  |  |  | Southbound I-5 SB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 7:00 AM | 0 | 0 | 0 | 0 | 58 | 1 | 200 | 0 | 0 | 274 | 159 | 0 | 25 | 229 | 0 | 0 | 946 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 92 | 2 | 255 | 0 | 0 | 328 | 172 | 0 | 21 | 246 | 0 | 0 | 1,116 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 99 | 0 | 230 | 0 | 0 | 321 | 162 | 0 | 26 | 335 | 0 | 0 | 1,173 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 152 | 0 | 241 | 0 | 0 | 294 | 157 | 0 | 15 | 256 | 0 | 0 | 1,115 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 94 | 0 | 245 | 1 | 0 | 272 | 159 | 0 | 15 | 234 | 0 | 0 | 1,019 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 116 | 0 | 229 | 0 | 0 | 264 | 145 | 0 | 22 | 236 | 0 | 0 | 1,012 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 87 | 1 | 233 | 1 | 0 | 252 | 142 | 0 | 28 | 290 | 0 | 0 | 1,033 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 108 | 1 | 243 | 0 | 0 | 251 | 168 | 0 | 20 | 278 | 0 | 0 | 1,069 | 0 | 0 | 0 | 0 |
| Total Survey | 0 | 0 | 0 | 0 | 806 | 5 | 1,876 | 2 | 0 | 2,256 | 1,264 | 0 | 172 | 2,104 | 0 | 0 | 8,483 | 0 | 0 | 0 | 0 |

Peak Hour Summary
7:10 AM to 8:10 AM

| By <br> Approach | Northbound I-5 SB Ramp |  |  |  | Southbound I-5 SB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | Bikes | In | Out | Total | Bikes | In | Out | Total | Bikes | In | Out | Total | Bikes |  | North | South | East | West |
| Volume | 0 | 740 | 740 | 0 | 1,362 | 0 | 1,362 | 0 | 1,894 | 2,038 | 3,932 | 0 | 1,177 | 1,655 | 2,832 | 0 | 4,433 | 0 | 0 | 0 | 0 |
| \%HV | 0.0\% |  |  |  | 3.7\% |  |  |  | 10.4\% |  |  |  | 5.9\% |  |  |  | 7.2\% |  |  |  |  |
| PHF | 0.00 |  |  |  | 0.87 |  |  |  | 0.93 |  |  |  | 0.82 |  |  |  | 0.94 |  |  |  |  |
| $\qquad$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Northbound I-5 SB Ramp |  |  |  | Southbound I-5 SB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Total |  |  |  |  |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |  |  |  |  |
| Volume | 0 | 0 | 0 | 0 | 420 | 2 | 940 | 1,362 | 0 | 1,235 | 659 | 1,894 | 79 | 1,098 | 0 | 1,177 | 4,433 |  |  |  |  |
| \%HV | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 4.8\% | 3.7\% | 0.0\% | 8.3\% | 14.3\% | 10.4\% | 0.0\% | 6.4\% | 0.0\% | 5.9\% | 7.2\% |  |  |  |  |
| PHF | 0.00 | 0.00 | 0.00 | 0.00 | 0.69 | 0.25 | 0.90 | 0.87 | 0.00 | 0.89 | 0.95 | 0.93 | 0.76 | 0.82 | 0.00 | 0.82 | 0.94 |  |  |  |  |

Rolling Hour Summary
7:00 AM to 9:00 AM

| $\begin{gathered} \hline \text { Interval } \\ \text { Start } \\ \text { Time } \end{gathered}$ | Northbound I-5 SB Ramp |  |  |  | Southbound I-5 SB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 7:00 AM | 0 | 0 | 0 | 0 | 401 | 3 | 926 | 0 | 0 | 1,217 | 650 | 0 | 87 | 1,066 | 0 | 0 | 4,350 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 437 | 2 | 971 | 1 | 0 | 1,215 | 650 | 0 | 77 | 1,071 | 0 | 0 | 4,423 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 461 | 0 | 945 | 1 | 0 | 1,151 | 623 | 0 | 78 | 1,061 | 0 | 0 | 4,319 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 449 | 1 | 948 | 2 | 0 | 1,082 | 603 | 0 | 80 | 1,016 | 0 | 0 | 4,179 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 405 | 2 | 950 | 2 | 0 | 1,039 | 614 | 0 | 85 | 1,038 | 0 | 0 | 4,133 | 0 | 0 | 0 | 0 |

Heavy Vehicle Summary

Out 115
In 197


Heavy Vehicle 5-Minute Interval Summary
7:00 AM to 9:00 AM

| Interval Start Time | Northbound I-5 SB Ramp |  |  |  | Southbound I-5 SB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 5 | 3 | 8 | 0 | 3 | 0 | 3 | 14 |
| 7:05 AM | 0 | 0 | 0 | 0 | 1 | 0 | 6 | 7 | 0 | 3 | 6 | 9 | 0 | 4 | 0 | 4 | 20 |
| 7:10 AM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 11 | 8 | 19 | 0 | 8 | 0 | 8 | 30 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 9 | 5 | 14 | 0 | 3 | 0 | 3 | 21 |
| 7:20 AM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 15 | 7 | 22 | 0 | 2 | 0 | 2 | 26 |
| 7:25 AM | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 | 0 | 7 | 8 | 15 | 0 | 5 | 0 | 5 | 29 |
| 7:30 AM | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 4 | 0 | 10 | 5 | 15 | 0 | 7 | 0 | 7 | 26 |
| 7:35 AM | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 3 | 7 | 10 | 0 | 3 | 0 | 3 | 17 |
| 7:40 AM | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 4 | 0 | 7 | 8 | 15 | 0 | 7 | 0 | 7 | 26 |
| 7:45 AM | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 4 | 0 | 12 | 7 | 19 | 0 | 8 | 0 | 8 | 31 |
| 7:50 AM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 10 | 6 | 16 | 0 | 7 | 0 | 7 | 26 |
| 7:55 AM | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 4 | 0 | 5 | 8 | 13 | 0 | 5 | 0 | 5 | 22 |
| 8:00 AM | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 5 | 0 | 8 | 7 | 15 | 0 | 5 | 0 | 5 | 25 |
| 8:05 AM | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 0 | 6 | 18 | 24 | 0 | 10 | 0 | 10 | 39 |
| 8:10 AM | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 | 0 | 3 | 14 | 17 | 0 | 3 | 0 | 3 | 27 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 0 | 5 | 6 | 11 | 1 | 4 | 0 | 5 | 24 |
| 8:20 AM | 0 | 0 | 0 | 0 | 4 | 0 | 6 | 10 | 0 | 9 | 8 | 17 | 2 | 8 | 0 | 10 | 37 |
| 8:25 AM | 0 | 0 | 0 | 0 | 1 | 0 | 6 | 7 | 0 | 6 | 6 | 12 | 0 | 6 | 0 | 6 | 25 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 | 0 | 9 | 3 | 12 | 0 | 7 | 0 | 7 | 26 |
| 8:35 AM | 0 | 0 | 0 | 0 | 1 | 0 | 5 | 6 | 0 | 5 | 9 | 14 | 1 | 5 | 0 | 6 | 26 |
| 8:40 AM | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 | 0 | 7 | 7 | 14 | 0 | 6 | 0 | 6 | 27 |
| 8:45 AM | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 4 | 0 | 6 | 11 | 17 | 0 | 3 | 0 | 3 | 24 |
| 8:50 AM | 0 | 0 | 0 | 0 | 1 | 0 | 7 | 8 | 0 | 12 | 14 | 26 | 0 | 11 | 0 | 11 | 45 |
| 8:55 AM | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 0 | 9 | 10 | 19 | 1 | 14 | 0 | 15 | 39 |
| Total Survey | 0 | 0 | 0 | 0 | 15 | 0 | 115 | 130 | 0 | 182 | 191 | 373 | 5 | 144 | 0 | 149 | 652 |

Heavy Vehicle 15-Minute Interval Summary
7:00 AM to 9:00 AM

| Interval <br> Start <br> Time | Northbound I-5 SB Ramp |  |  |  | Southbound I-5 SB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 7:00 AM | 0 | 0 | 0 | 0 | 1 | 0 | 12 | 13 | 0 | 19 | 17 | 36 | 0 | 15 | 0 | 15 | 64 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 15 | 0 | 31 | 20 | 51 | 0 | 10 | 0 | 10 | 76 |
| 7:30 AM | 0 | 0 | 0 | 0 | 2 | 0 | 10 | 12 | 0 | 20 | 20 | 40 | 0 | 17 | 0 | 17 | 69 |
| 7:45 AM | 0 | 0 | 0 | 0 | 2 | 0 | 9 | 11 | 0 | 27 | 21 | 48 | 0 | 20 | 0 | 20 | 79 |
| 8:00 AM | 0 | 0 | 0 | 0 | 2 | 0 | 15 | 17 | 0 | 17 | 39 | 56 | 0 | 18 | 0 | 18 | 91 |
| 8:15 AM | 0 | 0 | 0 | 0 | 5 | 0 | 20 | 25 | 0 | 20 | 20 | 40 | 3 | 18 | 0 | 21 | 86 |
| 8:30 AM | 0 | 0 | 0 | 0 | 1 | 0 | 19 | 20 | 0 | 21 | 19 | 40 | 1 | 18 | 0 | 19 | 79 |
| 8:45 AM | 0 | 0 | 0 | 0 | 2 | 0 | 15 | 17 | 0 | 27 | 35 | 62 | 1 | 28 | 0 | 29 | 108 |
| Total Survey | 0 | 0 | 0 | 0 | 15 | 0 | 115 | 130 | 0 | 182 | 191 | 373 | 5 | 144 | 0 | 149 | 652 |

Heavy Vehicle Peak Hour Summary
7:10 AM to 8:10 AM

| By <br> Approach | Northbound I-5 SB Ramp |  |  | Southbound I-5 SB Ramp |  |  | Eastbound SW Nyberg Rd |  |  | Westbound SW Nyberg Rd |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | In | Out | Total | In | Out | Total | In | Out | Total |  |
| Volume | 0 | 94 | 94 | 51 | 0 | 51 | 197 | 115 | 312 | 70 | 109 | 179 | 318 |
| PHF | 0.00 |  |  | 0.75 |  |  | 0.90 |  |  | 0.80 |  |  | 0.92 |


| By <br> Movement | Northbound I-5 SB Ramp |  |  |  | Southbound I-5 SB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| Volume | 0 | 0 | 0 | 0 | 6 | 0 | 45 | 51 | 0 | 103 | 94 | 197 | 0 | 70 | 0 | 70 | 318 |
| PHF | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 0.00 | 0.70 | 0.75 | 0.00 | 0.74 | 0.71 | 0.90 | 0.00 | 0.80 | 0.00 | 0.80 | 0.92 |

Heavy Vehicle Rolling Hour Summary
7:00 AM to 9:00 AM

| Interval Start Time | Northbound I-5 SB Ramp |  |  |  | Southbound I-5 SB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 7:00 AM | 0 | 0 | 0 | 0 | 5 | 0 | 46 | 51 | 0 | 97 | 78 | 175 | 0 | 62 | 0 | 62 | 288 |
| 7:15 AM | 0 | 0 | 0 | 0 | 6 | 0 | 49 | 55 | 0 | 95 | 100 | 195 | 0 | 65 | 0 | 65 | 315 |
| 7:30 AM | 0 | 0 | 0 | 0 | 11 | 0 | 54 | 65 | 0 | 84 | 100 | 184 | 3 | 73 | 0 | 76 | 325 |
| 7:45 AM | 0 | 0 | 0 | 0 | 10 | 0 | 63 | 73 | 0 | 85 | 99 | 184 | 4 | 74 | 0 | 78 | 335 |
| 8:00 AM | 0 | 0 | 0 | 0 | 10 | 0 | 69 | 79 | 0 | 85 | 113 | 198 | 5 | 82 | 0 | 87 | 364 |



# I-5 SB Ramp \& SW Nyberg Rd <br> Tuesday, August 29, 2017 <br> 4:00 PM to 6:00 PM 



5-Minute Interval Summary
4:00 PM to 6:00 PM

| $\begin{gathered} \text { Interval } \\ \text { Start } \\ \text { Time } \end{gathered}$ | Northbound I-5 SB Ramp |  |  |  | Southbound I-5 SB Ramp |  |  |  | EastboundSW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 4:00 PM | 0 | 0 | 0 | 0 | 54 | 2 | 59 | 0 | 0 | 115 | 61 | 0 | 7 | 97 | 0 | 0 | 395 | 0 | 0 | 0 | 0 |
| 4:05 PM | 0 | 0 | 0 | 0 | 53 | 3 | 91 | 0 | 0 | 122 | 64 | 0 | 8 | 79 | 0 | 0 | 420 | 0 | 0 | 0 | 0 |
| 4:10 PM | 0 | 0 | 0 | 0 | 66 | 3 | 77 | 0 | 0 | 94 | 76 | 0 | 10 | 66 | 0 | 0 | 392 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 53 | 3 | 72 | 0 | 0 | 125 | 78 | 0 | 6 | 88 | 0 | 0 | 425 | 0 | 0 | 0 | 0 |
| 4:20 PM | 0 | 0 | 0 | 0 | 63 | 2 | 82 | 0 | 0 | 120 | 69 | 0 | 7 | 82 | 0 | 0 | 425 | 0 | 0 | 0 | 0 |
| 4:25 PM | 0 | 0 | 0 | 0 | 79 | 1 | 88 | 0 | 0 | 121 | 68 | 0 | 6 | 85 | 0 | 0 | 448 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 68 | 2 | 87 | 0 | 0 | 91 | 61 | 0 | 6 | 94 | 0 | 0 | 409 | 0 | 0 | 0 | 0 |
| 4:35 PM | 0 | 0 | 0 | 0 | 50 | 2 | 79 | 0 | 0 | 119 | 73 | 0 | 4 | 103 | 0 | 0 | 430 | 1 | 0 | 0 | 0 |
| 4:40 PM | 0 | 0 | 0 | 0 | 86 | 5 | 87 | 0 | 0 | 106 | 74 | 0 | 7 | 87 | 0 | 0 | 452 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 76 | 0 | 102 | 0 | 0 | 101 | 73 | 0 | 10 | 73 | 0 | 0 | 435 | 2 | 0 | 0 | 0 |
| 4:50 PM | 0 | 0 | 0 | 0 | 58 | 4 | 70 | 0 | 0 | 113 | 67 | 0 | 3 | 101 | 0 | 0 | 416 | 5 | 0 | 0 | 0 |
| 4:55 PM | 0 | 0 | 0 | 0 | 86 | 1 | 111 | 0 | 0 | 93 | 47 | 0 | 8 | 83 | 0 | 0 | 429 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 55 | 0 | 93 | 0 | 0 | 122 | 56 | 0 | 9 | 100 | 0 | 0 | 435 | 0 | 0 | 0 | 0 |
| 5:05 PM | 0 | 0 | 0 | 0 | 63 | 0 | 101 | 0 | 0 | 106 | 72 | 0 | 5 | 97 | 0 | 0 | 444 | 0 | 0 | 0 | 0 |
| 5:10 PM | 0 | 0 | 0 | 0 | 74 | 0 | 119 | 0 | 0 | 119 | 66 | 0 | 8 | 89 | 0 | 0 | 475 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 74 | 0 | 98 | 0 | 0 | 111 | 51 | 0 | 5 | 94 | 0 | 0 | 433 | 0 | 0 | 0 | 0 |
| 5:20 PM | 0 | 0 | 0 | 0 | 67 | 0 | 121 | 0 | 0 | 125 | 67 | 0 | 6 | 91 | 0 | 0 | 477 | 0 | 0 | 0 | 0 |
| 5:25 PM | 0 | 0 | 0 | 0 | 81 | 0 | 112 | 0 | 0 | 133 | 55 | 0 | 7 | 94 | 0 | 0 | 482 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 86 | 0 | 131 | 0 | 0 | 106 | 48 | 0 | 6 | 80 | 0 | 0 | 457 | 0 | 0 | 0 | 0 |
| 5:35 PM | 0 | 0 | 0 | 0 | 72 | 0 | 103 | 0 | 0 | 133 | 49 | 0 | 10 | 96 | 0 | 0 | 463 | 0 | 0 | 0 | 0 |
| 5:40 PM | 0 | 0 | 0 | 0 | 53 | 0 | 92 | 0 | 0 | 110 | 49 | 0 | 3 | 116 | 0 | 0 | 423 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 67 | 0 | 114 | 0 | 0 | 82 | 49 | 0 | 9 | 62 | 0 | 0 | 383 | 0 | 0 | 0 | 0 |
| 5:50 PM | 0 | 0 | 0 | 0 | 62 | 0 | 101 | 0 | 0 | 121 | 71 | 0 | 6 | 116 | 0 | 0 | 477 | 0 | 0 | 0 | 0 |
| 5:55 PM | 0 | 0 | 0 | 0 | 66 | 0 | 113 | 0 | 0 | 76 | 43 | 0 | 6 | 81 | 0 | 0 | 385 | 0 | 0 | 0 | 0 |
| Total Survey | 0 | 0 | 0 | 0 | 1,612 | 28 | 2,303 | 0 | 0 | 2,664 | 1,487 | 0 | 162 | 2,154 | 0 | 0 | 10,410 | 8 | 0 | 0 | 0 |

15-Minute Interval Summary
4:00 PM to 6:00 PM

| Interval Start Time | Northbound I-5 SB Ramp |  |  |  | Southbound I-5 SB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 4:00 PM | 0 | 0 | 0 | 0 | 173 | 8 | 227 | 0 | 0 | 331 | 201 | 0 | 25 | 242 | 0 | 0 | 1,207 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 195 | 6 | 242 | 0 | 0 | 366 | 215 | 0 | 19 | 255 | 0 | 0 | 1,298 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 204 | 9 | 253 | 0 | 0 | 316 | 208 | 0 | 17 | 284 | 0 | 0 | 1,291 | 1 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 220 | 5 | 283 | 0 | 0 | 307 | 187 | 0 | 21 | 257 | 0 | 0 | 1,280 | 7 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 192 | 0 | 313 | 0 | 0 | 347 | 194 | 0 | 22 | 286 | 0 | 0 | 1,354 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 222 | 0 | 331 | 0 | 0 | 369 | 173 | 0 | 18 | 279 | 0 | 0 | 1,392 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 211 | 0 | 326 | 0 | 0 | 349 | 146 | 0 | 19 | 292 | 0 | 0 | 1,343 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 195 | 0 | 328 | 0 | 0 | 279 | 163 | 0 | 21 | 259 | 0 | 0 | 1,245 | 0 | 0 | 0 | 0 |
| Total Survey | 0 | 0 | 0 | 0 | 1,612 | 28 | 2,303 | 0 | 0 | 2,664 | 1,487 | 0 | 162 | 2,154 | 0 | 0 | 10,410 | 8 | 0 | 0 | 0 |

Peak Hour Summary
4:40 PM to 5:40 PM

| By <br> Approach | Northbound I-5 SB Ramp |  |  |  | Southbound I-5 SB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | Bikes | In | Out | Total | Bikes | In | Out | Total | Bikes | In | Out | Total | Bikes |  | North | South | East | West |
| Volume | 0 | 819 | 819 | 0 | 2,136 | 0 | 2,136 | 0 | 2,093 | 2,333 | 4,426 | 0 | 1,169 | 2,246 | 3,415 | 0 | 5,398 | 7 | 0 | 0 | 0 |
| \%HV | 0.0\% |  |  |  | 2.0\% |  |  |  | 2.3\% |  |  |  | 3.6\% |  |  |  | 2.4\% |  |  |  |  |
| PHF | 0.00 |  |  |  | 0.89 |  |  |  | 0.97 |  |  |  | 0.95 |  |  |  | 0.95 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| By | Northbound I-5 SB Ramp |  |  |  | Southbound I-5 SB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Total |  |  |  |  |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |  |  |  |  |
| Volume | 0 | 0 | 0 | 0 | 878 | 10 | 1,248 | 2,136 | 0 | 1,368 | 725 | 2,093 | 84 | 1,085 | 0 | 1,169 | 5,398 |  |  |  |  |
| \%HV | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 2.7\% | 2.0\% | 0.0\% | 2.3\% | 2.3\% | 2.3\% | 0.0\% | 3.9\% | 0.0\% | 3.6\% | 2.4\% |  |  |  |  |
| PHF | 0.00 | 0.00 | 0.00 | 0.00 | 0.92 | 0.28 | 0.86 | 0.89 | 0.00 | 0.92 | 0.85 | 0.97 | 0.91 | 0.95 | 0.00 | 0.95 | 0.95 |  |  |  |  |

Rolling Hour Summary
4:00 PM to 6:00 PM

| $\begin{gathered} \hline \text { Interval } \\ \text { Start } \\ \text { Time } \\ \hline \end{gathered}$ | Northbound I-5 SB Ramp |  |  |  | Southbound I-5 SB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 4:00 PM | 0 | 0 | 0 | 0 | 792 | 28 | 1,005 | 0 | 0 | 1,320 | 811 | 0 | 82 | 1,038 | 0 | 0 | 5,076 | 8 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 811 | 20 | 1,091 | 0 | 0 | 1,336 | 804 | 0 | 79 | 1,082 | 0 | 0 | 5,223 | 8 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 838 | 14 | 1,180 | 0 | 0 | 1,339 | 762 | 0 | 78 | 1,106 | 0 | 0 | 5,317 | 8 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 845 | 5 | 1,253 | 0 | 0 | 1,372 | 700 | 0 | 80 | 1,114 | 0 | 0 | 5,369 | 7 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 820 | 0 | 1,298 | 0 | - | 1,344 | 676 | 0 | 80 | 1,116 |  | 0 | 5,334 | 0 | 0 | 0 | 0 |

Out 76


Heavy Vehicle 5-Minute Interval Summary
4:00 PM to 6:00 PM

| Interval Start Time | Northbound I-5 SB Ramp |  |  |  | Southbound I-5 SB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 4:00 PM | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 2 | 1 | 3 | 1 | 7 | 0 | 8 | 13 |
| 4:05 PM | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 4 | 0 | 6 | 1 | 7 | 0 | 2 | 0 | 2 | 13 |
| 4:10 PM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 2 | 3 | 5 | 0 | 0 | 0 | 0 | 7 |
| 4:15 PM | 0 | 0 | 0 | 0 | 4 | 0 | 3 | 7 | 0 | 4 | 1 | 5 | 0 | 7 | 0 | 7 | 19 |
| 4:20 PM | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 4 | 0 | 4 | 5 | 9 | 0 | 5 | 0 | 5 | 18 |
| 4:25 PM | 0 | 0 | 0 | 0 | 1 | 0 | 4 | 5 | 0 | 4 | 4 | 8 | 0 | 8 | 0 | 8 | 21 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 2 | 5 | 7 | 0 | 4 | 0 | 4 | 14 |
| 4:35 PM | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 0 | 4 | 4 | 8 | 0 | 6 | 0 | 6 | 19 |
| 4:40 PM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 4 | 4 | 8 | 0 | 2 | 0 | 2 | 13 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 0 | 3 | 1 | 4 | 0 | 4 | 0 | 4 | 13 |
| 4:50 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 10 | 0 | 10 | 13 |
| 4:55 PM | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 3 | 1 | 4 | 0 | 3 | 0 | 3 | 9 |
| 5:00 PM | 0 | 0 | 0 | 0 | 1 | 0 | 4 | 5 | 0 | 2 | 2 | 4 | 0 | 4 | 0 | 4 | 13 |
| 5:05 PM | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 0 | 4 | 2 | 6 | 0 | 4 | 0 | 4 | 13 |
| 5:10 PM | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 0 | 4 | 2 | 6 | 0 | 2 | 0 | 2 | 11 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 1 | 0 | 1 | 0 | 3 | 0 | 3 | 8 |
| 5:20 PM | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 3 | 2 | 5 | 0 | 2 | 0 | 2 | 9 |
| 5:25 PM | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 5 | 0 | 2 | 1 | 3 | 0 | 3 | 0 | 3 | 11 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 0 | 1 | 1 | 2 | 0 | 2 | 0 | 2 | 9 |
| 5:35 PM | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 4 | 0 | 2 | 1 | 3 | 0 | 3 | 0 | 3 | 10 |
| 5:40 PM | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 3 | 1 | 4 | 0 | 2 | 0 | 2 | 8 |
| 5:45 PM | 0 | 0 | 0 | 0 | 1 | 0 | 5 | 6 | 0 | 1 | 3 | 4 | 0 | 1 | 0 | 1 | 11 |
| 5:50 PM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 5 |
| 5:55 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 8 | 1 | 2 | 0 | 3 | 11 |
| Total Survey | 0 | 0 | 0 | 0 | 19 | 0 | 65 | 84 | 0 | 66 | 51 | 117 | 2 | 88 | 0 | 90 | 291 |

Heavy Vehicle 15-Minute Interval Summary 4:00 PM to 6:00 PM

| Interval Start Time | Northbound I-5 SB Ramp |  |  |  | Southbound I-5 SB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 4:00 PM | 0 | 0 | 0 | 0 | 2 | 0 | 6 | 8 | 0 | 10 | 5 | 15 | 1 | 9 | 0 | 10 | 33 |
| 4:15 PM | 0 | 0 | 0 | 0 | 7 | 0 | 9 | 16 | 0 | 12 | 10 | 22 | 0 | 20 | 0 | 20 | 58 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 11 | 0 | 10 | 13 | 23 | 0 | 12 | 0 | 12 | 46 |
| 4:45 PM | 0 | 0 | 0 | 0 | 1 | 0 | 7 | 8 | 0 | 8 | 2 | 10 | 0 | 17 | 0 | 17 | 35 |
| 5:00 PM | 0 | 0 | 0 | 0 | 3 | 0 | 8 | 11 | 0 | 10 | 6 | 16 | 0 | 10 | 0 | 10 | 37 |
| 5:15 PM | 0 | 0 | 0 | 0 | 3 | 0 | 8 | 11 | 0 | 6 | 3 | 9 | 0 | 8 | 0 | 8 | 28 |
| 5:30 PM | 0 | 0 | 0 | 0 | 2 | 0 | 9 | 11 | 0 | 6 | 3 | 9 | 0 | 7 | 0 | 7 | 27 |
| 5:45 PM | 0 | 0 | 0 | 0 | 1 | 0 | 7 | 8 | 0 | 4 | 9 | 13 | 1 | 5 | 0 | 6 | 27 |
| Total Survey | 0 | 0 | 0 | 0 | 19 | 0 | 65 | 84 | 0 | 66 | 51 | 117 | 2 | 88 | 0 | 90 | 291 |

Heavy Vehicle Peak Hour Summary
4:40 PM to 5:40 PM

| By <br> Approach | Northbound I-5 SB Ramp |  |  | Southbound I-5 SB Ramp |  |  | Eastbound SW Nyberg Rd |  |  | Westbound SW Nyberg Rd |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | In | Out | Total | In | Out | Total | In | Out | Total |  |
| Volume | 0 | 17 | 17 | 42 | 0 | 42 | 48 | 76 | 124 | 42 | 39 | 81 | 132 |
| PHF | 0.00 |  |  | 0.75 |  |  | 0.75 |  |  | 0.62 |  |  | 0.85 |


| By <br> Movement | Northbound I-5 SB Ramp |  |  |  | Southbound I-5 SB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| Volume | 0 | 0 | 0 | 0 | 8 | 0 | 34 | 42 | 0 | 31 | 17 | 48 | 0 | 42 | 0 | 42 | 132 |
| PHF | 0.00 | 0.00 | 0.00 | 0.00 | 0.67 | 0.00 | 0.77 | 0.75 | 0.00 | 0.78 | 0.71 | 0.75 | 0.00 | 0.62 | 0.00 | 0.62 | 0.85 |

Heavy Vehicle Rolling Hour Summary
4:00 PM to 6:00 PM

| Interval Start Time | Northbound I-5 SB Ramp |  |  |  | Southbound I-5 SB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 4:00 PM | 0 | 0 | 0 | 0 | 10 | 0 | 33 | 43 | 0 | 40 | 30 | 70 | 1 | 58 | 0 | 59 | 172 |
| 4:15 PM | 0 | 0 | 0 | 0 | 11 | 0 | 35 | 46 | 0 | 40 | 31 | 71 | 0 | 59 | 0 | 59 | 176 |
| 4:30 PM | 0 | 0 | 0 | 0 | 7 | 0 | 34 | 41 | 0 | 34 | 24 | 58 | 0 | 47 | 0 | 47 | 146 |
| 4:45 PM | 0 | 0 | 0 | 0 | 9 | 0 | 32 | 41 | 0 | 30 | 14 | 44 | 0 | 42 | 0 | 42 | 127 |
| 5:00 PM | 0 | 0 | 0 | 0 | 9 | 0 | 32 | 41 | 0 | 26 | 21 | 47 | 1 | 30 | 0 | 31 | 119 |



## Total Vehicle Summary <br> All Traffic Data <br> Clay Carney <br> (503) 833-2740



5-Minute Interval Summary
7:00 AM to 9:00 AM

| IntervalStart Time | Northbound I-5 NB Ramp |  |  |  | Southbound I-5 NB Ramp |  |  |  | EastboundSW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 7:00 AM | 54 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 71 | 0 | 0 | 26 | 54 | 0 | 249 | 0 | 0 | 0 | 0 |
| 7:05 AM | 60 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 65 | 0 | 0 | 21 | 66 | 0 | 253 | 0 | 0 | 0 | 0 |
| 7:10 AM | 44 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 75 | 0 | 0 | 43 | 68 | 0 | 269 | 0 | 0 | 0 | 0 |
| 7:15 AM | 70 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 47 | 92 | 0 | 0 | 27 | 73 | 1 | 316 | 0 | 0 | 0 | 0 |
| 7:20 AM | 52 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 48 | 108 | 0 | 0 | 34 | 76 | 0 | 323 | 0 | 0 | 0 | 0 |
| 7:25 AM | 81 | 1 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 101 | 0 | 0 | 24 | 58 | 0 | 323 | 0 | 0 | 0 | 0 |
| 7:30 AM | 69 | 2 | 13 | 0 | 0 | 0 | 0 | 0 | 1 | 63 | 80 | 0 | 0 | 32 | 59 | 0 | 319 | 0 | 0 | 1 | 0 |
| 7:35 AM | 95 | 1 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 97 | 0 | 0 | 36 | 61 | 0 | 341 | 0 | 0 | 0 | 0 |
| 7:40 AM | 78 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 72 | 88 | 0 | 0 | 45 | 71 | 0 | 361 | 0 | 0 | 0 | 0 |
| 7:45 AM | 89 | 1 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 57 | 79 | 0 | 0 | 49 | 73 | 0 | 361 | 0 | 0 | 0 | 0 |
| 7:50 AM | 64 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 73 | 77 | 0 | 0 | 27 | 57 | 0 | 320 | 0 | 0 | 0 | 0 |
| 7:55 AM | 46 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 82 | 76 | 0 | 0 | 41 | 83 | 0 | 338 | 0 | 0 | 0 | 0 |
| 8:00 AM | 66 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 46 | 75 | 0 | 0 | 26 | 58 | 0 | 281 | 0 | 0 | 0 | 0 |
| 8:05 AM | 52 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 60 | 88 | 0 | 0 | 33 | 43 | 0 | 290 | 1 | 0 | 0 | 0 |
| 8:10 AM | 53 | 3 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 51 | 66 | 0 | 0 | 26 | 45 | 0 | 261 | 0 | 0 | 0 | 0 |
| 8:15 AM | 52 | 3 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 46 | 63 | 0 | 0 | 34 | 62 | 0 | 277 | 0 | 0 | 0 | 0 |
| 8:20 AM | 38 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 66 | 96 | 0 | 0 | 27 | 53 | 0 | 288 | 0 | 0 | 0 | 0 |
| 8:25 AM | 76 | 8 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 46 | 71 | 0 | 0 | 28 | 41 | 0 | 284 | 0 | 0 | 0 | 0 |
| 8:30 AM | 56 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 65 | 71 | 1 | 0 | 46 | 44 | 0 | 292 | 0 | 0 | 0 | 0 |
| 8:35 AM | 61 | 4 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 45 | 65 | 0 | 0 | 33 | 58 | 0 | 276 | 0 | 0 | 0 | 0 |
| 8:40 AM | 74 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 69 | 0 | 0 | 36 | 62 | 0 | 301 | 0 | 0 | 0 | 0 |
| 8:45 AM | 62 | 5 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 52 | 80 | 0 | 0 | 28 | 47 | 0 | 285 | 0 | 0 | 0 | 0 |
| 8:50 AM | 55 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 52 | 89 | 0 | 0 | 36 | 53 | 0 | 297 | 0 | 0 | 0 | 0 |
| 8:55 AM | 94 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 37 | 76 | 0 | 0 | 25 | 43 | 0 | 293 | 0 | 0 | 0 | 0 |
| Total Survey | 1,541 | 45 | 280 | 0 | 0 | 0 | 0 | 0 | 2 | 1,221 | 1,918 | 1 | 0 | 783 | 1,408 | 1 | 7,198 | 1 | 0 | 1 | 0 |

15-Minute Interval Summary
7:00 AM to 9:00 AM

| Interval Start Time | Northbound I-5 NB Ramp |  |  |  | Southbound I-5 NB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 7:00 AM | 158 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 90 | 211 | 0 | 0 | 90 | 188 | 0 | 771 | 0 | 0 | 0 | 0 |
| 7:15 AM | 203 | 1 | 25 | 0 | 0 | 0 | 0 | 0 | 1 | 139 | 301 | 0 | 0 | 85 | 207 | 1 | 962 | 0 | 0 | 0 | 0 |
| 7:30 AM | 242 | 3 | 36 | 0 | 0 | 0 | 0 | 0 | 1 | 170 | 265 | 0 | 0 | 113 | 191 | 0 | 1,021 | 0 | 0 | 1 | 0 |
| 7:45 AM | 199 | 1 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 212 | 232 | 0 | 0 | 117 | 213 | 0 | 1,019 | 0 | 0 | 0 | 0 |
| 8:00 AM | 171 | 3 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 157 | 229 | 0 | 0 | 85 | 146 | 0 | 832 | 1 | 0 | 0 | 0 |
| 8:15 AM | 166 | 15 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 158 | 230 | 0 | 0 | 89 | 156 | 0 | 849 | 0 | 0 | 0 | 0 |
| 8:30 AM | 191 | 17 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 154 | 205 | 1 | 0 | 115 | 164 | 0 | 869 | 0 | 0 | 0 | 0 |
| 8:45 AM | 211 | 5 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 141 | 245 | 0 | 0 | 89 | 143 | 0 | 875 | 0 | 0 | 0 | 0 |
| Total Survey | 1,541 | 45 | 280 | 0 | 0 | 0 | 0 | 0 | 2 | 1,221 | 1,918 | 1 | 0 | 783 | 1,408 | 1 | 7,198 | 1 | 0 | 1 | 0 |

Peak Hour Summary
7:10 AM to 8:10 AM

| By <br> Approach | Northbound I-5 NB Ramp |  |  |  | Southbound I-5 NB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | Bikes | In | Out | Total | Bikes | In | Out | Total | Bikes | In | Out | Total | Bikes |  | North | South | East | West |
| Volume | 951 | 1,036 | 1,987 | 0 | 0 | 787 | 787 | 0 | 1,694 | 1,223 | 2,917 | 0 | 1,197 | 796 | 1,993 | 1 | 3,842 | 1 | 0 | 1 | 0 |
| \%HV | 6.0\% |  |  |  | 0.0\% |  |  |  | 6.1\% |  |  |  | 2.2\% |  |  |  | 4.9\% |  |  |  |  |
| PHF | 0.79 |  |  |  | 0.00 |  |  |  | 0.95 |  |  |  | 0.89 |  |  |  | 0.90 |  |  |  |  |
| By <br> Movement | Northbound I-5 NB Ramp |  |  |  | Southbound I-5 NB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Total |  |  |  |  |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |  |  |  |  |
| Volume | 806 | 5 | 140 | 951 | 0 | 0 | 0 | 0 | 2 | 656 | 1,036 | 1,694 | 0 | 417 | 780 | 1,197 | 3,842 |  |  |  |  |
| \%HV | 6.9\% | 0.0\% | 0.7\% | 6.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.8\% | 8.9\% | 6.1\% | 0.0\% | 3.4\% | 1.5\% | 2.2\% | 4.9\% |  |  |  |  |
| PHF | 0.77 | 0.31 | 0.78 | 0.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 0.77 | 0.86 | 0.95 | 0.00 | 0.80 | 0.90 | 0.89 | 0.90 |  |  |  |  |

Rolling Hour Summary
7:00 AM to 9:00 AM

| Interva Start Time | Northbound I-5 NB Ramp |  |  |  | Southbound I-5 NB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 7:00 AM | 802 | 5 | 140 | 0 | 0 | 0 | 0 | 0 | 2 | 611 | 1,009 | 0 | 0 | 405 | 799 | 1 | 3,773 | 0 | 0 | 1 | 0 |
| 7:15 AM | 815 | 8 | 147 | 0 | 0 | 0 | 0 | 0 | 2 | 678 | 1,027 | 0 | 0 | 400 | 757 | 1 | 3,834 | 1 | 0 | 1 | 0 |
| 7:30 AM | 778 | 22 | 157 | 0 | 0 | 0 | 0 | 0 | 1 | 697 | 956 | 0 | 0 | 404 | 706 | 0 | 3,721 | , | 0 | 1 | 0 |
| 7:45 AM | 727 | 36 | 144 | 0 | 0 | 0 | 0 | 0 | 0 | 681 | 896 | 1 | 0 | 406 | 679 | 0 | 3,569 | 1 | 0 | 0 | 0 |
| 8:00 AM | 739 | 40 | 140 | 0 | 0 | 0 | 0 | 0 | 0 | 610 | 909 | 1 | 0 | 378 | 609 | 0 | 3,425 | 1 | 0 | 0 | 0 |

Heavy Vehicle Summary

Out 70
In 104


Heavy Vehicle 5-Minute Interval Summary
7:00 AM to 9:00 AM

| $\begin{gathered} \hline \text { Interval } \\ \text { Start } \\ \text { Time } \\ \hline \end{gathered}$ | Northbound I-5 NB Ramp |  |  |  | Southbound I-5 NB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 7:00 AM | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 1 | 1 | 7 |
| 7:05 AM | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 7 | 0 | 1 | 0 | 1 | 11 |
| 7:10 AM | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 1 | 7 | 8 | 0 | 1 | 0 | 1 | 17 |
| 7:15 AM | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 9 | 0 | 0 | 1 | 1 | 14 |
| 7:20 AM | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 11 | 12 | 0 | 1 | 2 | 3 | 17 |
| 7:25 AM | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 | 0 | 1 | 0 | 1 | 16 |
| 7:30 AM | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 8 | 0 | 4 | 4 | 8 | 18 |
| 7:35 AM | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 1 | 0 | 1 | 10 |
| 7:40 AM | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 9 | 0 | 1 | 0 | 1 | 15 |
| 7:45 AM | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 7 | 9 | 0 | 2 | 0 | 2 | 15 |
| 7:50 AM | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 10 | 0 | 1 | 1 | 2 | 21 |
| 7:55 AM | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 | 0 | 1 | 2 | 3 | 15 |
| 8:00 AM | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 7 | 0 | 0 | 2 | 2 | 14 |
| 8:05 AM | 3 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 9 | 10 | 0 | 1 | 0 | 1 | 15 |
| 8:10 AM | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 8 |
| 8:15 AM | 6 | 0 | 2 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 | 0 | 2 | 0 | 2 | 17 |
| 8:20 AM | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 11 | 12 | 0 | 2 | 0 | 2 | 18 |
| 8:25 AM | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 2 | 10 | 12 | 0 | 0 | 0 | 0 | 19 |
| 8:30 AM | 9 | 1 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 0 | 0 | 1 | 1 | 17 |
| 8:35 AM | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 3 | 8 | 11 | 0 | 1 | 2 | 3 | 19 |
| 8:40 AM | 4 | 0 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 | 0 | 1 | 2 | 3 | 15 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 9 | 10 | 0 | 0 | 2 | 2 | 12 |
| 8:50 AM | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 8 | 0 | 1 | 2 | 3 | 20 |
| 8:55 AM | 19 | 0 | 1 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 12 | 0 | 3 | 0 | 3 | 35 |
| Total Survey | 130 | 1 | 5 | 136 | 0 | 0 | 0 | 0 | 0 | 22 | 180 | 202 | 0 | 25 | 22 | 47 | 385 |

Heavy Vehicle 15-Minute Interval Summary
7:00 AM to 9:00 AM

| Interval Start Time | Northbound I-5 NB Ramp |  |  |  | Southbound I-5 NB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 7:00 AM | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 2 | 17 | 19 | 0 | 2 | 1 | 3 | 35 |
| 7:15 AM | 12 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 2 | 28 | 30 | 0 | 2 | 3 | 5 | 47 |
| 7:30 AM | 12 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 3 | 18 | 21 | 0 | 6 | 4 | 10 | 43 |
| 7:45 AM | 16 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 2 | 26 | 28 | 0 | 4 | 3 | 7 | 51 |
| 8:00 AM | 14 | 0 | 1 | 15 | 0 | 0 | 0 | 0 | 0 | 4 | 15 | 19 | 0 | 1 | 2 | 3 | 37 |
| 8:15 AM | 17 | 0 | 2 | 19 | 0 | 0 | 0 | 0 | 0 | 3 | 28 | 31 | 0 | 4 | 0 | 4 | 54 |
| 8:30 AM | 18 | 1 | 1 | 20 | 0 | 0 | 0 | 0 | 0 | 3 | 21 | 24 | 0 | 2 | 5 | 7 | 51 |
| 8:45 AM | 28 | 0 | 1 | 29 | 0 | 0 | 0 | 0 | 0 | 3 | 27 | 30 | 0 | 4 | 4 | 8 | 67 |
| Total Survey | 130 | 1 | 5 | 136 | 0 | 0 | 0 | 0 | 0 | 22 | 180 | 202 | 0 | 25 | 22 | 47 | 385 |

Heavy Vehicle Peak Hour Summary
7:10 AM to 8:10 AM

| By <br> Approach | Northbound I-5 NB Ramp |  |  | Southbound I-5 NB Ramp |  |  | Eastbound SW Nyberg Rd |  |  | Westbound SW Nyberg Rd |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | In | Out | Total | In | Out | Total | In | Out | Total |  |
| Volume | 57 | 92 | 149 | 0 | 12 | 12 | 104 | 70 | 174 | 26 | 13 | 39 | 187 |
| PHF | 0.79 |  |  | 0.00 |  |  | 0.87 |  |  | 0.54 |  |  | 0.92 |


| By <br> Movement | Northbound I-5 NB Ramp |  |  |  | Southbound I-5 NB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| Volume | 56 | 0 | 1 | 57 | 0 | 0 | 0 | 0 | 0 | 12 | 92 | 104 | 0 | 14 | 12 | 26 | 187 |
| PHF | 0.78 | 0.00 | 0.25 | 0.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.75 | 0.82 | 0.87 | 0.00 | 0.58 | 0.50 | 0.54 | 0.92 |

Heavy Vehicle Rolling Hour Summary
7:00 AM to 9:00 AM

| Interval Start Time | Northbound I-5 NB Ramp |  |  |  | Southbound I-5 NB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 7:00 AM | 53 | 0 | 0 | 53 | 0 | 0 | 0 | 0 | 0 | 9 | 89 | 98 | 0 | 14 | 11 | 25 | 176 |
| 7:15 AM | 54 | 0 | 1 | 55 | 0 | 0 | 0 | 0 | 0 | 11 | 87 | 98 | 0 | 13 | 12 | 25 | 178 |
| 7:30 AM | 59 | 0 | 3 | 62 | 0 | 0 | 0 | 0 | 0 | 12 | 87 | 99 | 0 | 15 | 9 | 24 | 185 |
| 7:45 AM | 65 | 1 | 4 | 70 | 0 | 0 | 0 | 0 | 0 | 12 | 90 | 102 | 0 | 11 | 10 | 21 | 193 |
| 8:00 AM | 77 | 1 | 5 | 83 | 0 | 0 | 0 | 0 | 0 | 13 | 91 | 104 | 0 | 11 | 11 | 22 | 209 |



I-5 NB Ramp \& SW Nyberg Rd
Tuesday, August 29, 2017
4:00 PM to 6:00 PM


5-Minute Interval Summary
4:00 PM to 6:00 PM

| $\begin{gathered} \hline \text { Interval } \\ \text { Start } \\ \text { Time } \\ \hline \end{gathered}$ | Northbound I-5 NB Ramp |  |  |  | Southbound I-5 NB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 4:00 PM | 57 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 101 | 71 | 0 | 0 | 34 | 49 | 0 | 317 | 0 | 0 | 0 | 0 |
| 4:05 PM | 44 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 94 | 76 | 0 | 0 | 43 | 62 | 0 | 331 | 0 | 0 | 2 | 0 |
| 4:10 PM | 61 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 95 | 66 | 0 | 0 | 39 | 50 | 0 | 327 | 0 | 1 | 0 | 0 |
| 4:15 PM | 49 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 95 | 79 | 0 | 0 | 39 | 45 | 0 | 321 | 0 | 1 | 0 | 0 |
| 4:20 PM | 44 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 105 | 83 | 0 | 0 | 46 | 37 | 0 | 324 | 0 | 0 | 0 | 0 |
| 4:25 PM | 73 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 118 | 67 | 0 | 0 | 35 | 44 | 0 | 348 | 0 | 0 | 2 | 0 |
| 4:30 PM | 71 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 106 | 77 | 0 | 0 | 48 | 42 | 0 | 353 | 0 | 0 | 0 | 0 |
| 4:35 PM | 55 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 135 | 64 | 0 | 0 | 29 | 56 | 0 | 353 | 0 | 0 | 0 | 0 |
| 4:40 PM | 74 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 83 | 77 | 0 | 0 | 40 | 48 | 0 | 344 | 0 | 0 | 1 | 0 |
| 4:45 PM | 65 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 122 | 85 | 0 | 0 | 45 | 52 | 0 | 383 | 0 | 0 | 0 | 0 |
| 4:50 PM | 42 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 124 | 71 | 0 | 0 | 55 | 46 | 0 | 352 | 0 | 0 | 0 | 0 |
| 4:55 PM | 64 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 94 | 65 | 0 | 0 | 40 | 48 | 0 | 327 | 0 | 0 | 1 | 0 |
| 5:00 PM | 52 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 113 | 84 | 0 | 0 | 39 | 42 | 0 | 339 | 0 | 0 | 0 | 0 |
| 5:05 PM | 41 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 97 | 66 | 0 | 0 | 45 | 52 | 0 | 310 | 0 | 0 | 0 | 0 |
| 5:10 PM | 62 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 98 | 74 | 0 | 0 | 51 | 45 | 0 | 346 | 3 | 0 | 0 | 0 |
| 5:15 PM | 51 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 111 | 84 | 0 | 0 | 42 | 58 | 0 | 356 | 0 | 0 | 0 | 0 |
| 5:20 PM | 43 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 141 | 67 | 0 | 0 | 53 | 41 | 0 | 358 | 0 | 0 | 0 | 0 |
| 5:25 PM | 60 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 119 | 85 | 0 | 0 | 37 | 56 | 0 | 372 | 0 | 0 | 0 | 0 |
| 5:30 PM | 73 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 111 | 69 | 0 | 0 | 31 | 39 | 0 | 339 | 0 | 0 | 0 | 0 |
| 5:35 PM | 40 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 126 | 74 | 0 | 0 | 45 | 46 | 0 | 340 | 4 | 0 | 0 | 0 |
| 5:40 PM | 56 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 98 | 63 | 0 | 0 | 37 | 35 | 0 | 303 | 0 | 0 | 0 | 0 |
| 5:45 PM | 83 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 92 | 78 | 0 | 0 | 38 | 43 | 0 | 350 | 2 | 0 | 0 | 0 |
| 5:50 PM | 38 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 121 | 70 | 0 | 0 | 44 | 39 | 0 | 321 | 2 | 0 | 0 | 0 |
| 5:55 PM | 81 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 84 | 71 | 0 | 0 | 28 | 50 | 0 | 330 | 2 | 0 | 1 | 0 |
| Total Survey | 1,379 | 0 | 308 | 0 | 0 | 0 | 0 | 0 | 0 | 2,583 | 1,766 | 0 | 0 | 983 | 1,125 | 0 | 8,144 | 13 | 2 | 7 | 0 |

15-Minute Interval Summary
4:00 PM to 6:00 PM

| Interval Start Time | Northbound I-5 NB Ramp |  |  |  | Southbound I-5 NB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 4:00 PM | 162 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 290 | 213 | 0 | 0 | 116 | 161 | 0 | 975 | 0 | 1 | 2 | 0 |
| 4:15 PM | 166 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 318 | 229 | 0 | 0 | 120 | 126 | 0 | 993 | 0 | 1 | 2 | 0 |
| 4:30 PM | 200 | 0 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 324 | 218 | 0 | 0 | 117 | 146 | 0 | 1,050 | 0 | 0 | 1 | 0 |
| 4:45 PM | 171 | 0 | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 340 | 221 | 0 | 0 | 140 | 146 | 0 | 1,062 | 0 | 0 | 1 | 0 |
| 5:00 PM | 155 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 308 | 224 | 0 | 0 | 135 | 139 | 0 | 995 | 3 | 0 | 0 | 0 |
| 5:15 PM | 154 | 0 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 371 | 236 | 0 | 0 | 132 | 155 | 0 | 1,086 | 0 | 0 | 0 | 0 |
| 5:30 PM | 169 | 0 | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 335 | 206 | 0 | 0 | 113 | 120 | 0 | 982 | 4 | 0 | 0 | 0 |
| 5:45 PM | 202 | 0 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 297 | 219 | 0 | 0 | 110 | 132 | 0 | 1,001 | 6 | 0 | 1 | 0 |
| Total Survey | 1,379 | 0 | 308 | 0 | 0 | 0 | 0 | 0 | 0 | 2,583 | 1,766 | 0 | 0 | 983 | 1,125 | 0 | 8,144 | 13 | 2 | 7 | 0 |

Peak Hour Summary
4:30 PM to 5:30 PM

| By <br> Approach | Northbound I-5 NB Ramp |  |  |  | Southbound I-5 NB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | Bikes | In | Out | Total | Bikes | In | Out | Total | Bikes | In | Out | Total | Bikes |  | North | South | East | West |
| Volume | 841 | 899 | 1,740 | 0 | 0 | 586 | 586 | 0 | 2,242 | 1,204 | 3,446 | 0 | 1,110 | 1,504 | 2,614 | 0 | 4,193 | 3 | 0 | 2 | 0 |
| \%HV | 5.2\% |  |  |  | 0.0\% |  |  |  | 1.8\% |  |  |  | 1.2\% |  |  |  | 2.3\% |  |  |  |  |
| PHF | 0.86 |  |  |  | 0.00 |  |  |  | 0.92 |  |  |  | 0.95 |  |  |  | 0.97 |  |  |  |  |
|  | Northbound I-5 NB Ramp |  |  |  | Southbound I-5 NB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  |  |  |  |  |  |
|  |  |  |  |  | Total |  |  |  |  |  |  |  |  |  |
|  | L | T | R | Total |  | L | T | R | Total | L | T | R |  |  |  |  | Total | L | T | R | Total |  |  |  |  |
| Volume | 680 | 0 | 161 | 841 | 0 | 0 | 0 | 0 | 0 | 1,343 | 899 | 2,242 | 0 | 524 | 586 | 1,110 | 4,193 |  |  |  |  |
| \%HV | 6.2\% | 0.0\% | 1.2\% | 5.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 3.8\% | 1.8\% | 0.0\% | 1.3\% | 1.0\% | 1.2\% | 2.3\% |  |  |  |  |
| PHF | 0.85 | 0.00 | 0.81 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.90 | 0.95 | 0.92 | 0.00 | 0.90 | 0.94 | 0.95 | 0.97 |  |  |  |  |

## Rolling Hour Summary

4:00 PM to 6:00 PM

| Interval Start Time | Northbound I-5 NB Ramp |  |  |  | Southbound I-5 NB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 4:00 PM | 699 | 0 | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 1,272 | 881 | 0 | 0 | 493 | 579 | 0 | 4,080 | 0 | 2 | 6 | 0 |
| 4:15 PM | 692 | 0 | 157 | 0 | 0 | 0 | 0 | 0 | 0 | 1,290 | 892 | 0 | 0 | 512 | 557 | 0 | 4,100 | 3 | 1 | 4 | 0 |
| 4:30 PM | 680 | 0 | 161 | 0 | 0 | 0 | 0 | 0 | 0 | 1,343 | 899 | 0 | 0 | 524 | 586 | 0 | 4,193 | 3 | 0 | 2 | 0 |
| 4:45 PM | 649 | 0 | 155 | 0 | 0 | 0 | 0 | 0 | 0 | 1,354 | 887 | 0 | 0 | 520 | 560 | 0 | 4,125 | 7 | 0 | 1 | 0 |
| 5:00 PM | 680 | 0 | 152 | 0 | 0 |  | 0 | 0 | 0 | 1,311 | 885 | 0 | 0 | 490 | 546 | 0 | 4,064 | 13 | 0 | 1 | 0 |

Heavy Vehicle Summary

Out 49
In 40

## I-5 NB Ramp \& SW Nyberg Rd

Tuesday, August 29, 2017
4:00 PM to 6:00 PM


Heavy Vehicle 5-Minute Interval Summary
4:00 PM to 6:00 PM

| $\begin{gathered} \hline \text { Interval } \\ \text { Start } \\ \text { Time } \\ \hline \end{gathered}$ | Northbound I-5 NB Ramp |  |  |  | Southbound I-5 NB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 4:00 PM | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 5 | 0 | 1 | 2 | 3 | 14 |
| 4:05 PM | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 0 | 1 | 0 | 1 | 8 |
| 4:10 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 1 | 1 | 3 |
| 4:15 PM | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 4 | 6 | 10 | 0 | 0 | 0 | 0 | 17 |
| 4:20 PM | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 7 |
| 4:25 PM | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 6 | 0 | 1 | 0 | 1 | 15 |
| 4:30 PM | 4 | 0 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 9 |
| 4:35 PM | 5 | 0 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 9 |
| 4:40 PM | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 0 | 0 | 0 | 0 | 6 |
| 4:45 PM | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 2 | 0 | 2 | 10 |
| 4:50 PM | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 2 | 1 | 3 | 13 |
| 4:55 PM | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 3 | 4 | 11 |
| 5:00 PM | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 7 |
| 5:05 PM | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 6 |
| 5:10 PM | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 4 | 0 | 1 | 0 | 1 | 8 |
| 5:15 PM | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 4 | 0 | 0 | 1 | 1 | 9 |
| 5:20 PM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 1 | 0 | 1 | 4 |
| 5:25 PM | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 1 | 1 | 5 |
| 5:30 PM | 2 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 2 | 2 | 8 |
| 5:35 PM | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 1 | 0 | 1 | 5 |
| 5:40 PM | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 1 | 1 | 8 |
| 5:45 PM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 5:50 PM | 1 | 0 | - | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 0 | 1 | 0 | 1 | 5 |
| 5:55 PM | 2 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 2 | 3 | 7 |
| Total Survey | 81 | 0 | 4 | 85 | 0 | 0 | 0 | 0 | 0 | 21 | 63 | 84 | 0 | 13 | 14 | 27 | 196 |

Heavy Vehicle 15-Minute Interval Summary 4:00 PM to 6:00 PM

| $\begin{gathered} \hline \text { Interval } \\ \text { Start } \\ \text { Time } \\ \hline \end{gathered}$ | Northbound I-5 NB Ramp |  |  |  | Southbound I-5 NB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 4:00 PM | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 2 | 10 | 12 | 0 | 2 | 3 | 5 | 25 |
| 4:15 PM | 19 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 8 | 11 | 19 | 0 | 1 | 0 | 1 | 39 |
| 4:30 PM | 12 | 0 | 2 | 14 | 0 | 0 | 0 | 0 | 0 | 2 | 8 | 10 | 0 | 0 | 0 | 0 | 24 |
| 4:45 PM | 16 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 | 0 | 5 | 4 | 9 | 34 |
| 5:00 PM | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 2 | 11 | 13 | 0 | 1 | 0 | 1 | 21 |
| 5:15 PM | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 8 | 0 | 1 | 2 | 3 | 18 |
| 5:30 PM | 8 | 0 | 1 | 9 | 0 | 0 | 0 | 0 | 0 | , | 5 | 8 | 0 | 1 | 3 | 4 | 21 |
| 5:45 PM | 4 | 0 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 5 | 0 | 2 | 2 | 4 | 14 |
| Total Surver | 81 | 0 | 4 | 85 | 0 | 0 | 0 | 0 | 0 | 21 | 63 | 84 | 0 | 13 | 14 | 27 | 196 |

Heavy Vehicle Peak Hour Summary
4:30 PM to 5:30 PM

| By <br> Approach | Northbound I-5 NB Ramp |  |  | Southbound I-5 NB Ramp |  |  | Eastbound SW Nyberg Rd |  |  | Westbound SW Nyberg Rd |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | In | Out | Total | In | Out | Total | In | Out | Total |  |
| Volume | 44 | 34 | 78 | 0 | 6 | 6 | 40 | 49 | 89 | 13 | 8 | 21 | 97 |
| PHF | 0.69 |  |  | 0.00 |  |  | 0.77 |  |  | 0.36 |  |  | 0.71 |


| By <br> Movement | Northbound I-5 NB Ramp |  |  |  | Southbound I-5 NB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| Volume | 42 | 0 | 2 | 44 | 0 | 0 | 0 | 0 | 0 | 6 | 34 | 40 | 0 | 7 | 6 | 13 | 97 |
| PHF | 0.66 | 0.00 | 0.25 | 0.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.38 | 0.77 | 0.77 | 0.00 | 0.35 | 0.38 | 0.36 | 0.71 |

Heavy Vehicle Rolling Hour Summary
4:00 PM to 6:00 PM

| Interval Start Time | Northbound I-5 NB Ramp |  |  |  | Southbound I-5 NB Ramp |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 4:00 PM | 55 | 0 | 2 | 57 | 0 | 0 | 0 | 0 | 0 | 12 | 38 | 50 | 0 | 8 | 7 | 15 | 122 |
| 4:15 PM | 54 | 0 | 2 | 56 | 0 | 0 | 0 | 0 | 0 | 12 | 39 | 51 | 0 | 7 | 4 | 11 | 118 |
| 4:30 PM | 42 | 0 | 2 | 44 | 0 | 0 | 0 | 0 | 0 | 6 | 34 | 40 | 0 | 7 | 6 | 13 | 97 |
| 4:45 PM | 38 | 0 | 1 | 39 | 0 | 0 | 0 | 0 | 0 | 7 | 31 | 38 | 0 | 8 | 9 | 17 | 94 |
| 5:00 PM | 26 | 0 | 2 | 28 | 0 | 0 | 0 | 0 | 0 | 9 | 25 | 34 | 0 | 5 | 7 | 12 | 74 |



## Total Vehicle Summary <br> All Traffic Data <br> Services In (503) 833-2740

Nyberg Woods \& SW Nyberg Rd
Wednesday, August 30, 2017
7:00 AM to 9:00 AM


5-Minute Interval Summary
7:00 AM to 9:00 AM

| Interval Start Time | Northbound Nyberg Woods |  |  |  | Southbound Nyberg Woods |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  |
| 7:00 AM | 2 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 4 | 29 | 1 | 0 | 1 | 78 | 6 | 0 | 124 |
| 7:05 AM | 5 | 0 | 0 | 0 | 2 | 0 | 4 | 0 | 12 | 35 | 2 | 0 | 2 | 80 | 9 | 0 | 151 |
| 7:10 AM | 6 | 0 | 0 | 0 | 2 | 0 | 4 | 0 | 7 | 26 | 0 | 0 | 0 | 82 | 3 | 1 | 130 |
| 7:15 AM | 8 | 0 | 0 | 0 | 3 | 0 | 2 | 0 | 13 | 52 | 0 | 0 | 0 | 87 | 6 | 0 | 171 |
| 7:20 AM | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 4 | 30 | 0 | 0 | 0 | 81 | 4 | 1 | 124 |
| 7:25 AM | 2 | 0 | 0 | 0 | 2 | 0 | 3 | 0 | 9 | 56 | 1 | 0 | 1 | 79 | 5 | 0 | 158 |
| 7:30 AM | 9 | 2 | 0 | 0 | 4 | 0 | 3 | 0 | 15 | 40 | 2 | 0 | 2 | 63 | 3 | 0 | 143 |
| 7:35 AM | 6 | 0 | 0 | 0 | 2 | 0 | 4 | 0 | 14 | 61 | 0 | 0 | 1 | 113 | 8 | 0 | 209 |
| 7:40 AM | 6 | 0 | 0 | 0 | 4 | 1 | 3 | 0 | 8 | 47 | 2 | 0 | 0 | 71 | 6 | 0 | 148 |
| 7:45 AM | 8 | 0 | 0 | 1 | 5 | 0 | 3 | 0 | 7 | 63 | 2 | 0 | 1 | 105 | 5 | 0 | 199 |
| 7:50 AM | 3 | 1 | 0 | 0 | 2 | 0 | 3 | 0 | 13 | 84 | 4 | 0 | 1 | 81 | 6 | 0 | 198 |
| 7:55 AM | 10 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 14 | 54 | 0 | 0 | 1 | 77 | 3 | 0 | 167 |
| 8:00 AM | 3 | 0 | 1 | 0 | 1 | 1 | 3 | 0 | 7 | 58 | 0 | 0 | 0 | 92 | 3 | 0 | 169 |
| 8:05 AM | 2 | 0 | 0 | 0 | 9 | 0 | 1 | 0 | 18 | 52 | 0 | 0 | 0 | 71 | 4 | 0 | 157 |
| 8:10 AM | 3 | 0 | 0 | 0 | 4 | 0 | 2 | 0 | 7 | 59 | 2 | 0 | 0 | 89 | 6 | 0 | 172 |
| 8:15 AM | 5 | 1 | 0 | 0 | 6 | 0 | 3 | 0 | 7 | 51 | 1 | 0 | 2 | 72 | 4 | 0 | 152 |
| 8:20 AM | 2 | 0 | 0 | 0 | 5 | 0 | 1 | 0 | 4 | 60 | 0 | 0 | 0 | 69 | 5 | 0 | 146 |
| 8:25 AM | 3 | 1 | 0 | 0 | 4 | 0 | 1 | 0 | 7 | 58 | 3 | 0 | 1 | 69 | 2 | 0 | 149 |
| 8:30 AM | 6 | 1 | 0 | 0 | 4 | 0 | 3 | 0 | 8 | 35 | 1 | 0 | 0 | 80 | 6 | 0 | 144 |
| 8:35 AM | 3 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 5 | 57 | 0 | 0 | 0 | 88 | 1 | 0 | 158 |
| 8:40 AM | 3 | 1 | 1 | 0 | 2 | 0 | 1 | 0 | 3 | 43 | 2 | 0 | 0 | 83 | 4 | 0 | 143 |
| 8:45 AM | 6 | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 5 | 51 | 1 | 0 | 0 | 74 | 6 | 0 | 147 |
| 8:50 AM | 7 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 14 | 42 | 1 | 0 | 0 | 66 | 4 | 0 | 138 |
| 8:55 AM | 2 | 0 | 0 | 0 | 3 | 0 | 6 | 0 | 11 | 50 | 4 | 0 | 3 | 79 | 9 | 0 | 167 |
| Total Survey | 112 | 8 | 2 | 1 | 73 | 2 | 66 | 0 | 216 | 1,193 | 29 | 0 | 16 | 1,929 | 118 | 2 | 3,764 |


| Pedestrians <br> Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: |
| North | South | East | West |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 |
| 1 | 4 | 0 | 3 |

15-Minute Interval Summary
7:00 AM to 9:00 AM

| Interval Start <br> Time | Northbound Nyberg Woods |  |  |  | Southbound Nyberg Woods |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  |
| 7:00 AM | 13 | 0 | 0 | 0 | 5 | 0 | 10 | 0 | 23 | 90 | 3 | 0 | 3 | 240 | 18 | 1 | 405 |
| 7:15 AM | 12 | 0 | 0 | 0 | 5 | 0 | 8 | 0 | 26 | 138 | 1 | 0 | 1 | 247 | 15 | 1 | 453 |
| 7:30 AM | 21 | 2 | 0 | 0 | 10 | 1 | 10 | 0 | 37 | 148 | 4 | 0 | 3 | 247 | 17 | 0 | 500 |
| 7:45 AM | 21 | 1 | 0 | 1 | 11 | 0 | 10 | 0 | 34 | 201 | 6 | 0 | 3 | 263 | 14 | 0 | 564 |
| 8:00 AM | 8 | 0 | 1 | 0 | 14 | 1 | 6 | 0 | 32 | 169 | 2 | 0 | 0 | 252 | 13 | 0 | 498 |
| 8:15 AM | 10 | 2 | 0 | 0 | 15 | 0 | 5 | 0 | 18 | 169 | 4 | 0 | 3 | 210 | 11 | 0 | 447 |
| 8:30 AM | 12 | 2 | 1 | 0 | 8 | 0 | 6 | 0 | 16 | 135 | 3 | 0 | 0 | 251 | 11 | 0 | 445 |
| 8:45 AM | 15 | 1 | 0 | 0 | 5 | 0 | 11 | 0 | 30 | 143 | 6 | 0 | 3 | 219 | 19 | 0 | 452 |
| Total Survey | 112 | 8 | 2 | 1 | 73 | 2 | 66 | 0 | 216 | 1,193 | 29 | 0 | 16 | 1,929 | 118 | 2 | 3,764 |


| Pedestrians <br> Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: |
| North | South | East | West |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 2 | 0 | 0 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 1 |
| 1 | 4 | 0 | 3 |

Peak Hour Summary
7:25 AM to 8:25 AM

| By <br> Approach | Northbound Nyberg Woods |  |  |  | Southbound Nyberg Woods |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | Bikes | In | Out | Total | Bikes | In | Out | Total | Bikes | In | Out | Total | Bikes |  |
| Volume | 64 | 25 | 89 | 1 | 83 | 185 | 268 | 0 | 822 | 1,074 | 1,896 | 0 | 1,049 | 734 | 1,783 | 0 | 2,018 |
| \%HV | 3.1\% |  |  |  | 2.4\% |  |  |  | 1.6\% |  |  |  | 1.5\% |  |  |  | 1.6\% |
| PHF | 0.70 |  |  |  | 0.83 |  |  |  | 0.85 |  |  |  | 0.85 |  |  |  | 0.89 |
| By <br> Movement | Northbound Nyberg Woods |  |  |  | Southbound Nyberg Woods |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Total |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| Volume | 59 | 4 | 1 | 64 | 48 | 2 | 33 | 83 | 123 | 685 | 14 | 822 | 9 | 982 | 58 | 1,049 | 2,018 |
| \%HV | 3.4\% | 0.0\% | 0.0\% | 3.1\% | 0.0\% | 0.0\% | 6.1\% | 2.4\% | 0.0\% | 1.9\% | 0.0\% | 1.6\% | 0.0\% | 1.5\% | 1.7\% | 1.5\% | 1.6\% |
| PHF | 0.70 | 0.50 | 0.25 | 0.70 | 0.63 | 0.50 | 0.83 | 0.83 | 0.79 | 0.85 | 0.44 | 0.85 | 0.56 | 0.85 | 0.76 | 0.85 | 0.89 |



Rolling Hour Summary
7:00 AM to 9:00 AM

| Interval Start <br> Time | Northbound Nyberg Woods |  |  |  | Southbound Nyberg Woods |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 7:00 AM | 67 | 3 | 0 | 1 | 31 | 1 | 38 | 0 | 120 | 577 | 14 | 0 | 10 | 997 | 64 | 2 | 1,922 | 0 | 2 | 0 | 0 |
| 7:15 AM | 62 | 3 | 1 | 1 | 40 | 2 | 34 | 0 | 129 | 656 | 13 | 0 | 7 | 1,009 | 59 | 1 | 2,015 | 0 | 3 | 0 | 1 |
| 7:30 AM | 60 | 5 | 1 | 1 | 50 | 2 | 31 | 0 | 121 | 687 | 16 | 0 | 9 | 972 | 55 | 0 | 2,009 | 0 | 4 | 0 | 2 |
| 7:45 AM | 51 | 5 | 2 | 1 | 48 | 1 | 27 | 0 | 100 | 674 | 15 | 0 | 6 | 976 | 49 | 0 | 1,954 | 0 | 4 | 0 | 2 |
| 8:00 AM | 45 | 5 | 2 | 0 | 42 | 1 | 28 | 0 | 96 | 616 | 15 | 0 | 6 | 932 | 54 | 0 | 1,842 | 1 | 2 | 0 | 3 |

Heavy Vehicle Summary

Out 19
In 13

## Nyberg Woods \& SW Nyberg Rd

Wednesday, August 30, 2017
7:00 AM to 9:00 AM


Heavy Vehicle 5-Minute Interval Summary
7:00 AM to 9:00 AM

| $\begin{gathered} \hline \text { Interval } \\ \text { Start } \\ \text { Time } \\ \hline \end{gathered}$ | Northbound Nyberg Woods |  |  |  | Southbound Nyberg Woods |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 |
| 7:05 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 1 | 1 | 3 |
| 7:10 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM |  | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 4 |
| 7:20 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 2 |
| 7:25 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 4 | 0 | 4 | 7 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 |
| 7:35 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 |
| 7:40 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 7:45 AM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 3 |
| 7:50 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 3 |
| 7:55 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| 8:05 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 3 |
| 8:10 AM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 3 | 0 | 3 | 5 |
| 8:20 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 2 |
| 8:25 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 |
| 8:35 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 4 |
| 8:40 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 3 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 8:50 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 1 | 0 | 1 | 4 |
| 8:55 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 4 |
| Total Survey | 3 | 0 | 0 | 3 | 0 | 0 | 3 | 3 | 4 | 26 | 0 | 30 | 0 | 27 | 2 | 29 | 65 |

Heavy Vehicle 15-Minute Interval Summary
7:00 AM to 9:00 AM

| $\begin{gathered} \hline \text { Interval } \\ \text { Start } \\ \text { Time } \\ \hline \end{gathered}$ | Northbound Nyberg Woods |  |  |  | Southbound Nyberg Woods |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 1 | 3 | 5 |
| 7:15 AM | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 2 | 2 | 3 | 0 | 5 | 0 | 5 | 0 | 5 | 13 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 4 | 0 | 4 | 5 |
| 7:45 AM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 2 | 1 | 3 | 7 |
| 8:00 AM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 0 | 1 | 0 | 1 | 7 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 5 | 0 | 5 | 0 | 4 | 0 | 4 | 10 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 6 | 0 | 6 | 9 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 0 | 6 | 0 | 3 | 0 | 3 | 9 |
| Total Surver | 3 | 0 | 0 | 3 | 0 | 0 | 3 | 3 | 4 | 26 | 0 | 30 | 0 | 27 | 2 | 29 | 65 |

Heavy Vehicle Peak Hour Summary
7:25 AM to 8:25 AM

| By <br> Approach | Northbound Nyberg Woods |  |  | Southbound Nyberg Woods |  |  | Eastbound SW Nyberg Rd |  |  | Westbound SW Nyberg Rd |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | In | Out | Total | In | Out | Total | In | Out | Total |  |
| Volume | 2 | 0 | 2 | 2 | 1 | 3 | 13 | 19 | 32 | 16 | 13 | 29 | 33 |
| PHF | 0.50 |  |  | 0.50 |  |  | 0.54 |  |  | 0.50 |  |  | 0.75 |


| By <br> Movement | Northbound Nyberg Woods |  |  |  | Southbound Nyberg Woods |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| Volume | 2 | 0 | 0 | 2 | 0 | 0 | 2 | 2 | 0 | 13 | 0 | 13 | 0 | 15 | 1 | 16 | 33 |
| PHF | 0.50 | 0.00 | 0.00 | 0.50 | 0.00 | 0.00 | 0.50 | 0.50 | 0.00 | 0.54 | 0.00 | 0.54 | 0.00 | 0.47 | 0.25 | 0.50 | 0.75 |

Heavy Vehicle Rolling Hour Summary
7:00 AM to 9:00 AM

| $\begin{gathered} \hline \text { Interval } \\ \text { Start } \\ \text { Time } \end{gathered}$ | Northbound Nyberg Woods |  |  |  | Southbound Nyberg Woods |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 7:00 AM | 2 | 0 | 0 | 2 | 0 | 0 | 2 | 2 | 3 | 8 | 0 | 11 | 0 | 13 | 2 | 15 | 30 |
| 7:15 AM | 3 | 0 | 0 | 3 | 0 | 0 | 2 | 2 | 2 | 12 | 0 | 14 | 0 | 12 | 1 | 13 | 32 |
| 7:30 AM | 2 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 14 | 0 | 14 | 0 | 11 | 1 | 12 | 29 |
| 7:45 AM | 2 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 16 | 0 | 16 | 0 | 13 | 1 | 14 | 33 |
| 8:00 AM | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 18 | 0 | 19 | 0 | 14 | 0 | 14 | 35 |




Nyberg Woods \& SW Nyberg Rd
Tuesday, August 29, 2017
4:00 PM to 6:00 PM

5-Minute Interval Summary
4:00 PM to 6:00 PM

| $\begin{gathered} \hline \text { Interval } \\ \text { Start } \\ \text { Time } \\ \hline \end{gathered}$ | Northbound Nyberg Woods |  |  |  | Southbound Nyberg Woods |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 4:00 PM | 12 | 0 | 0 | 0 | 11 | 0 | 20 | 0 | 16 | 88 | 2 | 0 | 2 | 65 | 7 | 0 | 223 | 0 | 0 | 0 | 0 |
| 4:05 PM | 5 | 0 | 1 | 0 | 3 | 2 | 18 | 0 | 21 | 88 | 0 | 0 | 1 | 56 | 3 | 0 | 198 | 0 | 0 | 0 | 0 |
| 4:10 PM | 5 | 0 | 0 | 0 | 4 | 0 | 12 | 0 | 12 | 102 | 2 | 0 | 0 | 77 | 6 | 0 | 220 | 0 | 0 | 0 | 0 |
| 4:15 PM | 4 | 1 | 1 | 0 | 9 | 0 | 9 | 0 | 17 | 88 | 1 | 0 | 0 | 62 | 6 | 0 | 198 | 0 | 0 | 0 | 0 |
| 4:20 PM | 8 | 3 | 2 | 0 | 6 | 1 | 13 | 0 | 10 | 81 | 3 | 0 | 0 | 57 | 3 | 0 | 187 | 0 | 0 | 0 | 0 |
| 4:25 PM | 2 | 1 | 0 | 0 | 6 | 0 | 19 | 0 | 25 | 115 | 2 | 0 | 0 | 65 | 9 | 0 | 244 | 1 | 0 | 0 | 0 |
| 4:30 PM | 4 | 1 | 1 | 0 | 10 | 0 | 12 | 0 | 7 | 104 | 2 | 0 | 2 | 61 | 6 | 1 | 210 | 1 | 0 | 0 | 0 |
| 4:35 PM | 6 | 0 | 0 | 0 | 4 | 2 | 17 | 0 | 33 | 93 | 0 | 0 | 2 | 51 | 1 | 0 | 209 | 0 | 0 | 0 | 0 |
| 4:40 PM | 7 | 2 | 0 | 0 | 8 | 0 | 11 | 0 | 16 | 99 | 5 | 0 | 2 | 76 | 10 | 0 | 236 | 0 | 0 | 0 | 0 |
| 4:45 PM | 5 | 0 | 1 | 0 | 9 | 0 | 16 | 0 | 19 | 111 | 5 | 0 | 0 | 66 | 2 | 0 | 234 | 1 | 0 | 0 | 0 |
| 4:50 PM | 8 | 1 | 0 | 0 | 6 | 1 | 12 | 0 | 26 | 85 | 5 | 0 | 0 | 61 | 3 | 0 | 208 | 0 | 0 | 0 | 0 |
| 4:55 PM | 4 | 0 | 3 | 0 | 3 | 2 | 13 | 0 | 13 | 112 | 3 | 0 | 0 | 76 | 5 | 0 | 234 | 3 | 2 | 0 | 1 |
| 5:00 PM | 6 | 1 | 0 | 0 | 9 | 0 | 11 | 0 | 11 | 97 | 2 | 0 | 0 | 60 | 4 | 0 | 201 | 0 | 0 | 0 | 1 |
| 5:05 PM | 7 | 1 | 0 | 0 | 8 | 1 | 10 | 0 | 19 | 78 | 6 | 1 | 2 | 81 | 3 | 0 | 216 | 0 | 0 | 0 | 1 |
| 5:10 PM | 2 | 2 | 0 | 0 | 9 | 0 | 7 | 0 | 17 | 103 | 4 | 0 | 2 | 94 | 6 | 0 | 246 | 5 | 0 | 0 | 0 |
| 5:15 PM | 5 | 0 | 0 | 0 | 12 | 0 | 11 | 0 | 22 | 98 | 3 | 0 | 0 | 70 | 4 | 1 | 225 | 0 | 0 | 0 | 0 |
| 5:20 PM | 9 | 0 | 2 | 0 | 18 | 0 | 12 | 0 | 16 | 107 | 3 | 0 | 1 | 78 | 5 | 1 | 251 | 0 | 0 | 0 | 0 |
| 5:25 PM | 5 | 2 | 0 | 0 | 6 | 0 | 18 | 0 | 32 | 100 | 3 | 0 | 1 | 50 | 3 | 0 | 220 | 0 | 0 | 0 | 0 |
| 5:30 PM | 4 | 2 | 1 | 0 | 9 | 1 | 10 | 0 | 16 | 104 | 7 | 0 | 1 | 70 | 9 | 0 | 234 | 0 | 0 | 0 | 0 |
| 5:35 PM | 9 | 1 | 2 | 0 | 7 | 0 | 13 | 0 | 21 | 95 | 6 | 0 | 2 | 50 | 5 | 0 | 211 | 0 | 0 | 0 | 0 |
| 5:40 PM | 9 | 0 | 1 | 0 | 13 | 0 | 13 | 0 | 19 | 88 | 3 | 0 | 0 | 39 | 6 | 0 | 191 | 0 | 0 | 0 | 0 |
| 5:45 PM | 6 | 1 | 0 | 0 | 8 | 0 | 14 | 0 | 20 | 96 | 2 | 0 | 0 | 72 | 5 | 0 | 224 | 1 | 0 | 0 | 0 |
| 5:50 PM | 7 | 1 | 2 | 0 | 5 | 1 | 11 | 0 | 24 | 82 | 4 | 0 | 1 | 59 | 7 | 0 | 204 | 1 | 0 | 0 | 0 |
| 5:55 PM | 3 | 0 | 1 | 0 | 3 | 0 | 12 | 0 | 15 | 109 | 0 | 0 | 0 | 73 | 6 | 0 | 222 | 0 | 1 | 0 | 0 |
| Total Survey | 142 | 20 | 18 | 0 | 186 | 11 | 314 | 0 | 447 | 2,323 | 73 | 1 | 19 | 1,569 | 124 | 3 | 5,246 | 13 | 3 | 0 | 3 |

15-Minute Interval Summary
4:00 PM to 6:00 PM

| Interval Start Time | Northbound Nyberg Woods |  |  |  | Southbound Nyberg Woods |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 4:00 PM | 22 | 0 | 1 | 0 | 18 | 2 | 50 | 0 | 49 | 278 | 4 | 0 | 3 | 198 | 16 | 0 | 641 | 0 | 0 | 0 | 0 |
| 4:15 PM | 14 | 5 | 3 | 0 | 21 | 1 | 41 | 0 | 52 | 284 | 6 | 0 | 0 | 184 | 18 | 0 | 629 | 1 | 0 | 0 | 0 |
| 4:30 PM | 17 | 3 | 1 | 0 | 22 | 2 | 40 | 0 | 56 | 296 | 7 | 0 | 6 | 188 | 17 | 1 | 655 | 1 | 0 | 0 | 0 |
| 4:45 PM | 17 | 1 | 4 | 0 | 18 | 3 | 41 | 0 | 58 | 308 | 13 | 0 | 0 | 203 | 10 | 0 | 676 | 4 | 2 | 0 | 1 |
| 5:00 PM | 15 | 4 | 0 | 0 | 26 | 1 | 28 | 0 | 47 | 278 | 12 | 1 | 4 | 235 | 13 | 0 | 663 | 5 | 0 | 0 | 2 |
| 5:15 PM | 19 | 2 | 2 | 0 | 36 | 0 | 41 | 0 | 70 | 305 | 9 | 0 | 2 | 198 | 12 | 2 | 696 | 0 | 0 | 0 | 0 |
| 5:30 PM | 22 | 3 | 4 | 0 | 29 | 1 | 36 | 0 | 56 | 287 | 16 | 0 | 3 | 159 | 20 | 0 | 636 | 0 | 0 | 0 | 0 |
| 5:45 PM | 16 | 2 | 3 | 0 | 16 | 1 | 37 | 0 | 59 | 287 | 6 | 0 | 1 | 204 | 18 | 0 | 650 | 2 | 1 | 0 | 0 |
| Total Survey | 142 | 20 | 18 | 0 | 186 | 11 | 314 | 0 | 447 | 2,323 | 73 | 1 | 19 | 1,569 | 124 | 3 | 5,246 | 13 | 3 | 0 | 3 |

Peak Hour Summary
4:40 PM to 5:40 PM

| By <br> Approach | Northbound Nyberg Woods |  |  |  | Southbound Nyberg Woods |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | Bikes | In | Out | Total | Bikes | In | Out | Total | Bikes | In | Out | Total | Bikes |  |
| Volume | 92 | 68 | 160 | 0 | 253 | 299 | 552 | 0 | 1,469 | 1,047 | 2,516 | 1 | 902 | 1,302 | 2,204 | 2 | 2,716 |
| \%HV | 0.0\% |  |  |  | 0.8\% |  |  |  | 0.5\% |  |  |  | 1.7\% |  |  |  | 0.9\% |
| PHF | 0.88 |  |  |  | 0.82 |  |  |  | 0.95 |  |  |  | 0.86 |  |  |  | 0.94 |
| By <br> Movement | Northbound Nyberg Woods |  |  |  | Southbound Nyberg Woods |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Total |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| Volume | 71 | 12 | 9 | 92 | 104 | 5 | 144 | 253 | 228 | 1,189 | 52 | 1,469 | 11 | 832 | 59 | 902 | 2,716 |
| \%HV | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.8\% | 0.4\% | 0.6\% | 0.0\% | 0.5\% | 0.0\% | 1.8\% | 0.0\% | 1.7\% | 0.9\% |
| PHF | 0.89 | 0.60 | 0.56 | 0.88 | 0.67 | 0.42 | 0.88 | 0.82 | 0.81 | 0.96 | 0.81 | 0.95 | 0.69 | 0.85 | 0.87 | 0.86 | 0.94 |



Rolling Hour Summary
4:00 PM to 6:00 PM

| Interval Start Time | Northbound Nyberg Woods |  |  |  | Southbound Nyberg Woods |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 4:00 PM | 70 | 9 | 9 | 0 | 79 | 8 | 172 | 0 | 215 | 1,166 | 30 | 0 | 9 | 773 | 61 | 1 | 2,601 | 6 | 2 | 0 | 1 |
| 4:15 PM | 63 | 13 | 8 | 0 | 87 | 7 | 150 | 0 | 213 | 1,166 | 38 | 1 | 10 | 810 | 58 | 1 | 2,623 | 11 | 2 | 0 | 3 |
| 4:30 PM | 68 | 10 | 7 | 0 | 102 | 6 | 150 | 0 | 231 | 1,187 | 41 | 1 | 12 | 824 | 52 | 3 | 2,690 | 10 | 2 | 0 | 3 |
| 4:45 PM | 73 | 10 | 10 | 0 | 109 | 5 | 146 | 0 | 231 | 1,178 | 50 | 1 | 9 | 795 | 55 | 2 | 2,671 | 9 | 2 | 0 | 3 |
| 5:00 PM | 72 | 11 | 9 | 0 | 107 | 3 | 142 | 0 | 232 | 1,157 | 43 | 1 | 10 | 796 | 63 | 2 | 2,645 | 7 | 1 | 0 | 2 |

Heavy Vehicle Summary

Nyberg Woods \& SW Nyberg Rd
Tuesday, August 29, 2017
4:00 PM to 6:00 PM
Out 17
In 8


Heavy Vehicle 5-Minute Interval Summary
4:00 PM to 6:00 PM

| $\begin{gathered} \text { Interval } \\ \text { Start } \\ \text { Time } \end{gathered}$ | Northbound Nyberg Woods |  |  |  | Southbound Nyberg Woods |  |  |  | EastboundSW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 4:00 PM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 2 | 0 | 1 | 0 | 1 | 4 |
| 4:05 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 4:10 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| 4:20 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 4:25 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 1 | 0 | 1 | 4 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 4:35 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:40 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 3 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 4 |
| 4:50 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:55 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 5 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:05 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 2 |
| 5:10 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 5:20 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 1 | 0 | 1 | 2 |
| 5:25 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 3 |
| 5:35 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 1 | 0 | 1 | 3 |
| 5:40 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 2 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 5:50 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 3 |
| 5:55 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 7 | 7 |
| Total Survey | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 4 | 22 | 0 | 26 | 0 | 25 | 1 | 26 | 55 |

Heavy Vehicle 15-Minute Interval Summary 4:00 PM to 6:00 PM

| IntervalStartTime Time | Northbound Nyberg Woods |  |  |  | Southbound Nyberg Woods |  |  |  | EastboundSW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 4:00 PM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 2 | 0 | 4 | 0 | 1 | 0 | 1 | 6 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 0 | 1 | 0 | 1 | 8 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 4 | 0 | 1 | 0 | 1 | 5 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 9 | 9 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 3 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 4 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 0 | 3 | 0 | 4 | 0 | 4 | 8 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 4 | 0 | 7 | 1 | 8 | 12 |
| Total Survey | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 4 | 22 | 0 | 26 | 0 | 25 | 1 | 26 | 55 |

Heavy Vehicle Peak Hour Summary
4:40 PM to 5:40 PM

| By <br> Approach | Northbound Nyberg Woods |  |  | Southbound Nyberg Woods |  |  | Eastbound SW Nyberg Rd |  |  | Westbound SW Nyberg Rd |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | In | Out | Total | In | Out | Total | In | Out | Total |  |
| Volume | 0 | 0 | 0 | 2 | 1 | 3 | 8 | 17 | 25 | 15 | 7 | 22 | 25 |
| PHF | 0.00 |  |  | 0.25 |  |  | 0.67 |  |  | 0.42 |  |  | 0.69 |


| By <br> Movement | Northbound Nyberg Woods |  |  |  | Southbound Nyberg Woods |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 7 | 0 | 8 | 0 | 15 | 0 | 15 | 25 |
| PHF | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.25 | 0.25 | 0.58 | 0.00 | 0.67 | 0.00 | 0.42 | 0.00 | 0.42 | 0.69 |

Heavy Vehicle Rolling Hour Summary
4:00 PM to 6:00 PM

| Interval Start Time | Northbound Nyberg Woods |  |  |  | Southbound Nyberg Woods |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 4:00 PM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 3 | 12 | 0 | 15 | 0 | 12 | 0 | 12 | 28 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 12 | 0 | 13 | 0 | 12 | 0 | 12 | 25 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 7 | 0 | 8 | 0 | 12 | 0 | 12 | 21 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 6 | 0 | 7 | 0 | 15 | 0 | 15 | 24 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 10 | 0 | 11 | 0 | 13 | 1 | 14 | 27 |



SW Nyberg Ln \& SW Nyberg Rd
Wednesday, August 30, 2017
7:00 AM to 9:00 AM


5-Minute Interval Summary
7:00 AM to 9:00 AM

| Interval Start Time | Northbound SW Nyberg Ln |  |  |  | Southbound SW Nyberg Ln |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  |
| 7:00 AM | 4 | 1 | 4 | 0 | 2 | 0 | 14 | 0 | 5 | 20 | 2 | 0 | 2 | 72 | 0 | 0 | 126 |
| 7:05 AM | 2 | 0 | 1 | 0 | 0 | 0 | 20 | 0 | 3 | 22 | 3 | 0 | 4 | 53 | 1 | 0 | 109 |
| 7:10 AM | 3 | 0 | 1 | 0 | 2 | 0 | 28 | 0 | 4 | 24 | 1 | 0 | 4 | 53 | 0 | 1 | 120 |
| 7:15 AM | 4 | 1 | 1 | 0 | 2 | 1 | 27 | 0 | 3 | 42 | 2 | 0 | 1 | 60 | 1 | 0 | 145 |
| 7:20 AM | 1 | 0 | 3 | 0 | 1 | 0 | 22 | 0 | 5 | 33 | 1 | 0 | 5 | 65 | 1 | 0 | 137 |
| 7:25 AM | 1 | 0 | 4 | 0 | 0 | 0 | 22 | 0 | 8 | 46 | 1 | 0 | 2 | 56 | 0 | 0 | 140 |
| 7:30 AM | 1 | 0 | 3 | 0 | 1 | 1 | 15 | 0 | 8 | 33 | 2 | 0 | 2 | 62 | 1 | 0 | 129 |
| 7:35 AM | 1 | 0 | 3 | 0 | 1 | 0 | 20 | 0 | 8 | 38 | 3 | 0 | 4 | 63 | 0 | 0 | 141 |
| 7:40 AM | 1 | 0 | 4 | 0 | 0 | 0 | 22 | 0 | 5 | 56 | 1 | 0 | 1 | 67 | 2 | 0 | 159 |
| 7:45 AM | 0 | 0 | 2 | 0 | 0 | 0 | 27 | 0 | 8 | 45 | 0 | 0 | 2 | 72 | 2 | 0 | 158 |
| 7:50 AM | 0 | 0 | 1 | 0 | 4 | 0 | 19 | 0 | 10 | 80 | 3 | 0 | 6 | 56 | 2 | 0 | 181 |
| 7:55 AM | 2 | 1 | 5 | 0 | 0 | 0 | 16 | 0 | 10 | 49 | 0 | 0 | 2 | 65 | 3 | 0 | 153 |
| 8:00 AM | 2 | 0 | 0 | 0 | 1 | 1 | 18 | 0 | 8 | 52 | 3 | 0 | 2 | 54 | 0 | 0 | 141 |
| 8:05 AM | 1 | 0 | 4 | 0 | 1 | 0 | 18 | 0 | 7 | 46 | 2 | 0 | 4 | 56 | 1 | 0 | 140 |
| 8:10 AM | 3 | 0 | 3 | 0 | 0 | 0 | 21 | 0 | 8 | 52 | 3 | 0 | 2 | 64 | 2 | 0 | 158 |
| 8:15 AM | 1 | 1 | 5 | 0 | 0 | 2 | 20 | 0 | 7 | 38 | 1 | 0 | 2 | 57 | 3 | 0 | 137 |
| 8:20 AM | 0 | 1 | 4 | 0 | 0 | 1 | 13 | 0 | 9 | 51 | 2 | 0 | 2 | 56 | 4 | 0 | 143 |
| 8:25 AM | 2 | 0 | 1 | 0 | 1 | 0 | 14 | 0 | 10 | 57 | 1 | 0 | 4 | 49 | 3 | 0 | 142 |
| 8:30 AM | 1 | 1 | 2 | 0 | 3 | 2 | 22 | 0 | 7 | 29 | 2 | 1 | 5 | 66 | 2 | 0 | 142 |
| 8:35 AM | 0 | 2 | 1 | 0 | 2 | 0 | 20 | 0 | 13 | 38 | 0 | 0 | 4 | 55 | 1 | 0 | 136 |
| 8:40 AM | 2 | 0 | 0 | 0 | 1 | 0 | 21 | 0 | 10 | 40 | 3 | 0 | 0 | 62 | 1 | 0 | 140 |
| 8:45 AM | 2 | 0 | 6 | 0 | 0 | 0 | 15 | 0 | 11 | 34 | 0 | 0 | 6 | 58 | 2 | 0 | 134 |
| 8:50 AM | 1 | 0 | 1 | 0 | 0 | 1 | 11 | 0 | 8 | 42 | 0 | 0 | 5 | 71 | 2 | 0 | 142 |
| 8:55 AM | 2 | 1 | 1 | 0 | 1 | 0 | 15 | 0 | 5 | 45 | 1 | 0 | 5 | 68 | 2 | 0 | 146 |
| Total Survey | 37 | 9 | 60 | 0 | 23 | 9 | 460 | 0 | 180 | 1,012 | 37 | 1 | 76 | 1,460 | 36 | 1 | 3,399 |


| Pedestrians <br> Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: |
| North | South | East | West |
| 1 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 2 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 |
| 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 2 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 1 |
| 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 1 | 5 | 1 | 4 |

15-Minute Interval Summary
7:00 AM to 9:00 AM

| Interval Start Time | Northbound SW Nyberg Ln |  |  |  | Southbound SW Nyberg Ln |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  |
| 7:00 AM | 9 | 1 | 6 | 0 | 4 | 0 | 62 | 0 | 12 | 66 | 6 | 0 | 10 | 178 | 1 | 1 | 355 |
| 7:15 AM | 6 | 1 | 8 | 0 | 3 | 1 | 71 | 0 | 16 | 121 | 4 | 0 | 8 | 181 | 2 | 0 | 422 |
| 7:30 AM | 3 | 0 | 10 | 0 | 2 | 1 | 57 | 0 | 21 | 127 | 6 | 0 | 7 | 192 | 3 | 0 | 429 |
| 7:45 AM | 2 | 1 | 8 | 0 | 4 | 0 | 62 | 0 | 28 | 174 | 3 | 0 | 10 | 193 | 7 | 0 | 492 |
| 8:00 AM | 6 | 0 | 7 | 0 | 2 | 1 | 57 | 0 | 23 | 150 | 8 | 0 | 8 | 174 | 3 | 0 | 439 |
| 8:15 AM | 3 | 2 | 10 | 0 | 1 | 3 | 47 | 0 | 26 | 146 | 4 | 0 | 8 | 162 | 10 | 0 | 422 |
| 8:30 AM | 3 | 3 | 3 | 0 | 6 | 2 | 63 | 0 | 30 | 107 | 5 | 1 | 9 | 183 | 4 | 0 | 418 |
| 8:45 AM | 5 | 1 | 8 | 0 | 1 | 1 | 41 | 0 | 24 | 121 | 1 | 0 | 16 | 197 | 6 | 0 | 422 |
| Total Survey | 37 | 9 | 60 | 0 | 23 | 9 | 460 | 0 | 180 | 1,012 | 37 | 1 | 76 | 1,460 | 36 | 1 | 3,399 |


| Pedestrians <br> Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: |
| North | South | East | West |
| 1 | 0 | 0 | 0 |
| 0 | 2 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 2 |
| 0 | 0 | 0 | 0 |
| 0 | 2 | 0 | 0 |
| 0 | 0 | 1 | 2 |
| 0 | 0 | 0 | 0 |
| 1 | 5 | 1 | 4 |

Peak Hour Summary
7:35 AM to 8:35 AM

| By <br> Approach | Northbound SW Nyberg Ln |  |  |  | Southbound SW Nyberg Ln |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | Bikes | In | Out | Total | Bikes | In | Out | Total | Bikes | In | Out | Total | Bikes |  |
| Volume | 52 | 63 | 115 | 0 | 247 | 125 | 372 | 0 | 711 | 969 | 1,680 | 1 | 785 | 638 | 1,423 | 0 | 1,795 |
| \%HV | 0.0\% |  |  |  | 0.4\% |  |  |  | 1.5\% |  |  |  | 1.7\% |  |  |  | 1.4\% |
| PHF | 0.72 |  |  |  | 0.86 |  |  |  | 0.83 |  |  |  | 0.92 |  |  |  | 0.90 |
| By <br> Movement | Northbound SW Nyberg Ln |  |  |  | Southbound SW Nyberg Ln |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Total |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| Volume | 14 | 4 | 34 | 52 | 11 | 6 | 230 | 247 | 97 | 593 | 21 | 711 | 36 | 725 | 24 | 785 | 1,795 |
| \%HV | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.4\% | 3.1\% | 1.3\% | 0.0\% | 1.5\% | 0.0\% | 1.7\% | 4.2\% | 1.7\% | 1.4\% |
| PHF | 0.58 | 0.50 | 0.71 | 0.72 | 0.55 | 0.50 | 0.83 | 0.86 | 0.87 | 0.82 | 0.66 | 0.83 | 0.82 | 0.90 | 0.60 | 0.92 | 0.90 |



Rolling Hour Summary

| Interval Start | Northbound SW Nyberg Ln |  |  |  | Southbound SW Nyberg Ln |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Time | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 7:00 AM | 20 | 3 | 32 | 0 | 13 | 2 | 252 | 0 | 77 | 488 | 19 | 0 | 35 | 744 | 13 | 1 | 1,698 | 1 | 3 | 0 | 2 |
| 7:15 AM | 17 | 2 | 33 | 0 | 11 | 3 | 247 | 0 | 88 | 572 | 21 | 0 | 33 | 740 | 15 | 0 | 1,782 | 0 | 3 | 0 | 2 |
| 7:30 AM | 14 | 3 | 35 | 0 | 9 | 5 | 223 | 0 | 98 | 597 | 21 | 0 | 33 | 721 | 23 | 0 | 1,782 | 0 | 3 | 0 | 2 |
| 7:45 AM | 14 | 6 | 28 | 0 | 13 | 6 | 229 | 0 | 107 | 577 | 20 | 1 | 35 | 712 | 24 | 0 | 1,771 | 0 | 3 | 1 | 4 |
| 8:00 AM | 17 | 6 | 28 | 0 | 10 | 7 | 208 | 0 | 103 | 524 | 18 | 1 | 41 | 716 | 23 | 0 | 1,701 | 0 | 2 | 1 | 2 |

Heavy Vehicle Summary

Out 13
In 11

SW Nyberg Ln \& SW Nyberg Rd
Wednesday, August 30, 2017
7:00 AM to 9:00 AM


Heavy Vehicle 5-Minute Interval Summary
7:00 AM to 9:00 AM

| $\begin{gathered} \hline \text { Interval } \\ \text { Start } \\ \text { Time } \\ \hline \end{gathered}$ | Northbound SW Nyberg Ln |  |  |  | Southbound SW Nyberg Ln |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 3 |
| 7:05 AM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 7:10 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 |
| 7:20 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 2 |
| 7:25 AM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 5 |
| 7:30 AM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 4 |
| 7:35 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 7:40 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 7:50 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 3 |
| 7:55 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 2 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 | 0 | 1 | 0 | 1 | 4 |
| 8:05 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 2 |
| 8:10 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 5 |
| 8:20 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 2 |
| 8:25 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 3 |
| 8:35 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 2 |
| 8:40 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 2 | 3 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 8:50 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 |  |
| 8:55 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 3 |
| Total Survey | 3 | 0 | 0 | 3 | 0 | 0 | 1 | 1 | 4 | 16 | 0 | 20 | 0 | 31 | 1 | 32 | 56 |

Heavy Vehicle 15-Minute Interval Summary
7:00 AM to 9:00 AM

| $\begin{gathered} \hline \text { Interval } \\ \text { Start } \\ \text { Time } \\ \hline \end{gathered}$ | Northbound SW Nyberg Ln |  |  |  | Southbound SW Nyberg Ln |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 7:00 AM | , | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 4 | 0 | 4 | 6 |
| 7:15 AM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 5 | 0 | 5 | 9 |
| 7:30 AM | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 5 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 3 | 1 | 4 | 6 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 4 | 0 | 2 | 0 | 2 | 6 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 4 | 0 | 5 | 0 | 3 | 0 | 3 | 9 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 6 | 0 | 6 | 8 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 4 | 0 | 4 | 7 |
| Total Surver | 3 | 0 | 0 | 3 | 0 | 0 | 1 | 1 | 4 | 16 | 0 | 20 | 0 | 31 | 1 | 32 | 56 |

Heavy Vehicle Peak Hour Summary
7:35 AM to 8:35 AM

| By <br> Approach | Northbound SW Nyberg Ln |  |  | Southbound SW Nyberg Ln |  |  | Eastbound SW Nyberg Rd |  |  | Westbound SW Nyberg Rd |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | In | Out | Total | In | Out | Total | In | Out | Total |  |
| Volume | 0 | 0 | 0 | 1 | 4 | 5 | 11 | 13 | 24 | 13 | 8 | 21 | 25 |
| PHF | 0.00 |  |  | 0.25 |  |  | 0.55 |  |  | 0.65 |  |  | 0.69 |


| By <br> Movement | Northbound SW Nyberg Ln |  |  |  | Southbound SW Nyberg Ln |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 8 | 0 | 11 | 0 | 12 | 1 | 13 | 25 |
| PHF | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.25 | 0.38 | 0.50 | 0.00 | 0.55 | 0.00 | 0.75 | 0.25 | 0.65 | 0.69 |

Heavy Vehicle Rolling Hour Summary
7:00 AM to 9:00 AM

| $\begin{gathered} \hline \text { Interval } \\ \text { Start } \\ \text { Time } \\ \hline \end{gathered}$ | Northbound SW Nyberg Ln |  |  |  | Southbound SW Nyberg Ln |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 7:00 AM | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 5 | 0 | 6 | 0 | 16 | 1 | 17 | 26 |
| 7:15 AM | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 7 | 0 | 9 | 0 | 14 | 1 | 15 | 26 |
| 7:30 AM | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 3 | 8 | 0 | 11 | 0 | 12 | 1 | 13 | 26 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 4 | 9 | 0 | 13 | 0 | 14 | 1 | 15 | 29 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 11 | 0 | 14 | 0 | 15 | 0 | 15 | 30 |




SW Nyberg Ln \& SW Nyberg Rd
Tuesday, August 29, 2017
4:00 PM to 6:00 PM

5-Minute Interval Summary
4:00 PM to 6:00 PM

| Interval Start Time | Northbound SW Nyberg Ln |  |  |  | Southbound SW Nyberg Ln |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 4:00 PM | 4 | 0 | 5 | 0 | 1 | 0 | 12 | 0 | 24 | 73 | 1 | 0 | 0 | 61 | 1 | 0 | 182 | 0 | 0 | 0 | 0 |
| 4:05 PM | 1 | 0 | 2 | 0 | 1 | 1 | 7 | 0 | 14 | 74 | 0 | 0 | 4 | 63 | 0 | 0 | 167 | 0 | 1 | 0 | 0 |
| 4:10 PM | 2 | 1 | 1 | 0 | 1 | 0 | 14 | 0 | 11 | 85 | 2 | 0 | 4 | 53 | 1 | 0 | 175 | 0 | 2 | 0 | 0 |
| 4:15 PM | 4 | 0 | 7 | 0 | 2 | 0 | 9 | 0 | 13 | 89 | 2 | 0 | 5 | 55 | 1 | 0 | 187 | 0 | 0 | 0 | 0 |
| 4:20 PM | 5 | 0 | 3 | 0 | 2 | 0 | 10 | 0 | 15 | 75 | 1 | 0 | 2 | 57 | 1 | 0 | 171 | 0 | 2 | 0 | 0 |
| 4:25 PM | 2 | 0 | 4 | 0 | 1 | 0 | 5 | 0 | 22 | 92 | 1 | 0 | 2 | 54 | 1 | 0 | 184 | 0 | 4 | 0 | 0 |
| 4:30 PM | 0 | 0 | 2 | 0 | 3 | 1 | 9 | 0 | 19 | 79 | 4 | 0 | 3 | 64 | 4 | 1 | 188 | 0 | 2 | 0 | 0 |
| 4:35 PM | 2 | 0 | 1 | 0 | 1 | 0 | 13 | 0 | 31 | 71 | 4 | 0 | 1 | 43 | 0 | 0 | 167 | 0 | 1 | 0 | 1 |
| 4:40 PM | 1 | 1 | 2 | 1 | 0 | 1 | 13 | 0 | 20 | 68 | 2 | 0 | 3 | 67 | 2 | 0 | 180 | 2 | 0 | 0 | 0 |
| 4:45 PM | 4 | 1 | 4 | 0 | 2 | 0 | 12 | 0 | 32 | 95 | 0 | 0 | 0 | 65 | 0 | 0 | 215 | 0 | 0 | 0 | 0 |
| 4:50 PM | 0 | 0 | 4 | 0 | 1 | 0 | 11 | 0 | 27 | 71 | 3 | 0 | 6 | 49 | 0 | 0 | 172 | 0 | 0 | 0 | 0 |
| 4:55 PM | 1 | 1 | 4 | 0 | 3 | 0 | 13 | 0 | 24 | 77 | 3 | 0 | 4 | 62 | 2 | 0 | 194 | 0 | 2 | 0 | 1 |
| 5:00 PM | 2 | 0 | 7 | 0 | 2 | 0 | 4 | 0 | 26 | 67 | 5 | 0 | 3 | 52 | 2 | 0 | 170 | 0 | 3 | 0 | 0 |
| 5:05 PM | 1 | 1 | 4 | 0 | 0 | 0 | 10 | 0 | 24 | 66 | 2 | 0 | 3 | 83 | 2 | 0 | 196 | 0 | 0 | 0 | 0 |
| 5:10 PM | 0 | 2 | 6 | 0 | 0 | 1 | 22 | 0 | 22 | 89 | 2 | 0 | 4 | 52 | 3 | 0 | 203 | 0 | 0 | 0 | 0 |
| 5:15 PM | 2 | 0 | 7 | 0 | 2 | 1 | 14 | 0 | 22 | 62 | 2 | 0 | 3 | 54 | 2 | 0 | 171 | 0 | 4 | 0 | 0 |
| 5:20 PM | 2 | 3 | 4 | 0 | 1 | 0 | 12 | 1 | 25 | 78 | 1 | 0 | 1 | 66 | 2 | 0 | 195 | 0 | 0 | 0 | 2 |
| 5:25 PM | 0 | 1 | 2 | 0 | 2 | 0 | 8 | 0 | 35 | 84 | 2 | 0 | 1 | 50 | 0 | 0 | 185 | 0 | 0 | 0 | 0 |
| 5:30 PM | 1 | 0 | 7 | 0 | 1 | 1 | 8 | 0 | 23 | 83 | 4 | 0 | 3 | 71 | 3 | 0 | 205 | 0 | 0 | 0 | 1 |
| 5:35 PM | 1 | 1 | 4 | 0 | 1 | 0 | 9 | 0 | 23 | 84 | 3 | 0 | 1 | 49 | 0 | 0 | 176 | 0 | 0 | 0 | 0 |
| 5:40 PM | 2 | 1 | 4 | 0 | 0 | 0 | 13 | 0 | 13 | 75 | 3 | 0 | 0 | 43 | 1 | 0 | 155 | 0 | 0 | 0 | 0 |
| 5:45 PM | 1 | 2 | 1 | 0 | 2 | 1 | 14 | 0 | 11 | 83 | 1 | 0 | 3 | 62 | 4 | 0 | 185 | 1 | 0 | 1 | 0 |
| 5:50 PM | 2 | 0 | 6 | 0 | 3 | 0 | 13 | 0 | 23 | 81 | 1 | 0 | 1 | 59 | 2 | 0 | 191 | 1 | 1 | 0 | 0 |
| 5:55 PM | 1 | 1 | 5 | 0 | 1 | 0 | 12 | 0 | 22 | 63 | 5 | 0 | 2 | 59 | 6 | 0 | 177 | 0 | 0 | 0 | 0 |
| Total Survey | 41 | 16 | 96 | 1 | 33 | 7 | 267 | 1 | 521 | 1,864 | 54 | 0 | 59 | 1,393 | 40 | 1 | 4,391 | 4 | 22 | 1 | 5 |

15-Minute Interval Summary
4:00 PM to 6:00 PM

| Interva Start Time | Northbound SW Nyberg Ln |  |  |  | Southbound SW Nyberg Ln |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 4:00 PM | 7 | 1 | 8 | 0 | 3 | 1 | 33 | 0 | 49 | 232 | 3 | 0 | 8 | 177 | 2 | 0 | 524 | 0 | 3 | 0 | 0 |
| 4:15 PM | 11 | 0 | 14 | 0 | 5 | 0 | 24 | 0 | 50 | 256 | 4 | 0 | 9 | 166 | 3 | 0 | 542 | 0 | 6 | 0 | 0 |
| 4:30 PM | 3 | 1 | 5 | 1 | 4 | 2 | 35 | 0 | 70 | 218 | 10 | 0 | 7 | 174 | 6 | 1 | 535 | 2 | 3 | 0 | 1 |
| 4:45 PM | 5 | 2 | 12 | 0 | 6 | 0 | 36 | 0 | 83 | 243 | 6 | 0 | 10 | 176 | 2 | 0 | 581 | 0 | 2 | 0 | 1 |
| 5:00 PM | 3 | 3 | 17 | 0 | 2 | 1 | 36 | 0 | 72 | 222 | 9 | 0 | 10 | 187 | 7 | 0 | 569 | 0 | 3 | 0 | 0 |
| 5:15 PM | 4 | 4 | 13 | 0 | 5 | 1 | 34 | 1 | 82 | 224 | 5 | 0 | 5 | 170 | 4 | 0 | 551 | 0 | 4 | 0 | 2 |
| 5:30 PM | 4 | 2 | 15 | 0 | 2 | 1 | 30 | 0 | 59 | 242 | 10 | 0 | 4 | 163 | 4 | 0 | 536 | 0 | 0 | 0 | 1 |
| 5:45 PM | 4 | 3 | 12 | 0 | 6 | 1 | 39 | 0 | 56 | 227 | 7 | 0 | 6 | 180 | 12 | 0 | 553 | 2 | 1 | 1 | 0 |
| Total Survey | 41 | 16 | 96 | 1 | 33 | 7 | 267 | 1 | 521 | 1,864 | 54 | 0 | 59 | 1,393 | 40 | 1 | 4,391 | 4 | 22 | 1 | 5 |

Peak Hour Summary
4:40 PM to 5:40 PM

| By <br> Approach | Northbound SW Nyberg Ln |  |  |  | Southbound SW Nyberg Ln |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | Bikes | In | Out | Total | Bikes | In | Out | Total | Bikes | In | Out | Total | Bikes |  |
| Volume | 81 | 65 | 146 | 1 | 155 | 332 | 487 | 1 | 1,256 | 871 | 2,127 | 0 | 770 | 994 | 1,764 | 0 | 2,262 |
| \%HV | 0.0\% |  |  |  | 0.0\% |  |  |  | 0.6\% |  |  |  | 1.7\% |  |  |  | 0.9\% |
| PHF | 0.78 |  |  |  | 0.73 |  |  |  | 0.92 |  |  |  | 0.90 |  |  |  | 0.97 |
| By <br> Movement | Northbound SW Nyberg Ln |  |  |  | Southbound SW Nyberg Ln |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Total |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| Volume | 15 | 11 | 55 | 81 | 15 | 4 | 136 | 155 | 303 | 924 | 29 | 1,256 | 32 | 720 | 18 | 770 | 2,262 |
| \%HV | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.6\% | 0.0\% | 1.7\% | 5.6\% | 1.7\% | 0.9\% |
| PHF | 0.75 | 0.55 | 0.81 | 0.78 | 0.63 | 0.50 | 0.71 | 0.73 | 0.91 | 0.92 | 0.66 | 0.92 | 0.62 | 0.91 | 0.64 | 0.90 | 0.97 |



Rolling Hour Summary
4:00 PM to 6:00 PM

| Interval Start <br> Time | Northbound SW Nyberg Ln |  |  |  | Southbound SW Nyberg Ln |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval <br> Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 4:00 PM | 26 | 4 | 39 | 1 | 18 | 3 | 128 | 0 | 252 | 949 | 23 | 0 | 34 | 693 | 13 | 1 | 2,182 | 2 | 14 | 0 | 2 |
| 4:15 PM | 22 | 6 | 48 | 1 | 17 | 3 | 131 | 0 | 275 | 939 | 29 | 0 | 36 | 703 | 18 | 1 | 2,227 | 2 | 14 | 0 | 2 |
| 4:30 PM | 15 | 10 | 47 | 1 | 17 | 4 | 141 | 1 | 307 | 907 | 30 | 0 | 32 | 707 | 19 | 1 | 2,236 | 2 | 12 | 0 | 4 |
| 4:45 PM | 16 | 11 | 57 | 0 | 15 | 3 | 136 | 1 | 296 | 931 | 30 | 0 | 29 | 696 | 17 | 0 | 2,237 | 0 | 9 | 0 | 4 |
| 5:00 PM | 15 | 12 | 57 | 0 | 15 | 4 | 139 | 1 | 269 | 915 | 31 | 0 | 25 | 700 | 27 | 0 | 2,209 | 2 | 8 | 1 | 3 |

Heavy Vehicle Summary

Out 12
In 7


Heavy Vehicle 5-Minute Interval Summary
4:00 PM to 6:00 PM

| Interval Start Time | Northbound SW Nyberg Ln |  |  |  | Southbound SW Nyberg Ln |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| 4:05 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:10 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| 4:20 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 2 |
| 4:25 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 3 |
| 4:35 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:40 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 3 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 |
| 4:50 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 |
| 4:55 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:05 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 5:10 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 5:20 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 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 | 0 | 0 | 0 | 2 | 1 | 3 | 3 |
| 5:35 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 2 |
| 5:40 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 3 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:50 PM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 3 | 0 | 3 | 0 | 1 | 0 | 1 | 6 |
| 5:55 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 4 |
| Total Survey | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 1 | 23 | 0 | 24 | 0 | 19 | 1 | 20 | 48 |

Heavy Vehicle 15-Minute Interval Summary 4:00 PM to 6:00 PM

| Interval Start Time | Northbound SW Nyberg Ln |  |  |  | Southbound SW Nyberg Ln |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 4 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 0 | 1 | 0 | , | 8 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 2 | 0 | 2 | 6 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 | 6 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 3 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 3 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 2 | 0 | 4 | 1 | 5 | 8 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 3 | 0 | 3 | 0 | 4 | 0 | 4 | 10 |
| Total Survey | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 1 | 23 | 0 | 24 | 0 | 19 | 1 | 20 | 48 |

Heavy Vehicle Peak Hour Summary
4:40 PM to 5:40 PM

| By <br> Approach | Northbound SW Nyberg Ln |  |  | Southbound SW Nyberg Ln |  |  | Eastbound SW Nyberg Rd |  |  | Westbound SW Nyberg Rd |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | In | Out | Total | In | Out | Total | In | Out | Total |  |
| Volume | 0 | 0 | 0 | 0 | 1 | 1 | 7 | 12 | 19 | 13 | 7 | 20 | 20 |
| PHF | 0.00 |  |  | 0.00 |  |  | 0.44 |  |  | 0.54 |  |  | 0.71 |


| By <br> Movement | Northbound SW Nyberg Ln |  |  |  | Southbound SW Nyberg Ln |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 0 | 12 | 1 | 13 | 20 |
| PHF | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.44 | 0.00 | 0.44 | 0.00 | 0.50 | 0.25 | 0.54 | 0.71 |

Heavy Vehicle Rolling Hour Summary
4:00 PM to 6:00 PM

| Interval Start Time | Northbound SW Nyberg Ln |  |  |  | Southbound SW Nyberg Ln |  |  |  | Eastbound SW Nyberg Rd |  |  |  | Westbound SW Nyberg Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 15 | 0 | 9 | 0 | 9 | 24 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 13 | 0 | 10 | 0 | 10 | 23 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 8 | 0 | 10 | 0 | 10 | 18 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 5 | 0 | 6 | 0 | 12 | 1 | 13 | 20 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 1 | 8 | 0 | 9 | 0 | 10 | 1 | 11 | 24 |




SW 65th Ave \& SW Borland Rd
Wednesday, August 30, 2017
7:00 AM to 9:00 AM

Out 45
Clay Carney (503) 833-2740

In 10
10

5-Minute Interval Summary
7:00 AM to 9:00 AM

| Interval Start | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Borland Rd |  |  |  | Westbound SW Borland Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Time | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  |
| 7:00 AM | 1 | 39 | 7 | 0 | 10 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 19 | 2 | 19 | 0 | 107 |
| 7:05 AM | 0 | 42 | 10 | 0 | 7 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 24 | 0 | 114 |
| 7:10 AM | 1 | 40 | 13 | 0 | 9 | 8 | 1 | 0 | 0 | 1 | 0 | 0 | 25 | 0 | 22 | 0 | 120 |
| 7:15 AM | 0 | 43 | 17 | 0 | 9 | 13 | 0 | 0 | 1 | 0 | 0 | 0 | 24 | 1 | 26 | 0 | 134 |
| 7:20 AM | 0 | 47 | 17 | 0 | 10 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 27 | 0 | 30 | 0 | 144 |
| 7:25 AM | 0 | 49 | 15 | 0 | 9 | 9 | 1 | 0 | 1 | 0 | 1 | 0 | 28 | 0 | 26 | 0 | 139 |
| 7:30 AM | 0 | 43 | 17 | 0 | 17 | 11 | 0 | 0 | 0 | 0 | 1 | 0 | 21 | 0 | 27 | 0 | 137 |
| 7:35 AM | 2 | 49 | 20 | 0 | 6 | 18 | 2 | 1 | 0 | 0 | 0 | 0 | 30 | 2 | 34 | 0 | 163 |
| 7:40 AM | 1 | 42 | 22 | 0 | 11 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 25 | 1 | 29 | 0 | 146 |
| 7:45 AM | 0 | 38 | 15 | 0 | 20 | 12 | 3 | 0 | 1 | 2 | 0 | 0 | 26 | 0 | 42 | 0 | 159 |
| 7:50 AM | 1 | 46 | 18 | 0 | 15 | 21 | 2 | 0 | 0 | 0 | 0 | 0 | 24 | 1 | 41 | 0 | 169 |
| 7:55 AM | 2 | 29 | 18 | 0 | 15 | 20 | 4 | 0 | 0 | 2 | 0 | 0 | 32 | 0 | 31 | 0 | 153 |
| 8:00 AM | 2 | 38 | 21 | 0 | 21 | 16 | 1 | 0 | 0 | 0 | 0 | 0 | 27 | 2 | 24 | 0 | 152 |
| 8:05 AM | 1 | 43 | 17 | 0 | 20 | 27 | 2 | 0 | 0 | 0 | 0 | 0 | 29 | 0 | 30 | 0 | 169 |
| 8:10 AM | 0 | 31 | 19 | 0 | 25 | 24 | 1 | 1 | 0 | 0 | 1 | 0 | 24 | 1 | 32 | 0 | 158 |
| 8:15 AM | 0 | 29 | 22 | 0 | 16 | 22 | 0 | 0 | 1 | 0 | 0 | 0 | 23 | 0 | 42 | 0 | 155 |
| 8:20 AM | 1 | 33 | 20 | 0 | 18 | 18 | 2 | 0 | 1 | 1 | 0 | 0 | 19 | 0 | 34 | 0 | 147 |
| 8:25 AM | 1 | 29 | 18 | 0 | 24 | 24 | 3 | 0 | 0 | 0 | 0 | 0 | 16 | 2 | 28 | 0 | 145 |
| 8:30 AM | 2 | 39 | 20 | 0 | 17 | 18 | 2 | 0 | 0 | 1 | 0 | 0 | 24 | 0 | 36 | 0 | 159 |
| 8:35 AM | 2 | 33 | 18 | 0 | 22 | 11 | 0 | 0 | 0 | 0 | 1 | 0 | 19 | 1 | 39 | 1 | 146 |
| 8:40 AM | 1 | 24 | 20 | 0 | 16 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 20 | 1 | 22 | 0 | 115 |
| 8:45 AM | 1 | 26 | 17 | 0 | 20 | 18 | 2 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 25 | 0 | 125 |
| 8:50 AM | 1 | 30 | 17 | 0 | 21 | 16 | 1 | 0 | 1 | 0 | 0 | 0 | 20 | 0 | 33 | 0 | 140 |
| 8:55 AM | 0 | 35 | 17 | 0 | 14 | 15 | 0 | 0 | 0 | 2 | 0 | 0 | 16 | 1 | 22 | 0 | 122 |
| Total Survey | 20 | 897 | 415 | 0 | 372 | 377 | 34 | 2 | 6 | 9 | 4 | 0 | 551 | 15 | 718 | 1 | 3,418 |


| Pedestrians <br> Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: |
| North | South | East | West |
| 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 1 |
| 0 | 0 | 1 | 2 |
| 0 | 1 | 0 | 0 |
| 1 | 0 | 0 | 0 |
| 0 | 0 | 0 | 2 |
| 2 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 2 | 0 |
| 0 | 0 | 0 | 0 |
| 1 | 0 | 1 | 0 |
| 1 | 0 | 0 | 0 |
| 0 | 0 | 1 | 2 |
| 0 | 1 | 0 | 0 |
| 1 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 |
| 1 | 0 | 1 | 0 |
| 0 | 0 | 0 | 2 |
| 0 | 0 | 2 | 0 |
| 1 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 |
| 0 | 0 | 0 | 1 |
| 12 | 2 | 9 | 11 |

15-Minute Interval Summary
7:00 AM to 9:00 AM

| Interval Start Time | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | EastboundSW Borland Rd |  |  |  | Westbound SW Borland Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  |
| 7:00 AM | 2 | 121 | 30 | 0 | 26 | 29 | 4 | 0 | 0 | 1 | 0 | 0 | 61 | 2 | 65 | 0 | 341 |
| 7:15 AM | 0 | 139 | 49 | 0 | 28 | 33 | 3 | 0 | 2 | 0 | 1 | 0 | 79 | 1 | 82 | 0 | 417 |
| 7:30 AM | 3 | 134 | 59 | 0 | 34 | 43 | 3 | 1 | 0 | 0 | 1 | 0 | 76 | 3 | 90 | 0 | 446 |
| 7:45 AM | 3 | 113 | 51 | 0 | 50 | 53 | 9 | 0 | 1 | 4 | 0 | 0 | 82 | 1 | 114 | 0 | 481 |
| 8:00 AM | 3 | 112 | 57 | 0 | 66 | 67 | 4 | 1 | 0 | 0 | 1 | 0 | 80 | 3 | 86 | 0 | 479 |
| 8:15 AM | 2 | 91 | 60 | 0 | 58 | 64 | 5 | 0 | 2 | 1 | 0 | 0 | 58 | 2 | 104 | 0 | 447 |
| 8:30 AM | 5 | 96 | 58 | 0 | 55 | 39 | 3 | 0 | 0 | 1 | 1 | 0 | 63 | 2 | 97 | 1 | 420 |
| 8:45 AM | 2 | 91 | 51 | 0 | 55 | 49 | 3 | 0 | 1 | 2 | 0 | 0 | 52 | 1 | 80 | 0 | 387 |
| Total Survey | 20 | 897 | 415 | 0 | 372 | 377 | 34 | 2 | 6 | 9 | 4 | 0 | 551 | 15 | 718 | 1 | 3,418 |


| Pedestrians <br> Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: |
| North | South | East | West |
| 2 | 0 | 1 | 3 |
| 1 | 1 | 0 | 2 |
| 2 | 0 | 2 | 0 |
| 2 | 0 | 1 | 0 |
| 1 | 1 | 1 | 3 |
| 1 | 0 | 1 | 2 |
| 3 | 0 | 2 | 0 |
| 0 | 0 | 1 | 1 |
| 12 | 2 | 9 | 11 |

Peak Hour Summary
7:35 AM to 8:35 AM

| By | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Borland Rd |  |  |  | Westbound SW Borland Rd |  |  |  | Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | Bikes | In | Out | Total | Bikes | In | Out | Total | Bikes | In | Out | Total | Bikes |  | North | South | East | West |
| Volume | 689 | 534 | 1,223 | 0 | 465 | 852 | 1,317 | 2 | 10 | 45 | 55 | 0 | 711 | 444 | 1,155 | 0 | 1,875 | 4 | 1 | 7 | 5 |
| \%HV | 3.5\% |  |  |  | 5.8\% |  |  |  | 0.0\% |  |  |  | 2.4\% |  |  |  | 3.6\% |  |  |  |  |
| PHF | 0.91 |  |  |  | 0.85 |  |  |  | 0.50 |  |  |  | 0.90 |  |  |  | 0.97 |  |  |  |  |
| By Movement |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Borland Rd |  |  |  | Westbound SW Borland Rd |  |  |  | Total |  |  |  |  |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |  |  |  |  |
| Volume | 13 | 446 | 230 | 689 | 208 | 234 | 23 | 465 | 3 | 6 | 1 | 10 | 299 | 9 | 403 | 711 | 1,875 |  |  |  |  |
| \%HV | 0.0\% | 2.2\% | 6.1\% | 3.5\% | 4.8\% | 7.3\% | 0.0\% | 5.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.0\% | 0.0\% | 2.0\% | 2.4\% | 3.6\% |  |  |  |  |
| PHF | 0.65 | 0.86 | 0.94 | 0.91 | 0.79 | 0.80 | 0.64 | 0.85 | 0.38 | 0.38 | 0.25 | 0.50 | 0.85 | 0.75 | 0.88 | 0.90 | 0.97 |  |  |  |  |

## Rolling Hour Summary

7:00 AM to 9:00 AM

| Interval Start <br> Time | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Borland Rd |  |  |  | Westbound SW Borland Rd |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 7:00 AM | 8 | 507 | 189 | 0 | 138 | 158 | 19 | 1 | 3 | 5 | 2 | 0 | 298 | 7 | 351 | 0 | 1,685 | 7 | 1 | 4 | 5 |
| 7:15 AM | 9 | 498 | 216 | 0 | 178 | 196 | 19 | 2 | 3 | 4 | 3 | 0 | 317 | 8 | 372 | 0 | 1,823 | 6 | 2 | 4 | 5 |
| 7:30 AM | 11 | 450 | 227 | 0 | 208 | 227 | 21 | 2 | 3 | 5 | 2 | 0 | 296 | 9 | 394 | 0 | 1,853 | 6 | 1 | 5 | 5 |
| 7:45 AM | 13 | 412 | 226 | 0 | 229 | 223 | 21 | 1 | 3 | 6 | 2 | 0 | 283 | 8 | 401 | 1 | 1,827 | 7 | 1 | 5 | 5 |
| 8:00 AM | 12 | 390 | 226 | 0 | 234 | 219 | 15 | 1 | 3 | 4 | 2 | 0 | 253 | 8 | 367 | 1 | 1,733 | 5 | 1 | 5 | 6 |

Out 0
In 0

SW 65th Ave \& SW Borland Rd
Wednesday, August 30, 2017
7:00 AM to 9:00 AM


Heavy Vehicle 5-Minute Interval Summary
7:00 AM to 9:00 AM

| $\begin{gathered} \hline \text { Interval } \\ \text { Start } \\ \text { Time } \\ \hline \end{gathered}$ | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | EastboundSW Borland Rd |  |  |  | Westbound SW Borland Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 7:00 AM | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 4 |
| 7:05 AM | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 7:10 AM | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 4 |
| 7:15 AM | 0 | 2 | 1 | 3 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 7:20 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 |
| 7:25 AM | 0 | 2 | 0 | 2 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 7 |
| 7:30 AM | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 7:35 AM | 0 | 0 | 2 | 2 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 6 |
| 7:40 AM | 0 | 0 | 2 | 2 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 8 |
| 7:45 AM | 0 | 1 | 1 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 7:50 AM | 0 | 1 | 2 | 3 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 7 |
| 7:55 AM | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 4 |
| 8:00 AM | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 5 |
| 8:05 AM | 0 | 1 | 1 | 2 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 8 |
| 8:10 AM | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 4 |
| 8:15 AM | 0 | 2 | 1 | 3 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 6 |
| 8:20 AM | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 |
| 8:25 AM | 0 | 1 | 2 | 3 | 2 | 4 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 8:30 AM | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 5 |
| 8:35 AM | 0 | 2 | 1 | 3 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 7 |
| 8:40 AM | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 4 |
| 8:45 AM | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 6 |
| 8:50 AM | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 |  |
| 8:55 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Survey | 0 | 21 | 21 | 42 | 18 | 24 | 0 | 42 | 0 | 0 | 0 | 0 | 17 | 0 | 17 | 34 | 118 |

Heavy Vehicle 15-Minute Interval Summary
7:00 AM to 9:00 AM

| $\begin{gathered} \hline \text { Interval } \\ \text { Start } \\ \text { Time } \\ \hline \end{gathered}$ | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | EastboundSW Borland Rd |  |  |  | Westbound SW Borland Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 7:00 AM | 0 | 3 | 1 | 4 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 4 | 10 |
| 7:15 AM | 0 | 5 | 1 | 6 | 3 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 4 | 14 |
| 7:30 AM | 0 | 0 | 5 | 5 | 5 | 3 | 0 | 8 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 4 | 17 |
| 7:45 AM | 0 | 3 | 4 | 7 | 1 | 4 | 0 | 5 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 14 |
| 8:00 AM | 0 | 2 | 3 | 5 | 3 | 3 | 0 | 6 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 6 | 17 |
| 8:15 AM | 0 | 3 | 3 | 6 | 2 | 7 | 0 | 9 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 3 | 18 |
| 8:30 AM | 0 | 4 | 3 | 7 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 6 | 16 |
| 8:45 AM | 0 | 1 | 1 | 2 | 2 | 3 | 0 | 5 | 0 | 0 | 0 | 0 | 3 | 0 | 2 | 5 | 12 |
| Total Surver | 0 | 21 | 21 | 42 | 18 | 24 | 0 | 42 | 0 | 0 | 0 | 0 | 17 | 0 | 17 | 34 | 118 |

Heavy Vehicle Peak Hour Summary
7:35 AM to 8:35 AM

| By <br> Approach | Northbound SW 65th Ave |  |  | Southbound SW 65th Ave |  |  | EastboundSW Borland Rd |  |  | Westbound SW Borland Rd |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | In | Out | Total | In | Out | Total | In | Out | Total |  |
| Volume | 24 | 26 | 50 | 27 | 18 | 45 | 0 | 0 | 0 | 17 | 24 | 41 | 68 |
| PHF | 0.86 |  |  | 0.75 |  |  | 0.00 |  |  | 0.71 |  |  | 0.94 |


| By <br> Movement | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Borland Rd |  |  |  | Westbound SW Borland Rd |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| Volume | 0 | 10 | 14 | 24 | 10 | 17 | 0 | 27 | 0 | 0 | 0 | 0 | 9 | 0 | 8 | 17 | 68 |
| PHF | 0.00 | 0.83 | 0.70 | 0.86 | 0.63 | 0.61 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.56 | 0.00 | 0.67 | 0.71 | 0.94 |

Heavy Vehicle Rolling Hour Summary
7:00 AM to 9:00 AM

| Interval Start <br> Time | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Borland Rd |  |  |  | Westbound SW Borland Rd |  |  |  | Interval <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 7:00 AM | 0 | 11 | 11 | 22 | 9 | 10 | 0 | 19 | 0 | 0 | 0 | 0 | 6 | 0 | 8 | 14 | 55 |
| 7:15 AM | 0 | 10 | 13 | 23 | 12 | 11 | 0 | 23 | 0 | 0 | 0 | 0 | 7 | 0 | 9 | 16 | 62 |
| 7:30 AM | 0 | 8 | 15 | 23 | 11 | 17 | 0 | 28 | 0 | 0 | 0 | 0 | 7 | 0 | 8 | 15 | 66 |
| 7:45 AM | 0 | 12 | 13 | 25 | 8 | 15 | 0 | 23 | 0 | 0 | 0 | 0 | 9 | 0 | 8 | 17 | 65 |
| 8:00 AM | 0 | 10 | 10 | 20 | 9 | 14 | 0 | 23 | 0 | 0 | 0 | 0 | 11 | 0 | 9 | 20 | 63 |



Total Vehicle Summary
$\underbrace{\text { All Traffic Data }}_{\substack{\text { Clay Carney } \\(503) 833-2740}}$ Serne

SW 65th Ave \& SW Borland Rd
Tuesday, August 29, 2017
4:00 PM to 6:00 PM

Out 35
In 67


5-Minute Interval Summary
4:00 PM to 6:00 PM

| $\begin{gathered} \hline \text { Interval } \\ \text { Start } \\ \text { Time } \\ \hline \end{gathered}$ | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | EastboundSW Borland Rd |  |  |  | Westbound SW Borland Rd |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 4:00 PM | 0 | 20 | 20 | 0 | 29 | 35 | 4 | 0 | 2 | 0 | 1 | 0 | 21 | 0 | 19 | 0 | 151 | 0 | 0 | 0 | 1 |
| 4:05 PM | 0 | 20 | 26 | 0 | 34 | 31 | 2 | 0 | 4 | 2 | 0 | 0 | 19 | 0 | 17 | 0 | 155 | 0 | 0 | 1 | 0 |
| 4:10 PM | 0 | 17 | 32 | 0 | 34 | 40 | 3 | 0 | 3 | 1 | 0 | 0 | 18 | 1 | 22 | 0 | 171 | 1 | 0 | 0 | 0 |
| 4:15 PM | 1 | 25 | 26 | 0 | 44 | 42 | 0 | 2 | 2 | 4 | 2 | 0 | 22 | 2 | 26 | 0 | 196 | 0 | 1 | 0 | 0 |
| 4:20 PM | 0 | 25 | 36 | 0 | 36 | 41 | 2 | 0 | 0 | 1 | 1 | 0 | 26 | 2 | 16 | 0 | 186 | 1 | 0 | 1 | 0 |
| 4:25 PM | 0 | 18 | 31 | 0 | 37 | 37 | 5 | 0 | 2 | 2 | 1 | 0 | 20 | 2 | 19 | 0 | 174 | 0 | 0 | 0 | 1 |
| 4:30 PM | 0 | 19 | 29 | 1 | 31 | 39 | 1 | 0 | 5 | 3 | 0 | 0 | 19 | 0 | 24 | 0 | 170 | 0 | 0 | 0 | 1 |
| 4:35 PM | 1 | 23 | 34 | 0 | 36 | 42 | 0 | 0 | 1 | 2 | 0 | 0 | 18 | 1 | 21 | 0 | 179 | 3 | 1 | 0 | 0 |
| 4:40 PM | 0 | 26 | 32 | 0 | 42 | 29 | 2 | 0 | 2 | 0 | 1 | 0 | 15 | 2 | 16 | 0 | 167 | 0 | 1 | 2 | 1 |
| 4:45 PM | 2 | 18 | 23 | 0 | 41 | 42 | 3 | 0 | 3 | 1 | 0 | 0 | 25 | 0 | 18 | 0 | 176 | 0 | 0 | 1 | 0 |
| 4:50 PM | 0 | 19 | 29 | 0 | 40 | 36 | 0 | 0 | 2 | 4 | 2 | 0 | 26 | 0 | 22 | 0 | 180 | 1 | 0 | 0 | 0 |
| 4:55 PM | 0 | 20 | 28 | 0 | 41 | 36 | 2 | 0 | 5 | 2 | 0 | 0 | 16 | 0 | 17 | 0 | 167 | 0 | 0 | 0 | 2 |
| 5:00 PM | 0 | 15 | 39 | 0 | 27 | 32 | 1 | 0 | 6 | 3 | 1 | 0 | 21 | 2 | 26 | 0 | 173 | 2 | 0 | 0 | 1 |
| 5:05 PM | 0 | 19 | 29 | 0 | 34 | 28 | 0 | 0 | 2 | 2 | 0 | 0 | 19 | 1 | 23 | 0 | 157 | 0 | 2 | 1 | 0 |
| 5:10 PM | 1 | 22 | 36 | 1 | 29 | 43 | 2 | 0 | 4 | 1 | 0 | 0 | 23 | 0 | 26 | 0 | 187 | 0 | 0 | 0 | 0 |
| 5:15 PM | 1 | 17 | 24 | 0 | 35 | 41 | 4 | 0 | 1 | 4 | 1 | 0 | 27 | 0 | 21 | 0 | 176 | , | 1 | 0 | 0 |
| 5:20 PM | 0 | 24 | 37 | 0 | 26 | 40 | 0 | 0 | 2 | 2 | 0 | 0 | 21 | 0 | 16 | 0 | 168 | 0 | 0 | 0 | 1 |
| 5:25 PM | 1 | 30 | 33 | 0 | 41 | 37 | 2 | 0 | 3 | 3 | 2 | 0 | 26 | 0 | 12 | 0 | 190 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 17 | 38 | 0 | 34 | 43 | 1 | 0 | 2 | 2 | 0 | 0 | 18 | 2 | 17 | 0 | 174 | 0 | 0 | 1 | 2 |
| 5:35 PM | 0 | 27 | 30 | 0 | 28 | 36 | 4 | 0 | 1 | 1 | 1 | 0 | 16 | 0 | 23 | 0 | 167 | 1 | 0 | 0 | 0 |
| 5:40 PM | 2 | 23 | 39 | 0 | 33 | 29 | 2 | 0 | 4 | 2 | 0 | 0 | 28 | 0 | 25 | 0 | 187 | 0 | 0 | 1 | 1 |
| 5:45 PM | 1 | 18 | 20 | 0 | 29 | 27 | 3 | 0 | 2 | 0 | 0 | 0 | 21 | 1 | 18 | 0 | 140 | 0 | 0 | 0 | 0 |
| 5:50 PM | 0 | 18 | 26 | 0 | 34 | 33 | 2 | 0 | 1 | 2 | 0 | 0 | 16 | 0 | 27 | 0 | 159 | 0 | 1 | 0 | 0 |
| 5:55 PM | 1 | 16 | 28 | 0 | 36 | 26 | 1 | 0 | 2 | 1 | 1 | 0 | 26 | 0 | 15 | 0 | 153 | 1 | 0 | 0 | 0 |
| Total Survey | 11 | 496 | 725 | 2 | 831 | 865 | 46 | 2 | 61 | 45 | 14 | 0 | 507 | 16 | 486 | 0 | 4,103 | 11 | 7 | 8 | 11 |

15-Minute Interval Summary
4:00 PM to 6:00 PM

| Interval Start Time | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Borland Rd |  |  |  | Westbound SW Borland Rd |  |  |  | Interval <br> Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 4:00 PM | 0 | 57 | 78 | 0 | 97 | 106 | 9 | 0 | 9 | 3 | 1 | 0 | 58 | 1 | 58 | 0 | 477 | 1 | 0 | 1 | 1 |
| 4:15 PM | 1 | 68 | 93 | 0 | 117 | 120 | 7 | 2 | 4 | 7 | 4 | 0 | 68 | 6 | 61 | 0 | 556 | 1 | 1 | 1 | 1 |
| 4:30 PM | 1 | 68 | 95 | 1 | 109 | 110 | 3 | 0 | 8 | 5 | 1 | 0 | 52 | 3 | 61 | 0 | 516 | 3 | 2 | 2 | 2 |
| 4:45 PM | 2 | 57 | 80 | 0 | 122 | 114 | 5 | 0 | 10 | 7 | 2 | 0 | 67 | 0 | 57 | 0 | 523 | 1 | 0 | 1 | 2 |
| 5:00 PM | 1 | 56 | 104 | 1 | 90 | 103 | 3 | 0 | 12 | 6 | 1 | 0 | 63 | 3 | 75 | 0 | 517 | 2 | 2 | 1 | 1 |
| 5:15 PM | 2 | 71 | 94 | 0 | 102 | 118 | 6 | 0 | 6 | 9 | 3 | 0 | 74 | 0 | 49 | 0 | 534 | 1 | 1 | 0 | 1 |
| 5:30 PM | 2 | 67 | 107 | 0 | 95 | 108 | 7 | 0 | 7 | 5 | 1 | 0 | 62 | 2 | 65 | 0 | 528 | 1 | 0 | 2 | 3 |
| 5:45 PM | 2 | 52 | 74 | 0 | 99 | 86 | 6 | 0 | 5 | 3 | 1 | 0 | 63 | 1 | 60 | 0 | 452 | 1 | 1 | 0 | 0 |
| Total Survey | 11 | 496 | 725 | 2 | 831 | 865 | 46 | 2 | 61 | 45 | 14 | 0 | 507 | 16 | 486 | 0 | 4,103 | 11 | 7 | 8 | 11 |

Peak Hour Summary
4:15 PM to 5:15 PM

| By | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | EastboundSW Borland Rd |  |  |  | Westbound SW Borland Rd |  |  |  | Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | Bikes | In | Out | Total | Bikes | In | Out | Total | Bikes | In | Out | Total | Bikes |  | North | South | East | West |
| Volume | 626 | 705 | 1,331 | 2 | 903 | 537 | 1,440 | 2 | 67 | 35 | 102 | 0 | 516 | 835 | 1,351 | 0 | 2,112 | 7 | 5 | 5 | 6 |
| \%HV | 3.8\% |  |  |  | 2.5\% |  |  |  | 1.5\% |  |  |  | 3.7\% |  |  |  | 3.2\% |  |  |  |  |
| PHF | 0.95 |  |  |  | 0.93 |  |  |  | 0.67 |  |  |  | 0.91 |  |  |  | 0.95 |  |  |  |  |
| ByMovement |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Borland Rd |  |  |  | Westbound SW Borland Rd |  |  |  | Total |  |  |  |  |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |  |  |  |  |
| Volume | 5 | 249 | 372 | 626 | 438 | 447 | 18 | 903 | 34 | 25 | 8 | 67 | 250 | 12 | 254 | 516 | 2,112 |  |  |  |  |
| \%HV | 0.0\% | 5.6\% | 2.7\% | 3.8\% | 1.6\% | 3.1\% | 11.1\% | 2.5\% | 2.9\% | 0.0\% | 0.0\% | 1.5\% | 4.0\% | 0.0\% | 3.5\% | 3.7\% | 3.2\% |  |  |  |  |
| PHF | 0.42 | 0.92 | 0.89 | 0.95 | 0.89 | 0.93 | 0.56 | 0.93 | 0.65 | 0.69 | 0.50 | 0.67 | 0.92 | 0.50 | 0.85 | 0.91 | 0.95 |  |  |  |  |

Rolling Hour Summary
4:00 PM to 6:00 PM

| Interval Start | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Borland Rd |  |  |  | Westbound SW Borland Rd |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Time | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 4:00 PM | 4 | 250 | 346 | 1 | 445 | 450 | 24 | 2 | 31 | 22 | 8 | 0 | 245 | 10 | 237 | 0 | 2,072 | 6 | 3 | 5 | 6 |
| 4:15 PM | 5 | 249 | 372 | 2 | 438 | 447 | 18 | 2 | 34 | 25 | 8 | 0 | 250 | 12 | 254 | 0 | 2,112 | 7 | 5 | 5 | 6 |
| 4:30 PM | 6 | 252 | 373 | 2 | 423 | 445 | 17 | 0 | 36 | 27 | 7 | 0 | 256 | 6 | 242 | 0 | 2,090 | 7 | 5 | 4 | 6 |
| 4:45 PM | 7 | 251 | 385 | 1 | 409 | 443 | 21 | 0 | 35 | 27 | 7 | 0 | 266 | 5 | 246 | 0 | 2,102 | 5 | 3 | 4 | 7 |
| 5:00 PM | 7 | 246 | 379 | 1 | 386 | 415 | 22 | 0 | 30 | 23 | 6 | 0 | 262 | 6 | 249 | 0 | 2,031 | 5 | 4 | 3 | 5 |

Out 2
In 1


Heavy Vehicle 5-Minute Interval Summary
4:00 PM to 6:00 PM

| $\begin{gathered} \hline \text { Interval } \\ \text { Start } \\ \text { Time } \\ \hline \end{gathered}$ | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Borland Rd |  |  |  | Westbound SW Borland Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 4:00 PM | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 4 |
| 4:05 PM | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 4:10 PM | 0 | 0 | 2 | 2 | 1 | 3 | 0 | 4 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 8 |
| 4:15 PM | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 5 |
| 4:20 PM | 0 | 2 | 1 | 3 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 6 |
| 4:25 PM | 0 | 2 | 2 | 4 | 0 | 2 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 8 |
| 4:30 PM | 0 | 1 | 2 | 3 | 0 | 2 | 0 | 2 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |  | 7 |
| 4:35 PM | 0 | 1 | 1 | 2 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 6 |
| 4:40 PM | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 3 | 5 |
| 4:45 PM | 0 | 2 | 1 | 3 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 5 |
| 4:50 PM | 0 | 1 | 1 | 2 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 7 |
| 4:55 PM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:00 PM | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 6 |
| 5:05 PM | 0 | 1 | 2 | 3 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 5 |
| 5:10 PM | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 4 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 6 |
| 5:15 PM | 0 | 1 | 1 | 2 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 5:20 PM | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 5:25 PM | 0 | 2 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:30 PM | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 5:35 PM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:40 PM | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |  | 3 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:50 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| 5:55 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Survey | 0 | 21 | 18 | 39 | 11 | 24 | 2 | 37 | 1 | 0 | 0 | 1 | 12 | 0 | 13 | 25 | 102 |

Heavy Vehicle 15-Minute Interval Summary 4:00 PM to 6:00 PM

| $\begin{gathered} \hline \text { Interval } \\ \text { Start } \\ \text { Time } \\ \hline \end{gathered}$ | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | EastboundSW Borland Rd |  |  |  | Westbound SW Borland Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 4:00 PM | 0 | 2 | 3 | 5 | 1 | 6 | 0 | 7 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 15 |
| 4:15 PM | 0 | 5 | 3 | 8 | 2 | 3 | 1 | 6 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 5 | 19 |
| 4:30 PM | 0 | 4 | 3 | 7 | 1 | 4 | 0 | 5 | 1 | 0 | 0 | 1 | 4 | 0 | 1 | 5 | 18 |
| 4:45 PM | 0 | 3 | 2 | 5 | 3 | 2 | 0 | 5 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 13 |
| 5:00 PM | 0 | 2 | 2 | 4 | 1 | 5 | 1 | 7 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 6 | 17 |
| 5:15 PM | 0 | 3 | 4 | 7 | 2 | 3 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 5:30 PM | 0 | 1 | 1 | 2 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 6 |
| 5:45 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| Total Surver | 0 | 21 | 18 | 39 | 11 | 24 | 2 | 37 | 1 | 0 | 0 | 1 | 12 | 0 | 13 | 25 | 102 |

Heavy Vehicle Peak Hour Summary
4:15 PM to 5:15 PM

| By <br> Approach | Northbound SW 65th Ave |  |  | Southbound SW 65th Ave |  |  | EastboundSW Borland Rd |  |  | WestboundSW Borland Rd |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | In | Out | Total | In | Out | Total | In | Out | Total |  |
| Volume | 24 | 24 | 48 | 23 | 24 | 47 | 1 | 2 | 3 | 19 | 17 | 36 | 67 |
| PHF | 0.60 |  |  | 0.72 |  |  | 0.25 |  |  | 0.79 |  |  | 0.80 |


| By <br> Movement | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Borland Rd |  |  |  | Westbound SW Borland Rd |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| Volume | 0 | 14 | 10 | 24 | 7 | 14 | 2 | 23 | 1 | 0 | 0 | 1 | 10 | 0 | 9 | 19 | 67 |
| PHF | 0.00 | 0.70 | 0.50 | 0.60 | 0.58 | 0.58 | 0.50 | 0.72 | 0.25 | 0.00 | 0.00 | 0.25 | 0.63 | 0.00 | 0.56 | 0.79 | 0.80 |

Heavy Vehicle Rolling Hour Summary
4:00 PM to 6:00 PM

| Interval Start Time | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Borland Rd |  |  |  | Westbound SW Borland Rd |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 4:00 PM | 0 | 14 | 11 | 25 | 7 | 15 | 1 | 23 | 1 | 0 | 0 | 1 | 8 | 0 | 8 | 16 | 65 |
| 4:15 PM | 0 | 14 | 10 | 24 | 7 | 14 | 2 | 23 | 1 | 0 | 0 | 1 | 10 | 0 | 9 | 19 | 67 |
| 4:30 PM | 0 | 12 | 11 | 23 | 7 | 14 | 1 | 22 | 1 | 0 | 0 | 1 | 8 | 0 | 6 | 14 | 60 |
| 4:45 PM | 0 | 9 | 9 | 18 | 7 | 11 | 1 | 19 | 0 | 0 | 0 | 0 | 5 | 0 | 6 | 11 | 48 |
| 5:00 PM | 0 | 7 | 7 | 14 | 4 | 9 | 1 | 14 | 0 | 0 | 0 | 0 | 4 | 0 | 5 | 9 | 37 |



SW 65th Ave \& SW Sagert St
Wednesday, April 06, 2016
7:00 AM to 9:00 AM


5-Minute Interval Summary
7:00 AM to 9:00 AM

| Interval Start Time | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Sagert St |  |  |  | Westbound SW Sagert St |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  |
| 7:00 AM | 6 | 24 | 0 | 0 | 1 | 6 | 24 | 0 | 22 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 85 |
| 7:05 AM | 3 | 34 | 0 | 0 | 0 | 0 | 23 | 0 | 13 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 77 |
| 7:10 AM | 5 | 32 | 0 | 0 | 0 | 11 | 25 | 0 | 28 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 103 |
| 7:15 AM | 6 | 37 | 0 | 0 | 0 | 8 | 21 | 0 | 31 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 105 |
| 7:20 AM | 11 | 34 | 1 | 0 | 0 | 10 | 20 | 0 | 29 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 107 |
| 7:25 AM | 6 | 30 | 1 | 0 | 0 | 5 | 34 | 0 | 26 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 106 |
| 7:30 AM | 9 | 27 | 1 | 0 | 1 | 5 | 35 | 0 | 36 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 120 |
| 7:35 AM | 7 | 37 | 1 | 0 | 0 | 15 | 31 | 0 | 26 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 120 |
| 7:40 AM | 11 | 34 | 0 | 0 | 1 | 14 | 32 | 0 | 20 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 115 |
| 7:45 AM | 8 | 30 | 0 | 0 | 0 | 17 | 28 | 0 | 34 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 119 |
| 7:50 AM | 9 | 29 | 0 | 0 | 2 | 10 | 33 | 0 | 30 | 0 | 6 | 1 | 0 | 0 | 1 | 0 | 120 |
| 7:55 AM | 11 | 21 | 1 | 0 | 2 | 10 | 33 | 0 | 38 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 119 |
| 8:00 AM | 11 | 30 | 2 | 0 | 1 | 7 | 33 | 0 | 23 | 0 | 7 | 0 | 0 | 0 | 1 | 0 | 115 |
| 8:05 AM | 13 | 15 | 0 | 0 | 1 | 8 | 33 | 0 | 33 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 116 |
| 8:10 AM | 9 | 13 | 0 | 0 | 2 | 16 | 33 | 0 | 34 | 0 | 9 | 0 | 0 | 0 | 1 | 0 | 117 |
| 8:15 AM | 6 | 21 | 1 | 0 | 0 | 7 | 33 | 0 | 31 | 0 | 10 | 0 | 0 | 2 | 0 | 0 | 111 |
| 8:20 AM | 6 | 14 | 0 | 0 | 0 | 9 | 37 | 0 | 30 | 0 | 7 | 0 | 0 | 0 | 1 | 0 | 104 |
| 8:25 AM | 9 | 16 | 0 | 0 | 1 | 6 | 34 | 0 | 16 | 1 | 5 | 0 | 0 | 0 | 1 | 0 | 89 |
| 8:30 AM | 3 | 25 | 0 | 0 | 0 | 4 | 24 | 0 | 21 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 80 |
| 8:35 AM | 6 | 22 | 0 | 0 | 0 | 5 | 23 | 0 | 25 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 84 |
| 8:40 AM | 3 | 12 | 1 | 0 | 0 | 8 | 25 | 0 | 31 | 0 | 3 | 0 | 0 | 1 | 1 | 0 | 85 |
| 8:45 AM | 3 | 36 | 0 | 0 | 2 | 13 | 21 | 0 | 18 | 0 | 5 | 0 | 0 | 0 | 1 | 0 | 99 |
| 8:50 AM | 9 | 22 | 0 | 0 | 0 | 10 | 17 | 0 | 28 | 1 | 5 | 0 | 0 | 0 | 1 | 0 | 93 |
| 8:55 AM | 4 | 10 | 1 | 0 | 0 | 7 | 21 | 0 | 24 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 73 |
| Total Survey | 174 | 605 | 10 | 0 | 14 | 211 | 673 | 0 | 647 | 3 | 110 | 1 | 1 | 6 | 8 | 0 | 2,462 |


| Pedestrians <br> Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: |
| North | South | East |  | West | 0 | 0 | 0 | 0 |
| :---: | :---: | :---: | :---: |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 1 | 1 | 0 |
| 0 | 1 | 1 | 0 |
| 0 | 1 | 1 | 1 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 3 | 3 | 3 |

15-Minute Interval Summary
7:00 AM to 9:00 AM

| Interval Start Time | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Sagert St |  |  |  | Westbound SW Sagert St |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  |
| 7:00 AM | 14 | 90 | 0 | 0 | 1 | 17 | 72 | 0 | 63 | 0 | 6 | 0 | 1 | 1 | 0 | 0 | 265 |
| 7:15 AM | 23 | 101 | 2 | 0 | 0 | 23 | 75 | 0 | 86 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 318 |
| 7:30 AM | 27 | 98 | 2 | 0 | 2 | 34 | 98 | 0 | 82 | 1 | 10 | 0 | 0 | 1 | 0 | 0 | 355 |
| 7:45 AM | 28 | 80 | 1 | 0 | 4 | 37 | 94 | 0 | 102 | 0 | 11 | 1 | 0 | 0 | 1 | 0 | 358 |
| 8:00 AM | 33 | 58 | 2 | 0 | 4 | 31 | 99 | 0 | 90 | 0 | 28 | 0 | 0 | 1 | 2 | 0 | 348 |
| 8:15 AM | 21 | 51 | 1 | 0 | 1 | 22 | 104 | 0 | 77 | 1 | 22 | 0 | 0 | 2 | 2 | 0 | 304 |
| 8:30 AM | 12 | 59 | 1 | 0 | 0 | 17 | 72 | 0 | 77 | 0 | 9 | 0 | 0 | 1 | 1 | 0 | 249 |
| 8:45 AM | 16 | 68 | 1 | 0 | 2 | 30 | 59 | 0 | 70 | 1 | 16 | 0 | 0 | 0 | 2 | 0 | 265 |
| Total Survey | 174 | 605 | 10 | 0 | 14 | 211 | 673 | 0 | 647 | 3 | 110 | 1 | 1 | 6 | 8 | 0 | 2,462 |


| Pedestrians <br> Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: |
| North | South | East | West |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0 | 2 | 2 | 0 |
| 0 | 1 | 1 | 1 |
| 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 1 |
| 0 | 3 | 3 | 3 |

Peak Hour Summary
7:20 AM to 8:20 AM

| By | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Sagert St |  |  |  | Westbound SW Sagert St |  |  |  | Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | Bikes | In | Out | Total | Bikes | In | Out | Total | Bikes | In | Out | Total | Bikes |  | North | South | East | West |
| Volume | 440 | 189 | 629 | 0 | 512 | 684 | 1,196 | 0 | 426 | 493 | 919 | 1 | 7 | 19 | 26 | 0 | 1,385 | 0 | 3 | 3 | 1 |
| \%HV | 2.0\% |  |  |  | 2.7\% |  |  |  | 4.5\% |  |  |  | 0.0\% |  |  |  | 3.0\% |  |  |  |  |
| PHF | 0.86 |  |  |  | 0.93 |  |  |  | 0.83 |  |  |  | 0.44 |  |  |  | 0.97 |  |  |  |  |
| By <br> Movement |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Sagert St |  |  |  | Westbound SW Sagert St |  |  |  | Total |  |  |  |  |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |  |  |  |  |
| Volume | 111 | 321 | 8 | 440 | 10 | 124 | 378 | 512 | 360 | 1 | 65 | 426 | 0 | 4 | 3 | 7 | 1,385 |  |  |  |  |
| \%HV | 0.9\% | 2.5\% | 0.0\% | 2.0\% | 0.0\% | 2.4\% | 2.9\% | 2.7\% | 4.7\% | \#\#\#\#\# | 1.5\% | 4.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.0\% |  |  |  |  |
| PHF | 0.79 | 0.79 | 0.67 | 0.86 | 0.50 | 0.67 | 0.95 | 0.93 | 0.88 | 0.25 | 0.52 | 0.83 | 0.00 | 0.33 | 0.38 | 0.44 | 0.97 |  |  |  |  |

## Rolling Hour Summary

7:00 AM to 9:00 AM

| Interval Start <br> Time | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Sagert St |  |  |  | Westbound SW Sagert St |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 7:00 AM | 92 | 369 | 5 | 0 | 7 | 111 | 339 | 0 | 333 | 1 | 35 | 1 | 1 | 2 | 1 | 0 | 1,296 | 0 | 0 | 0 | 0 |
| 7:15 AM | 111 | 337 | 7 | 0 | 10 | 125 | 366 | 0 | 360 | 1 | 57 | 1 | 0 | 2 | 3 | 0 | 1,379 | 0 | 2 | 2 | 0 |
| 7:30 AM | 109 | 287 | 6 | 0 | 11 | 124 | 395 | 0 | 351 | 2 | 71 | 1 | 0 | 4 | 5 | 0 | 1,365 | 0 | 3 | 3 | 1 |
| 7:45 AM | 94 | 248 | 5 | 0 | 9 | 107 | 369 | 0 | 346 | 1 | 70 | 1 | 0 | 4 | 6 | 0 | 1,259 | 0 | 3 | 3 | 2 |
| 8:00 AM | 82 | 236 | 5 | 0 | 7 | 100 | 334 | 0 | 314 | 2 | 75 | 0 | 0 | 4 | 7 | 0 | 1,166 | 0 | 3 | 3 | 3 |

Heavy Vehicle Summary

Out 12
In 19

SW 65th Ave \& SW Sagert St
Wednesday, April 06, 2016
7:00 AM to 9:00 AM


Heavy Vehicle 5-Minute Interval Summary
7:00 AM to 9:00 AM

| $\begin{gathered} \hline \text { Interval } \\ \text { Start } \\ \text { Time } \\ \hline \end{gathered}$ | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Sagert St |  |  |  | Westbound SW Sagert St |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 3 |
| 7:05 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 7:10 AM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 4 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 7:20 AM | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 7:25 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 7:30 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 7:35 AM | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 7:40 AM | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 5 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| 7:50 AM | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 5 |
| 7:55 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 6 |
| 8:00 AM | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| 8:05 AM | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 2 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 5 |
| 8:10 AM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 3 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| 8:20 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 8:25 AM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| 8:35 AM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 8:40 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 8:45 AM | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| 8:50 AM | 1 | 2 | 0 | 3 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 8:55 AM | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 5 |
| Total Survey | 2 | 13 | 0 | 15 | 0 | 7 | 20 | 27 | 27 | 1 | 2 | 30 | 0 | 1 | 0 | 1 | 73 |

Heavy Vehicle 15-Minute Interval Summary
7:00 AM to 9:00 AM

| Interval Start Time | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Sagert St |  |  |  | Westbound SW Sagert St |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 7:00 AM | 0 | 1 | 0 | 1 | 0 | 1 | 2 | 3 | 4 | 0 | 0 | 4 | 0 | 1 | 0 | 1 | 9 |
| 7:15 AM | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| 7:30 AM | 0 | 4 | 0 | 4 | 0 | 0 | 2 | 2 | 3 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 10 |
| 7:45 AM | 0 | 1 | 0 | 1 | 0 | 1 | 4 | 5 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 15 |
| 8:00 AM | 1 | 1 | 0 | 2 | 0 | 1 | 4 | 5 | 3 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 11 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 4 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 7 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 4 |
| 8:45 AM | 1 | 4 | 0 | 5 | 0 | 2 | 3 | 5 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 13 |
| Total Surver | 2 | 13 | 0 | 15 | 0 | 7 | 20 | 27 | 27 | 1 | 2 | 30 | 0 | 1 | 0 | 1 | 73 |

Heavy Vehicle Peak Hour Summary
7:20 AM to 8:20 AM

| By <br> Approach | Northbound SW 65th Ave |  |  | Southbound SW 65th Ave |  |  | Eastbound SW Sagert St |  |  | Westbound SW Sagert St |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | In | Out | Total | In | Out | Total | In | Out | Total |  |
| Volume | 9 | 4 | 13 | 14 | 25 | 39 | 19 | 12 | 31 | 0 | 1 | 1 | 42 |
| PHF | 0.56 |  |  | 0.58 |  |  | 0.53 |  |  | 0.00 |  |  | 0.70 |


| By <br> Movement | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Sagert St |  |  |  | Westbound SW Sagert St |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| Volume | 1 | 8 | 0 | 9 | 0 | 3 | 11 | 14 | 17 | 1 | 1 | 19 | 0 | 0 | 0 | 0 | 42 |
| PHF | 0.25 | 0.50 | 0.00 | 0.56 | 0.00 | 0.38 | 0.69 | 0.58 | 0.47 | 0.25 | 0.25 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.70 |

Heavy Vehicle Rolling Hour Summary
7:00 AM to 9:00 AM

| Interval Start <br> Time | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Sagert St |  |  |  | Westbound SW Sagert St |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 7:00 AM | 0 | 8 | 0 | 8 | 0 | 2 | 9 | 11 | 17 | 1 | 0 | 18 | 0 | 1 | 0 | 1 | 38 |
| 7:15 AM | 1 | 8 | 0 | 9 | 0 | 2 | 11 | 13 | 16 | 1 | 1 | 18 | 0 | 0 | 0 | 0 | 40 |
| 7:30 AM | 1 | 6 | 0 | 7 | 0 | 3 | 13 | 16 | 18 | 1 | 1 | 20 | 0 | 0 | 0 | 0 | 43 |
| 7:45 AM | 1 | 2 | 0 | 3 | 0 | 4 | 12 | 16 | 16 | 0 | 2 | 18 | 0 | 0 | 0 | 0 | 37 |
| 8:00 AM | 2 | 5 | 0 | 7 | 0 | 5 | 11 | 16 | 10 | 0 | 2 | 12 | 0 | 0 | 0 | 0 | 35 |



Total Vehicle Summary

## All Traffic Data <br> $\longrightarrow$ Services Inc. <br> Clay Carney (503) 833-2740

SW 65th Ave \& SW Sagert St
Tuesday, April 05, 2016
4:00 PM to 6:00 PM


5-Minute Interval Summary
4:00 PM to 6:00 PM

| $\begin{gathered} \hline \text { Interval } \\ \text { Start } \\ \text { Time } \\ \hline \end{gathered}$ | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Sagert St |  |  |  | Westbound SW Sagert St |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 4:00 PM | 6 | 8 | 0 | 0 | 0 | 17 | 39 | 0 | 28 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 105 | 0 | 0 | 0 | 0 |
| 4:05 PM | 2 | 6 | 0 | 0 | 0 | 24 | 36 | 0 | 36 | 2 | 14 | 0 | 1 | 0 | 0 | 0 | 121 | 0 | 0 | 0 | 1 |
| 4:10 PM | 6 | 7 | 0 | 0 | 0 | 19 | 23 | 1 | 41 | 0 | 9 | 0 | 0 | 0 | 1 | 0 | 106 | 0 | 0 | 0 | 0 |
| 4:15 PM | 7 | 6 | 0 | 0 | 1 | 21 | 33 | 0 | 40 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 118 | 0 | 0 | 0 | 0 |
| 4:20 PM | 4 | 12 | 0 | 0 | 0 | 16 | 24 | 0 | 41 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 110 | 0 | 0 | 0 | 0 |
| 4:25 PM | 5 | 12 | 0 | 0 | 1 | 33 | 27 | 0 | 33 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 120 | 0 | 1 | 1 | 0 |
| 4:30 PM | 2 | 17 | 0 | 0 | 0 | 23 | 31 | 0 | 40 | 0 | 13 | 0 | 0 | 0 | 1 | 0 | 127 | 0 | 1 | 1 | 0 |
| 4:35 PM | 4 | 10 | 0 | 0 | 0 | 28 | 29 | 0 | 40 | 0 | 7 | 0 | 0 | 1 | 2 | 0 | 121 | 0 | 0 | 0 | 0 |
| 4:40 PM | 2 | 12 | 1 | 0 | 0 | 28 | 26 | 0 | 39 | 0 | 13 | 1 | 0 | 0 | 0 | 0 | 121 | 0 | 0 | 0 | 0 |
| 4:45 PM | 4 | 9 | 0 | 0 | 0 | 35 | 27 | 0 | 40 | 0 | 9 | 0 | 0 | 1 | 0 | 0 | 125 | 0 | 0 | 0 | 0 |
| 4:50 PM | 5 | 16 | 0 | 0 | 0 | 28 | 34 | 0 | 37 | 0 | 11 | 0 | 0 | 2 | 0 | 0 | 133 | 0 | 0 | 0 | 0 |
| 4:55 PM | 4 | 9 | 0 | 0 | 1 | 33 | 28 | 0 | 43 | 0 | 11 | 1 | 0 | 0 | 0 | 2 | 129 | 0 | 0 | 0 | 0 |
| 5:00 PM | 1 | 13 | 0 | 0 | 1 | 26 | 36 | 0 | 40 | 0 | 9 | 0 | 1 | 0 | 2 | 0 | 129 | 0 | 1 | 1 | 3 |
| 5:05 PM | 2 | 15 | 0 | 0 | 0 | 25 | 30 | 0 | 35 | 1 | 5 | 0 | 3 | 0 | 0 | 0 | 116 | 0 | 0 | 0 | 0 |
| 5:10 PM | 2 | 11 | 0 | 0 | 0 | 28 | 35 | 0 | 39 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 122 | 0 | 0 | 0 | 0 |
| 5:15 PM | 3 | 13 | 0 | 0 | 0 | 27 | 35 | 0 | 40 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 131 | 0 | 0 | 0 | 0 |
| 5:20 PM | 1 | 7 | 0 | 0 | 0 | 29 | 34 | 0 | 39 | 0 | 11 | 0 | 0 | 0 | 4 | 0 | 125 | 0 | 1 | 1 | 1 |
| 5:25 PM | 7 | 15 | 0 | 0 | 0 | 28 | 32 | 0 | 34 | 0 | 9 | 1 | 0 | 0 | 0 | 0 | 125 | 0 | 0 | 0 | 5 |
| 5:30 PM | 4 | 8 | 0 | 0 | 1 | 36 | 28 | 0 | 39 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 125 | 0 | 0 | 0 | 0 |
| 5:35 PM | 3 | 11 | 0 | 0 | 0 | 34 | 26 | 2 | 42 | 0 | 9 | 0 | 1 | 0 | 0 | 0 | 126 | 0 | 0 | 0 | 0 |
| 5:40 PM | 4 | 12 | 0 | 0 | 2 | 26 | 29 | 0 | 37 | 0 | 5 | 2 | 0 | 0 | 0 | 0 | 115 | 0 | 0 | 0 | 0 |
| 5:45 PM | 7 | 14 | 0 | 0 | 0 | 20 | 28 | 0 | 34 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 107 | 0 | 0 | 0 | 0 |
| 5:50 PM | 3 | 17 | 0 | 0 | 1 | 15 | 27 | 0 | 32 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 98 | 0 | , | 0 | 0 |
| 5:55 PM | 0 | 16 | 0 | 0 | 0 | 19 | 25 | 0 | 37 | 0 | 5 | 0 | 0 | 1 | 0 | 0 | 103 | 0 | 0 | 0 | 0 |
| Total Survey | 88 | 276 | 1 | 0 | 8 | 618 | 722 | 3 | 906 | 4 | 211 | 5 | 6 | 6 | 12 | 2 | 2,858 | 0 | 4 | 4 | 10 |

15-Minute Interval Summary
4:00 PM to 6:00 PM

| Interva Start Time | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Sagert St |  |  |  | Westbound SW Sagert St |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 4:00 PM | 14 | 21 | 0 | 0 | 0 | 60 | 98 | 1 | 105 | 3 | 29 | 0 | 1 | 0 | 1 | 0 | 332 | 0 | 0 | 0 | 1 |
| 4:15 PM | 16 | 30 | 0 | 0 | 2 | 70 | 84 | 0 | 114 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 348 | 0 | 1 | 1 | 0 |
| 4:30 PM | 8 | 39 | 1 | 0 | 0 | 79 | 86 | 0 | 119 | 0 | 33 | 1 | 0 | 1 | 3 | 0 | 369 | 0 | 1 | 1 | 0 |
| 4:45 PM | 13 | 34 | 0 | 0 | 1 | 96 | 89 | 0 | 120 | 0 | 31 | 1 | 0 | 3 | 0 | 2 | 387 | 0 | 0 | 0 | 0 |
| 5:00 PM | 5 | 39 | 0 | 0 | 1 | 79 | 101 | 0 | 114 | 1 | 21 | 0 | 4 | 0 | 2 | 0 | 367 | 0 | 1 | 1 | 3 |
| 5:15 PM | 11 | 35 | 0 | 0 | 0 | 84 | 101 | 0 | 113 | 0 | 32 | 1 | 0 | 1 | 4 | 0 | 381 | 0 | 1 | 1 | 6 |
| 5:30 PM | 11 | 31 | 0 | 0 | 3 | 96 | 83 | 2 | 118 | 0 | 23 | 2 | 1 | 0 | 0 | 0 | 366 | 0 | 0 | 0 | 0 |
| 5:45 PM | 10 | 47 | 0 | 0 | 1 | 54 | 80 | 0 | 103 | 0 | 10 | 0 | 0 | 1 | 2 | 0 | 308 | 0 | 0 | 0 | 0 |
| Total Survey | 88 | 276 | 1 | 0 | 8 | 618 | 722 | 3 | 906 | 4 | 211 | 5 | 6 | 6 | 12 | 2 | 2,858 | 0 | 4 | 4 | 10 |

Peak Hour Summary
4:40 PM to 5:40 PM

| By <br> Approach | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Sagert St |  |  |  | Westbound SW Sagert St |  |  |  | Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | Bikes | In | Out | Total | Bikes | In | Out | Total | Bikes | In | Out | Total | Bikes |  | North | South | East | West |
| Volume | 178 | 477 | 655 | 0 | 731 | 612 | 1,343 | 2 | 583 | 413 | 996 | 3 | 15 | 5 | 20 | 2 | 1,507 | 0 | 2 | 2 | 9 |
| \%HV | 0.6\% |  |  |  | 1.8\% |  |  |  | 1.4\% |  |  |  | 0.0\% |  |  |  | 1.5\% |  |  |  |  |
| PHF | 0.91 |  |  |  | 0.97 |  |  |  | 0.97 |  |  |  | 0.63 |  |  |  | 0.96 |  |  |  |  |
| By <br> Movement |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Sagert St |  |  |  | Westbound SW Sagert St |  |  |  | Total |  |  |  |  |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |  |  |  |  |
| Volume | 38 | 139 | 1 | 178 | 3 | 357 | 371 | 731 | 467 | 1 | 115 | 583 | 5 | 4 | 6 | 15 | 1,507 |  |  |  |  |
| \%HV | 0.0\% | 0.7\% | 0.0\% | 0.6\% | 0.0\% | 0.8\% | 2.7\% | 1.8\% | 1.7\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% |  |  |  |  |
| PHF | 0.68 | 0.89 | 0.25 | 0.91 | 0.38 | 0.91 | 0.89 | 0.97 | 0.97 | 0.25 | 0.87 | 0.97 | 0.31 | 0.33 | 0.38 | 0.63 | 0.96 |  |  |  |  |

## Rolling Hour Summary

4:00 PM to 6:00 PM

| Interval Start Time | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Sagert St |  |  |  | Westbound SW Sagert St |  |  |  | Interval Total | Pedestrians Crosswalk |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes | L | T | R | Bikes |  | North | South | East | West |
| 4:00 PM | 51 | 124 | 1 | 0 | 3 | 305 | 357 | 1 | 458 | 3 | 125 | 2 | 1 | 4 | 4 | 2 | 1,436 | 0 | 2 | 2 | 1 |
| 4:15 PM | 42 | 142 | 1 | 0 | 4 | 324 | 360 | 0 | 467 | 1 | 117 | 2 | 4 | 4 | 5 | 2 | 1,471 | 0 | 3 | 3 | 3 |
| 4:30 PM | 37 | 147 | 1 | 0 | 2 | 338 | 377 | 0 | 466 | 1 | 117 | 3 | 4 | 5 | 9 | 2 | 1,504 | 0 | 3 | 3 | 9 |
| 4:45 PM | 40 | 139 | - | 0 | 5 | 355 | 374 | 2 | 465 | 1 | 107 | 4 | 5 | 4 | 6 | 2 | 1,501 | 0 | 2 | 2 | 9 |
| 5:00 PM | 37 | 152 | 0 | 0 | 5 | 313 | 365 | 2 | 448 | 1 | 86 | 3 | 5 | 2 | 8 | 0 | 1,422 | 0 | 2 | 2 | 9 |

## Heavy Vehicle Summary

Out 10
In 8

SW 65th Ave \& SW Sagert St
Tuesday, April 05, 2016
4:00 PM to 6:00 PM


Heavy Vehicle 5-Minute Interval Summary
4:00 PM to 6:00 PM

| Interval Start Time | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Sagert St |  |  |  | Westbound SW Sagert St |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 4 |
| 4:05 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 4 |
| 4:10 PM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 3 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 4:20 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:25 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 4:35 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:40 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 4:50 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:55 PM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| 5:05 PM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 5:10 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 |
| 5:15 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 |
| 5:20 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 5:25 PM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| 5:35 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:40 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 5:50 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 5:55 PM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| Total Survey | 0 | 2 | 0 | 2 | 0 | 4 | 20 | 24 | 18 | 0 | 2 | 20 | 0 | 0 | 0 | 0 | 46 |

Heavy Vehicle 15-Minute Interval Summary 4:00 PM to 6:00 PM

| Interval Start Time | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Sagert St |  |  |  | Westbound SW Sagert St |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 4 | 0 | 2 | 6 | 0 | 0 | 0 | 0 | 11 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 4 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 9 |
| 5:15 PM | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 2 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 6 |
| 5:30 PM | 0 | 1 | 0 | 1 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 5 |
| Total Survey | 0 | 2 | 0 | 2 | 0 | 4 | 20 | 24 | 18 | 0 | 2 | 20 | 0 | 0 | 0 | 0 | 46 |

Heavy Vehicle Peak Hour Summary
4:40 PM to 5:40 PM

| By <br> Approach | Northbound SW 65th Ave |  |  | Southbound SW 65th Ave |  |  | Eastbound SW Sagert St |  |  | Westbound SW Sagert St |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | In | Out | Total | In | Out | Total | In | Out | Total |  |
| Volume | 1 | 3 | 4 | 13 | 9 | 22 | 8 | 10 | 18 | 0 | 0 | 0 | 22 |
| PHF | 0.25 |  |  | 0.54 |  |  | 0.40 |  |  | 0.00 |  |  | 0.61 |


| By <br> Movement | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Sagert St |  |  |  | Westbound SW Sagert St |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| Volume | 0 | 1 | 0 | 1 | 0 | 3 | 10 | 13 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 22 |
| PHF | 0.00 | 0.25 | 0.00 | 0.25 | 0.00 | 0.38 | 0.42 | 0.54 | 0.40 | 0.00 | 0.00 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.61 |

Heavy Vehicle Rolling Hour Summary
4:00 PM to 6:00 PM

| Interval Start Time | Northbound SW 65th Ave |  |  |  | Southbound SW 65th Ave |  |  |  | Eastbound SW Sagert St |  |  |  | Westbound SW Sagert St |  |  |  | Interval Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L | T | R | Total | L | T | R | Total | L | T | R | Total | L | T | R | Total |  |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 3 | 9 | 12 | 8 | 0 | 2 | 10 | 0 | 0 | 0 | 0 | 22 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 3 | 10 | 13 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 20 |
| 4:30 PM | 0 | 1 | 0 | 1 | 0 | 3 | 10 | 13 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 22 |
| 4:45 PM | 0 | 2 | 0 | 2 | 0 | 3 | 10 | 13 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 23 |
| 5:00 PM | 0 | 2 | 0 | 2 | 0 | 1 | 11 | 12 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 24 |



# EXHIBIT N <br> $\xi$ 

## TRIP GENERATION CALCULATIONS

Land Use: Apartment<br>Land Use Code: 220<br>Variable: Dwelling Units

Variable Value: 264

## AM PEAK HOUR

Trip Equation: $\quad$ T $=0.49(\mathrm{X})+3.73$

|  | Enter | Exit | Total |
| :---: | :---: | :---: | :---: |
| Directional <br> Distribution | $20 \%$ | $80 \%$ |  |
| Trip Ends | $\mathbf{2 7}$ | $\mathbf{1 0 6}$ | $\mathbf{1 3 3}$ |

## WEEKDAY

Trip Equation: $\quad \mathrm{T}=6.06(\mathrm{X})+123.56$

|  | Enter | Exit | Total |
| :---: | :---: | :---: | :---: |
| Directional <br> Distribution | $50 \%$ | $50 \%$ |  |
| Trip Ends | $\mathbf{8 6 2}$ | $\mathbf{8 6 2}$ | $\mathbf{1 , 7 2 4}$ |

## PM PEAK HOUR

Trip Equation: $\quad \mathrm{T}=0.55(\mathrm{X})+17.65$

|  | Enter | Exit | Total |
| :---: | :---: | :---: | :---: |
| Directional <br> Distribution | $65 \%$ | $35 \%$ |  |
| Trip Ends | $\mathbf{1 0 6}$ | $\mathbf{5 7}$ | $\mathbf{1 6 3}$ |

## SATURDAY

Trip Equation: $\mathrm{T}=7.85(\mathrm{X})-256.19$

|  | Enter | Exit | Total |
| :---: | :---: | :---: | :---: |
| Directional <br> Distribution | $50 \%$ | $50 \%$ |  |
| Trip Ends | $\mathbf{9 0 8}$ | $\mathbf{9 0 8}$ | $\mathbf{1 , 8 1 6}$ |

## LEVEL OF SERVICE

## $\varepsilon$

Level of service is used to describe the quality of traffic flow. Levels of service A to C are considered good, and rural roads are usually designed for level of service C . Urban streets and signalized intersections are typically designed for level of service $D$. Level of service E is considered to be the limit of acceptable delay. For unsignalized intersections, level of service E is generally considered acceptable. Here is a more complete description of levels of service:

Level of service A: Very low delay at intersections, with all traffic signal cycles clearing and no vehicles waiting through more than one signal cycle. On highways, low volume and high speeds, with speeds not restricted by other vehicles.

Level of service B: Operating speeds beginning to be affected by other traffic; short traffic delays at intersections. Higher average intersection delay than for level of service A resulting from more vehicles stopping.

Level of service C: Operating speeds and maneuverability closely controlled by other traffic; higher delays at intersections than for level of service B due to a significant number of vehicles stopping. Not all signal cycles clear the waiting vehicles. This is the recommended design standard for rural highways.

Level of service D: Tolerable operating speeds; long traffic delays occur at intersections. The influence of congestion is noticeable. At traffic signals many vehicles stop, and the proportion of vehicles not stopping declines. The number of signal cycle failures, for which vehicles must wait through more than one signal cycle, are noticeable. This is typically the design level for urban signalized intersections.

Level of service E: Restricted speeds, very long traffic delays at traffic signals, and traffic volumes near capacity. Flow is unstable so that any interruption, no matter how minor, will cause queues to form and service to deteriorate to level of service F. Traffic signal cycle failures are frequent occurrences. For unsignalized intersections, level of service E or better is generally considered acceptable.

Level of service F: Extreme delays, resulting in long queues which may interfere with other traffic movements. There may be stoppages of long duration, and speeds may drop to zero. There may be frequent signal cycle failures. Level of service F will typically result when vehicle arrival rates are greater than capacity. It is considered unacceptable by most drivers.

## LEVEL OF SERVICE CRITERIA FOR SIGNALIZED INTERSECTIONS

| LEVEL <br> OF <br> SERVICE | CONTROL DELAY <br> PER VEHICLE <br> (Seconds) |
| :---: | :---: |
| A | $<10$ |
| B | $10-20$ |
| C | $20-35$ |
| D | $35-55$ |
| E | $55-80$ |
| F | $>80$ |

## LEVEL OF SERVICE CRITERIA

## FOR UNSIGNALIZED INTERSECTIONS

| LEVEL <br> OF <br> SERVICE | CONTROL DELAY <br> PER VEHICLE <br> (Seconds) |
| :---: | :---: |
| A | $<10$ |
| B | $10-15$ |
| C | $15-25$ |
| D | $25-35$ |
| E | $35-50$ |
| F | $>50$ |

EXHIBIT N
HCM Signalized Intersection Capacity Analysis
1: I-5 SB Ramps \& SW Nyberg Street
09/20/2017


Analysis Period (min)
15
c Critical Lane Group

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |


| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | \％${ }^{1 / 1}$ | 性 |  | ${ }^{*}$ | 中 ${ }^{\text {a }}$ |  |  | $\uparrow$ | 「 |  | $\uparrow$ | F |
| Traffic Volume（vph） | 123 | 685 | 14 | 9 | 982 | 58 | 59 | 4 | 1 | 48 | 2 | 33 |
| Future Volume（vph） | 123 | 685 | 14 | 9 | 982 | 58 | 59 | 4 | 1 | 48 | 2 | 33 |
| Ideal Flow（vphpl） | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time（s） | 4.5 | 4.5 |  | 4.5 | 4.5 |  |  | 4.5 | 4.5 |  | 4.5 | 4.5 |
| Lane Util．Factor | 0.97 | 0.95 |  | 1.00 | 0.95 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Frpb，ped／bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 0.99 |  | 1.00 | 0.99 |
| Flpb，ped／bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Frt | 1.00 | 1.00 |  | 1.00 | 0.99 |  |  | 1.00 | 0.85 |  | 1.00 | 0.85 |
| Flt Protected | 0.95 | 1.00 |  | 0.95 | 1.00 |  |  | 0.95 | 1.00 |  | 0.95 | 1.00 |
| Satd．Flow（prot） | 3433 | 3527 |  | 1770 | 3510 |  |  | 1759 | 1546 |  | 1777 | 1573 |
| Flt Permitted | 0.95 | 1.00 |  | 0.95 | 1.00 |  |  | 0.70 | 1.00 |  | 0.68 | 1.00 |
| Satd．Flow（perm） | 3433 | 3527 |  | 1770 | 3510 |  |  | 1284 | 1546 |  | 1272 | 1573 |
| Peak－hour factor，PHF | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Adj．Flow（vph） | 138 | 770 | 16 | 10 | 1103 | 65 | 66 | 4 | 1 | 54 | 2 | 37 |
| RTOR Reduction（vph） | 0 | ， | 0 | 0 | 5 | 0 | 0 | 0 | 1 | 0 | 0 | 29 |
| Lane Group Flow（vph） | 138 | 785 | 0 | 10 | 1163 | 0 | 0 | 70 | 0 | 0 | 56 | 8 |
| Confl．Peds．（\＃hr） |  |  | 4 | 4 |  |  | 2 |  |  |  |  | 2 |


|  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Confl．Bikes（\＃l／r） |  |  |  |  |  |  |  |  |  |  |  |  |
| Heavy Vehicles（\％） | $2 \%$ | $2 \%$ | $2 \%$ | $2 \%$ | $2 \%$ | $2 \%$ | $3 \%$ | $3 \%$ | $3 \%$ | $2 \%$ | $2 \%$ | $2 \%$ |
| Turn Type | Prot | NA | Prot | NA |  | Perm | NA | Perm | Perm | NA | pm＋ov |  |
| Protected Phases | 5 | 2 | 1 | 6 |  |  | 4 |  |  | 8 | 5 |  |


| Permitted Phases |  |  |  |  |  | 4 | 8 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Actuated Green，G（s） | 7.2 | 39.2 | 1.4 | 33.4 | 5.9 | 5.9 | 5.9 | 13.1 |
| Effective Green， g （s） | 7.2 | 39.2 | 1.4 | 33.4 | 5.9 | 5.9 | 5.9 | 13.1 |
| Actuated g／C Ratio | 0.12 | 0.65 | 0.02 | 0.56 | 0.10 | 0.10 | 0.10 | 0.22 |
| Clearance Time（s） | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| Vehicle Extension（s） | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| Lane Grp Cap（vph） | 411 | 2304 | 41 | 1953 | 126 | 152 | 125 | 461 |
| v／s Ratio Prot | 0.04 | c0．22 | 0.01 | c0．33 |  |  |  | 0.00 |
| v／s Ratio Perm |  |  |  |  | c0．05 | 0.00 | 0.04 | 0.00 |
| v／c Ratio | 0.34 | 0.34 | 0.24 | 0.60 | 0.56 | 0.00 | 0.45 | 0.02 |
| Uniform Delay，d1 | 24.2 | 4.6 | 28.8 | 8.8 | 25.8 | 24.4 | 25.5 | 18.4 |
| Progression Factor | 0.73 | 0.85 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Incremental Delay，d2 | 0.5 | 0.4 | 3.1 | 0.5 | 5.2 | 0.0 | 2.5 | 0.0 |
| Delay（s） | 18.2 | 4.3 | 31.9 | 9.3 | 31.0 | 24.4 | 28.1 | 18.4 |
| Level of Service | B | A | C | A | C | C | C | B |
| Approach Delay（s） |  | 6.4 |  | 9.5 | 30.9 |  | 24.2 |  |
| Approach LOS |  | A |  | A | C |  | C |  |


| Intersection Summary |  |  |  |
| :--- | ---: | :--- | ---: |
| HCM 2000 Control Delay | 9.5 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.57 |  | 13.5 |
| Actuated Cycle Length（s） | 60.0 | Sum of lost time（s） | A |
| Intersection Capacity Utilization | $54.6 \%$ | ICU Level of Service |  |
| Analysis Period（min） | 15 |  |  |
| c Critical Lane Group |  |  |  |

[^5]| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | \% | $\stackrel{\text { F }}{ }$ |  | ${ }^{4}$ | 性 |  |  | $\uparrow$ | F' |  | $\uparrow$ | ${ }^{7}$ |
| Traffic Volume (vph) | 97 | 593 | 21 | 36 | 725 | 24 | 14 | 4 | 34 | 11 | 6 | 230 |
| Future Volume (vph) | 97 | 593 | 21 | 36 | 725 | 24 | 14 | 4 | 34 | 11 | 6 | 230 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  |  | 4.5 | 4.5 |  | 4.5 | 4.5 |
| Lane Util. Factor | 1.00 | 1.00 |  | 1.00 | 0.95 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Frpb, ped/bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 0.98 |  | 1.00 | 1.00 |
| Flpb, ped/bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Frt | 1.00 | 0.99 |  | 1.00 | 1.00 |  |  | 1.00 | 0.85 |  | 1.00 | 0.85 |
| Flt Protected | 0.95 | 1.00 |  | 0.95 | 1.00 |  |  | 0.96 | 1.00 |  | 0.97 | 1.00 |
| Satd. Flow (prot) | 1770 | 1852 |  | 1768 | 3522 |  |  | 1822 | 1580 |  | 1840 | 1607 |
| Flt Permitted | 0.27 | 1.00 |  | 0.39 | 1.00 |  |  | 0.86 | 1.00 |  | 0.80 | 1.00 |
| Satd. Flow (perm) | 503 | 1852 |  | 729 | 3522 |  |  | 1624 | 1580 |  | 1511 | 1607 |
| Peak-hour factor, PHF | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Adj. Flow (vph) | 108 | 659 | 23 | 40 | 806 | 27 | 16 | 4 | 38 | 12 | 7 | 256 |
| RTOR Reduction (vph) | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 36 | 0 | 0 | 58 |
| Lane Group Flow (vph) | 108 | 681 | 0 | 40 | 831 | 0 | 0 | 20 | 2 | 0 | 19 | 198 |
| Confl. Peds. (\#/hr) |  |  | 3 | 3 |  |  | 3 |  | 1 | 1 |  | 3 |
| Confl. Bikes (\#/hr) |  |  | 1 |  |  |  |  |  |  |  |  |  |
| Heavy Vehicles (\%) | 2\% | 2\% | 2\% | 2\% | 2\% | 2\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% |
| Turn Type | pm+pt | NA |  | pm+pt | NA |  | Perm | NA | Perm | Perm | NA | $\mathrm{pm}+\mathrm{ov}$ |
| Protected Phases | 5 | 2 |  | 1 | 6 |  |  | 4 |  |  | 8 | 5 |
| Permitted Phases | 2 |  |  | 6 |  |  | 4 |  | 4 | 8 |  | 8 |
| Actuated Green, G (s) | 51.8 | 44.8 |  | 40.8 | 38.3 |  |  | 4.2 | 4.2 |  | 4.2 | 13.2 |
| Effective Green, g (s) | 51.8 | 44.8 |  | 40.8 | 38.3 |  |  | 4.2 | 4.2 |  | 4.2 | 13.2 |
| Actuated g/C Ratio | 0.80 | 0.69 |  | 0.63 | 0.59 |  |  | 0.06 | 0.06 |  | 0.06 | 0.20 |
| Clearance Time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  |  | 4.5 | 4.5 |  | 4.5 | 4.5 |
| Vehicle Extension (s) | 3.0 | 3.0 |  | 3.0 | 3.0 |  |  | 3.0 | 3.0 |  | 3.0 | 3.0 |
| Lane Grp Cap (vph) | 576 | 1276 |  | 497 | 2075 |  |  | 104 | 102 |  | 97 | 437 |
| v/s Ratio Prot | 0.03 | c0.37 |  | 0.00 | 0.24 |  |  |  |  |  |  | c0.06 |
| $\mathrm{v} / \mathrm{s}$ Ratio Perm | 0.12 |  |  | 0.05 |  |  |  | 0.01 | 0.00 |  | 0.01 | 0.06 |
| v/c Ratio | 0.19 | 0.53 |  | 0.08 | 0.40 |  |  | 0.19 | 0.02 |  | 0.20 | 0.45 |
| Uniform Delay, d1 | 2.1 | 5.0 |  | 4.6 | 7.2 |  |  | 28.8 | 28.5 |  | 28.8 | 22.7 |
| Progression Factor | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Incremental Delay, d2 | 0.2 | 1.6 |  | 0.1 | 0.1 |  |  | 0.9 | 0.1 |  | 1.0 | 0.7 |
| Delay (s) | 2.3 | 6.6 |  | 4.7 | 7.3 |  |  | 29.7 | 28.6 |  | 29.8 | 23.5 |
| Level of Service | A | A |  | A | A |  |  | C | C |  | C | C |
| Approach Delay (s) |  | 6.0 |  |  | 7.2 |  |  | 29.0 |  |  | 23.9 |  |
| Approach LOS |  | A |  |  | A |  |  | C |  |  | C |  |


| Intersection Summary |  |  |  |
| :--- | ---: | :--- | ---: |
| HCM 2000 Control Delay | 9.6 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.58 |  | 13.5 |
| Actuated Cycle Length (s) | 65.0 | Sum of lost time (s) | B |
| Intersection Capacity Utilization | $56.2 \%$ | ICU Level of Service |  |
| Analysis Period (min) | 15 |  |  |
| c Critical Lane Group |  |  |  |

[^6]Synchro 9 Report
Page 4

HCM 2010 TWSC
5: SW Nyberg Lane \& Site Access

| Intersection |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh | 0.1 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | ${ }^{7}$ | 4 | F |  | */ |  |
| Traffic Vol, veh/h | 1 | 125 | 247 | 1 | 1 | 1 |
| Future Vol, veh/h | 1 | 125 | 247 | 1 | 1 | 1 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 110 | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1 | 139 | 274 | 1 | 1 | 1 |



[^7] DS

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |

[^8]Intersection
Intersection Delay, s/veh46.7
Intersection LOS E

| Movement EBU | EBL | EBT | EBR | WBU | WBL | WBT | WBR | NBU | NBL | NBT | NBR | SBU | SBL | SBT | SBR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations |  | $\uparrow$ | 「 |  |  | ¢ |  |  |  | $\dagger$ |  |  | ${ }^{7}$ | $\uparrow$ | F |
| Traffic Vol, veh/h 0 | 360 | 1 | 65 | 0 | 1 | 4 | 3 | 0 | 111 | 321 | 8 | 0 | 10 | 124 | 378 |
| Future Vol, veh/h 0 | 360 | 1 | 65 | 0 | 1 | 4 | 3 | 0 | 111 | 321 | 8 | 0 | 10 | 124 | 378 |
| Peak Hour Factor 0.92 | 0.97 | 0.97 | 0.97 | 0.92 | 0.97 | 0.97 | 0.97 | 0.92 | 0.97 | 0.97 | 0.97 | 0.92 | 0.97 | 0.97 | 0.97 |
| Heavy Vehicles, \% 2 | 5 | 5 | 5 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Mvmt Flow 0 | 371 | 1 | 67 | 0 | 1 | 4 | 3 | 0 | 114 | 331 | 8 | 0 | 10 | 128 | 390 |
| Number of Lanes 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| Approach | EB |  |  |  | WB |  |  |  | NB |  |  |  | SB |  |  |
| Opposing Approach | WB |  |  |  | EB |  |  |  | SB |  |  |  | NB |  |  |
| Opposing Lanes | 1 |  |  |  | 2 |  |  |  | 3 |  |  |  | 1 |  |  |
| Conflicting Approach Left | SB |  |  |  | NB |  |  |  | EB |  |  |  | WB |  |  |
| Conflicting Lanes Left | 3 |  |  |  | 1 |  |  |  | 2 |  |  |  | 1 |  |  |
| Conflicting Approach Right | NB |  |  |  | SB |  |  |  | WB |  |  |  | EB |  |  |
| Conflicting Lanes Right | 1 |  |  |  | 3 |  |  |  | 1 |  |  |  | 2 |  |  |
| HCM Control Delay | 44.1 |  |  |  | 12.8 |  |  |  | 77.3 |  |  |  | 23.2 |  |  |
| HCM LOS | E |  |  |  | B |  |  |  | F |  |  |  | C |  |  |


| Lane | NBLn1 EBLn1 EBLn2WBLn1 SBLn1 SBLn2 SBLn3 |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Vol Left, \% | $25 \%$ | $100 \%$ | $0 \%$ | $12 \%$ | $100 \%$ | $0 \%$ | $0 \%$ |
| Vol Thru, \% | $73 \%$ | $0 \%$ | $0 \%$ | $50 \%$ | $0 \%$ | $100 \%$ | $0 \%$ |
| Vol Right, \% | $2 \%$ | $0 \%$ | $100 \%$ | $38 \%$ | $0 \%$ | $0 \%$ | $100 \%$ |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 440 | 361 | 65 | 8 | 10 | 124 | 378 |
| LT Vol | 111 | 360 | 0 | 1 | 10 | 0 | 0 |
| Through Vol | 321 | 1 | 0 | 4 | 0 | 124 | 0 |
| RT Vol | 8 | 0 | 65 | 3 | 0 | 0 | 378 |
| Lane Flow Rate | 454 | 372 | 67 | 8 | 10 | 128 | 390 |
| Geometry Grp | 8 | 8 | 8 | 8 | 7 | 7 | 7 |
| Degree of Util (X) | 1.022 | 0.885 | 0.138 | 0.022 | 0.023 | 0.265 | 0.741 |
| Departure Headway (Hd) | 8.113 | 8.745 | 7.432 | 9.872 | 8.145 | 7.629 | 6.848 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Cap | 449 | 417 | 480 | 365 | 442 | 474 | 526 |
| Service Time | 5.873 | 6.445 | 5.212 | 7.572 | 5.845 | 5.329 | 4.608 |
| HCM Lane V/C Ratio | 1.011 | 0.892 | 0.14 | 0.022 | 0.023 | 0.27 | 0.741 |
| HCM Control Delay | 77.3 | 50 | 11.4 | 12.8 | 11 | 13.1 | 26.8 |
| HCM Lane LOS | F | E | B | B | B | B | D |
| HCM 95th-tile Q | 13.6 | 9.1 | 0.5 | 0.1 | 0.1 | 1.1 | 6.3 |


|  | 4 |  |  | $\checkmark$ |  |  |  | 4 |  |  | $\downarrow$ | $\downarrow$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  | 帆 | 「 | \％ | 个4 |  |  |  |  | \％ | $\uparrow$ | 「 ${ }^{\text {F }}$ |
| Traffic Volume（vph） | 0 | 1368 | 725 | 84 | 1085 | 0 | 0 | 0 | 0 | 878 | 10 | 1248 |
| Future Volume（vph） | 0 | 1368 | 725 | 84 | 1085 | 0 | 0 | 0 | 0 | 878 | 10 | 1248 |
| Ideal Flow（vphpl） | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time（s） |  | 4.5 | 4.5 | 4.5 | 4.5 |  |  |  |  | 4.5 | 4.5 | 4.5 |
| Lane Util．Factor |  | 0.91 | 1.00 | 1.00 | 0.95 |  |  |  |  | 0.95 | 0.95 | 0.88 |
| Frpb，ped／bikes |  | 1.00 | 1.00 | 1.00 | 1.00 |  |  |  |  | 1.00 | 1.00 | 1.00 |
| Flpb，ped／bikes |  | 1.00 | 1.00 | 1.00 | 1.00 |  |  |  |  | 1.00 | 1.00 | 1.00 |
| Frt |  | 1.00 | 0.85 | 1.00 | 1.00 |  |  |  |  | 1.00 | 1.00 | 0.85 |
| FIt Protected |  | 1.00 | 1.00 | 0.95 | 1.00 |  |  |  |  | 0.95 | 0.95 | 1.00 |
| Satd．Flow（prot） |  | 5085 | 1583 | 1736 | 3471 |  |  |  |  | 1681 | 1687 | 2787 |
| Flt Permitted |  | 1.00 | 1.00 | 0.95 | 1.00 |  |  |  |  | 0.95 | 0.95 | 1.00 |
| Satd．Flow（perm） |  | 5085 | 1583 | 1736 | 3471 |  |  |  |  | 1681 | 1687 | 2787 |
| Peak－hour factor，PHF | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Adj．Flow（vph） | － | 1440 | 763 | 88 | 1142 | 0 | 0 | 0 | 0 | 924 | 11 | 1314 |
| RTOR Reduction（vph） | 0 | 0 | 511 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| Lane Group Flow（vph） | 0 | 1440 | 252 | 88 | 1142 | 0 | 0 | 0 | 0 | 471 | 464 | 1286 |
| Confl．Peds．（\＃／hr） | 7 |  |  |  |  | 7 |  |  |  |  |  |  |
| Heavy Vehicles（\％） | 2\％ | 2\％ | 2\％ | 4\％ | 4\％ | 4\％ | 0\％ | 0\％ | 0\％ | 2\％ | 2\％ | 2\％ |
| Turn Type |  | NA | Perm | Prot | NA |  |  |  |  | Perm | NA | Perm |
| Protected Phases |  |  |  | 1 | 6 |  |  |  |  |  | ， |  |
| Permitted Phases |  |  | 2 |  |  |  |  |  |  | 4 |  | 4 |
| Actuated Green，G（s） |  | 39.7 | 39.7 | 8.3 | 52.5 |  |  |  |  | 58.5 | 58.5 | 58.5 |
| Effective Green， g （s） |  | 39.7 | 39.7 | 8.3 | 52.5 |  |  |  |  | 58.5 | 58.5 | 58.5 |
| Actuated g／C Ratio |  | 0.33 | 0.33 | 0.07 | 0.44 |  |  |  |  | 0.49 | 0.49 | 0.49 |
| Clearance Time（s） |  | 4.5 | 4.5 | 4.5 | 4.5 |  |  |  |  | 4.5 | 4.5 | 4.5 |
| Vehicle Extension（s） |  | 3.0 | 3.0 | 3.0 | 3.0 |  |  |  |  | 3.0 | 3.0 | 3.0 |
| Lane Grp Cap（vph） |  | 1682 | 523 | 120 | 1518 |  |  |  |  | 819 | 822 | 1358 |
| v／s Ratio Prot |  | c0．28 |  | 0.05 | c0．33 |  |  |  |  |  |  |  |
| v／s Ratio Perm |  |  | 0.16 |  |  |  |  |  |  | 0.28 | 0.28 | c0．46 |
| $\mathrm{v} / \mathrm{c}$ Ratio |  | 0.86 | 0.48 | 0.73 | 0.75 |  |  |  |  | 0.58 | 0.56 | 0.95 |
| Uniform Delay，d1 |  | 37.5 | 32.0 | 54.8 | 28.3 |  |  |  |  | 21.9 | 21.7 | 29.3 |
| Progression Factor |  | 1.00 | 1.00 | 1.00 | 1.00 |  |  |  |  | 1.00 | 1.00 | 1.00 |
| Incremental Delay，d2 |  | 4.5 | 0.7 | 20.5 | 3.5 |  |  |  |  | 1.0 | 0.9 | 13.6 |
| Delay（s） |  | 42.0 | 32.7 | 75.3 | 31.8 |  |  |  |  | 22.9 | 22.6 | 42.9 |
| Level of Service |  | D | C | E | C |  |  |  |  | C | C | D |
| Approach Delay（s） |  | 38.8 |  |  | 34.9 |  |  | 0.0 |  |  | 34.5 |  |
| Approach LOS |  | D |  |  | C |  |  | A |  |  | C |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| HCM 2000 Control Delay |  |  | 36.2 |  | CM 2000 | evel of | ervice |  | D |  |  |  |
| HCM 2000 Volume to Capacity ratio |  |  | 0.91 |  |  |  |  |  |  |  |  |  |
| Actuated Cycle Length（s） |  |  | 120.0 |  | Sum of los | time（s） |  |  | 13.5 |  |  |  |
| Intersection Capacity Utilization |  |  | 85．4\％ |  | CU Level | Service |  |  | E |  |  |  |
| Analysis Period（min） |  |  | 15 |  |  |  |  |  |  |  |  |  |
| c Critical Lane Group |  |  |  |  |  |  |  |  |  |  |  |  |

c Critical Lane Group

|  | $\geqslant$ | $\rightarrow$ | 7 | $\bigcirc$ | 4 |  | 4 | k | $p$ |  | － |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL2 | NBL | NBR | SEL | SER |
| Lane Configurations |  | 中4 | 「゙「 |  | 中4 | 「 | ${ }^{7}$ | ＊ | 「 |  |  |
| Traffic Volume（vph） | 0 | 1343 | 899 | 0 | 524 | 586 | 680 | 0 | 161 | 0 | 0 |
| Future Volume（vph） | 0 | 1343 | 899 | 0 | 524 | 586 | 680 | 0 | 161 | 0 | 0 |
| Ideal Flow（vphpl） | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time（s） |  | 4.5 | 4.5 |  | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |  |  |
| Lane Util．Factor |  | 0.95 | 0.88 |  | 0.95 | 1.00 | 0.95 | 0.95 | 1.00 |  |  |
| Frpb，ped／bikes |  | 1.00 | 1.00 |  | 1.00 | 0.97 | 1.00 | 1.00 | 0.99 |  |  |
| Flpb，ped／bikes |  | 1.00 | 1.00 |  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |  |  |
| Frt |  | 1.00 | 0.85 |  | 1.00 | 0.85 | 1.00 | 1.00 | 0.85 |  |  |
| Flt Protected |  | 1.00 | 1.00 |  | 1.00 | 1.00 | 0.95 | 0.95 | 1.00 |  |  |
| Satd．Flow（prot） |  | 3539 | 2787 |  | 3574 | 1559 | 1633 | 1633 | 1516 |  |  |
| Flt Permitted |  | 1.00 | 1.00 |  | 1.00 | 1.00 | 0.95 | 0.95 | 1.00 |  |  |
| Satd．Flow（perm） |  | 3539 | 2787 |  | 3574 | 1559 | 1633 | 1633 | 1516 |  |  |
| Peak－hour factor，PHF | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Adj．Flow（vph） | 0 | 1385 | 927 | 0 | 540 | 604 | 701 | 0 | 166 | 0 | 0 |
| RTOR Reduction（vph） | 0 | 0 | 388 | 0 | 0 | 253 | 0 | 0 | 23 | 0 | 0 |
| Lane Group Flow（vph） | 0 | 1385 | 539 | 0 | 540 | 351 | 350 | 351 | 143 | 0 | 0 |
| Confl．Peds．（\＃／hr） | 3 |  |  |  |  | 3 |  |  | 2 | 2 |  |
| Heavy Vehicles（\％） | 2\％ | 2\％ | 2\％ | 1\％ | 1\％ | 1\％ | 5\％ | 5\％ | 5\％ | 0\％ | 0\％ |
| Turn Type |  | NA | Perm |  | NA | Perm | Perm | Prot | Perm |  |  |
| Protected Phases |  | 2 |  |  | 6 |  |  | 8 |  |  |  |
| Permitted Phases |  |  | 2 |  |  | 6 | 8 |  | 8 |  |  |
| Actuated Green，G（s） |  | 37.8 | 37.8 |  | 37.8 | 37.8 | 18.2 | 18.2 | 18.2 |  |  |
| Effective Green，g（s） |  | 37.8 | 37.8 |  | 37.8 | 37.8 | 18.2 | 18.2 | 18.2 |  |  |
| Actuated g／C Ratio |  | 0.58 | 0.58 |  | 0.58 | 0.58 | 0.28 | 0.28 | 0.28 |  |  |
| Clearance Time（s） |  | 4.5 | 4.5 |  | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |  |  |
| Vehicle Extension（s） |  | 3.0 | 3.0 |  | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |  |  |
| Lane Grp Cap（vph） |  | 2058 | 1620 |  | 2078 | 906 | 457 | 457 | 424 |  |  |
| v／s Ratio Prot |  | c0．39 |  |  | 0.15 |  |  |  |  |  |  |
| v／s Ratio Perm |  |  | 0.19 |  |  | 0.23 | 0.21 | 0.21 | 0.09 |  |  |
| v／c Ratio |  | 0.67 | 0.33 |  | 0.26 | 0.39 | 0.77 | 0.77 | 0.34 |  |  |
| Uniform Delay，d1 |  | 9.4 | 7.1 |  | 6.7 | 7.3 | 21.4 | 21.5 | 18.6 |  |  |
| Progression Factor |  | 1.00 | 1.00 |  | 1.09 | 4.43 | 1.00 | 1.00 | 1.00 |  |  |
| Incremental Delay，d2 |  | 1.8 | 0.6 |  | 0.3 | 1.1 | 7.5 | 7.6 | 0.5 |  |  |
| Delay（s） |  | 11.1 | 7.6 |  | 7.6 | 33.7 | 29.0 | 29.1 | 19.1 |  |  |
| Level of Service |  | B | A |  | A | C | C | C | B |  |  |
| Approach Delay（s） |  | 9.7 |  |  | 21.3 |  |  | 27.1 |  | 0.0 |  |
| Approach LOS |  | A |  |  | C |  |  | C |  | A |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |
| HCM 2000 Control Delay |  |  | 16.3 | HCM 2000 Level of Service |  |  |  |  | B |  |  |
| HCM 2000 Volume to Capacity ratio |  |  | 0.70 |  |  |  |  |  |  |  |  |
| Actuated Cycle Length（s） |  |  | 65.0 | Sum of lost time（s） |  |  |  |  | 9.0 |  |  |
| Intersection Capacity Utilization |  |  | 63．5\％ |  | CU Level | Service |  |  | B |  |  |
| Analysis Period（min） |  |  | 15 | ICULevelof |  |  |  |  |  |  |  |

c Critical Lane Group

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | \% ${ }^{1+1}$ | 性 |  | ${ }^{*}$ | 性 |  |  | $\uparrow$ | F |  | $\uparrow$ | F |
| Traffic Volume (vph) | 228 | 1189 | 52 | 11 | 832 | 59 | 71 | 12 | 9 | 104 | 5 | 144 |
| Future Volume (vph) | 228 | 1189 | 52 | 11 | 832 | 59 | 71 | 12 | 9 | 104 | 5 | 144 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  |  | 4.5 | 4.5 |  | 4.5 | 4.5 |
| Lane Util. Factor | 0.97 | 0.95 |  | 1.00 | 0.95 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Frpb, ped/bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 0.99 |
| Flpb, ped/bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Frt | 1.00 | 0.99 |  | 1.00 | 0.99 |  |  | 1.00 | 0.85 |  | 1.00 | 0.85 |
| Flt Protected | 0.95 | 1.00 |  | 0.95 | 1.00 |  |  | 0.96 | 1.00 |  | 0.95 | 1.00 |
| Satd. Flow (prot) | 3467 | 3548 |  | 1770 | 3499 |  |  | 1818 | 1615 |  | 1795 | 1586 |
| Flt Permitted | 0.95 | 1.00 |  | 0.95 | 1.00 |  |  | 0.68 | 1.00 |  | 0.67 | 1.00 |
| Satd. Flow (perm) | 3467 | 3548 |  | 1770 | 3499 |  |  | 1285 | 1615 |  | 1262 | 1586 |
| Peak-hour factor, PHF | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Adj. Flow (vph) | 243 | 1265 | 55 | 12 | 885 | 63 | 76 | 13 | 10 | 111 | 5 | 153 |
| RTOR Reduction (vph) | 0 | 3 | 0 | 0 | 7 | 0 | 0 | 0 | 8 | 0 | 0 | 71 |
| Lane Group Flow (vph) | 243 | 1317 | 0 | 12 | 941 | 0 | 0 | 89 | 2 | 0 | 116 | 82 |
| Confl. Peds. (\#/hr) | 9 |  | 2 | 2 |  | 9 | 3 |  |  |  |  | 3 |
| Confl. Bikes (\#/hr) |  |  | 1 |  |  | 2 |  |  |  |  |  |  |
| Heavy Vehicles (\%) | 1\% | 1\% | 1\% | 2\% | 2\% | 2\% | 0\% | 0\% | 0\% | 1\% | 1\% | 1\% |
| Turn Type | Prot | NA |  | Prot | NA |  | Perm | NA | Perm | Perm | NA | $\mathrm{pm}+\mathrm{ov}$ |
| Protected Phases | 5 | 2 |  | 1 | 6 |  |  | 4 |  |  | 8 | 5 |
| Permitted Phases |  |  |  |  |  |  | 4 |  | 4 | 8 |  | 8 |
| Actuated Green, G (s) | 9.1 | 40.5 |  | 1.0 | 32.4 |  |  | 10.0 | 10.0 |  | 10.0 | 19.1 |
| Effective Green, g (s) | 9.1 | 40.5 |  | 1.0 | 32.4 |  |  | 10.0 | 10.0 |  | 10.0 | 19.1 |
| Actuated g/C Ratio | 0.14 | 0.62 |  | 0.02 | 0.50 |  |  | 0.15 | 0.15 |  | 0.15 | 0.29 |
| Clearance Time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  |  | 4.5 | 4.5 |  | 4.5 | 4.5 |
| Vehicle Extension (s) | 3.0 | 3.0 |  | 3.0 | 3.0 |  |  | 3.0 | 3.0 |  | 3.0 | 3.0 |
| Lane Grp Cap (vph) | 485 | 2210 |  | 27 | 1744 |  |  | 197 | 248 |  | 194 | 575 |
| v/s Ratio Prot | 0.07 | c0.37 |  | 0.01 | c0.27 |  |  |  |  |  |  | 0.02 |
| v/s Ratio Perm |  |  |  |  |  |  |  | 0.07 | 0.00 |  | c0.09 | 0.03 |
| v/c Ratio | 0.50 | 0.60 |  | 0.44 | 0.54 |  |  | 0.45 | 0.01 |  | 0.60 | 0.14 |
| Uniform Delay, d1 | 25.9 | 7.3 |  | 31.7 | 11.2 |  |  | 25.0 | 23.3 |  | 25.6 | 16.9 |
| Progression Factor | 1.22 | 0.83 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Incremental Delay, d2 | 0.6 | 0.9 |  | 11.2 | 0.3 |  |  | 1.6 | 0.0 |  | 4.9 | 0.1 |
| Delay (s) | 32.2 | 7.0 |  | 43.0 | 11.5 |  |  | 26.7 | 23.3 |  | 30.5 | 17.0 |
| Level of Service | C | A |  | D | B |  |  | C | C |  | C | B |
| Approach Delay (s) |  | 11.0 |  |  | 11.9 |  |  | 26.3 |  |  | 22.8 |  |
| Approach LOS |  | B |  |  | B |  |  | C |  |  | C |  |


| Intersection Summary |  |  |  |
| :--- | ---: | :--- | ---: |
| HCM 2000 Control Delay | 12.9 | HCM 2000 Level of Service | B |
| HCM 2000 Volume to Capacity ratio | 0.62 |  | 13.5 |
| Actuated Cycle Length (s) | 65.0 | Sum of lost time (s) | B |
| Intersection Capacity Utilization | $62.9 \%$ | ICU Level of Service |  |
| Analysis Period (min) | 15 |  |  |
| c Critical Lane Group |  |  |  |

[^9]|  | 4 |  |  | 7 |  |  | 4 | 4 | $p$ |  | $\downarrow$ | $\checkmark$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | \% | $\hat{\beta}$ |  | \% | 个 ${ }^{2}$ |  |  | $\uparrow$ | 「 |  | $\uparrow$ | 7 |
| Traffic Volume (vph) | 303 | 924 | 29 | 32 | 720 | 18 | 15 | 11 | 55 | 15 | 4 | 136 |
| Future Volume (vph) | 303 | 924 | 29 | 32 | 720 | 18 | 15 | 11 | 55 | 15 | 4 | 136 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  |  | 4.5 | 4.5 |  | 4.5 | 4.5 |
| Lane Util. Factor | 1.00 | 1.00 |  | 1.00 | 0.95 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Frpb, ped/bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 0.97 |  | 1.00 | 0.99 |
| Flpb, ped/bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Frt | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 0.85 |  | 1.00 | 0.85 |
| Flt Protected | 0.95 | 1.00 |  | 0.95 | 1.00 |  |  | 0.97 | 1.00 |  | 0.96 | 1.00 |
| Satd. Flow (prot) | 1786 | 1870 |  | 1770 | 3524 |  |  | 1841 | 1574 |  | 1828 | 1602 |
| Flt Permitted | 0.32 | 1.00 |  | 0.22 | 1.00 |  |  | 0.81 | 1.00 |  | 0.75 | 1.00 |
| Satd. Flow (perm) | 600 | 1870 |  | 404 | 3524 |  |  | 1536 | 1574 |  | 1432 | 1602 |
| Peak-hour factor, PHF | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Adj. Flow (vph) | 312 | 953 | 30 | 33 | 742 | 19 | 15 | 11 | 57 | 15 | 4 | 140 |
| RTOR Reduction (vph) | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 53 | 0 | 0 | 100 |
| Lane Group Flow (vph) | 312 | 982 | 0 | 33 | 760 | 0 | 0 | 26 | 4 | 0 | 19 | 40 |
| Confl. Peds. (\#/hr) | 2 |  | 9 | 9 |  | 2 | 4 |  |  |  |  | 4 |
| Confl. Bikes (\#/hr) |  |  |  |  |  |  |  |  | 1 |  |  | 1 |
| Heavy Vehicles (\%) | 1\% | 1\% | 1\% | 2\% | 2\% | 2\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% |
| Turn Type | pm+pt | NA |  | pm+pt | NA |  | Perm | NA | Perm | Perm | NA | pm+ov |
| Protected Phases | 5 | 2 |  | 1 | 6 |  |  | 4 |  |  | 8 | 5 |
| Permitted Phases | 2 |  |  | 6 |  |  | 4 |  | 4 | 8 |  | 8 |
| Actuated Green, G (s) | 75.1 | 67.0 |  | 65.5 | 61.9 |  |  | 5.9 | 5.9 |  | 5.9 | 14.6 |
| Effective Green, g (s) | 75.1 | 67.0 |  | 65.5 | 61.9 |  |  | 5.9 | 5.9 |  | 5.9 | 14.6 |
| Actuated g/C Ratio | 0.83 | 0.74 |  | 0.73 | 0.69 |  |  | 0.07 | 0.07 |  | 0.07 | 0.16 |
| Clearance Time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  |  | 4.5 | 4.5 |  | 4.5 | 4.5 |
| Vehicle Extension (s) | 3.0 | 3.0 |  | 3.0 | 3.0 |  |  | 3.0 | 3.0 |  | 3.0 | 3.0 |
| Lane Grp Cap (vph) | 615 | 1392 |  | 348 | 2423 |  |  | 100 | 103 |  | 93 | 339 |
| $\mathrm{v} / \mathrm{s}$ Ratio Prot | c0.05 | c0.53 |  | 0.00 | 0.22 |  |  |  |  |  |  | 0.01 |
| $\mathrm{v} / \mathrm{s}$ Ratio Perm | 0.37 |  |  | 0.07 |  |  |  | c0.02 | 0.00 |  | 0.01 | 0.01 |
| v/c Ratio | 0.51 | 0.71 |  | 0.09 | 0.31 |  |  | 0.26 | 0.04 |  | 0.20 | 0.12 |
| Uniform Delay, d1 | 2.2 | 6.2 |  | 5.3 | 5.6 |  |  | 40.0 | 39.4 |  | 39.8 | 32.2 |
| Progression Factor | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Incremental Delay, d2 | 0.7 | 3.0 |  | 0.1 | 0.1 |  |  | 1.4 | 0.1 |  | 1.1 | 0.2 |
| Delay (s) | 2.8 | 9.2 |  | 5.4 | 5.7 |  |  | 41.4 | 39.5 |  | 40.9 | 32.4 |
| Level of Service | A | A |  | A | A |  |  | D | D |  | D | C |
| Approach Delay (s) |  | 7.7 |  |  | 5.7 |  |  | 40.1 |  |  | 33.4 |  |
| Approach LOS |  | A |  |  | A |  |  | D |  |  | C |  |


| Intersection Summary |  |  |  |
| :--- | ---: | :--- | ---: |
| HCM 2000 Control Delay | 9.9 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.68 |  | 13.5 |
| Actuated Cycle Length (s) | 90.0 | Sum of lost time (s) | D |
| Intersection Capacity Utilization | $74.5 \%$ | ICU Level of Service |  |
| Analysis Period (min) | 15 |  |  |
| c Critical Lane Group |  |  |  |

[^10]Synchro 9 Report
Page 4

HCM 2010 TWSC
5: SW Nyberg Lane \& Site Access

| Intersection |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh |  |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | ${ }^{7}$ | $\uparrow$ | $\hat{\dagger}$ |  | * |  |
| Traffic Vol, veh/h | 1 | 332 | 155 | 1 | 1 | 1 |
| Future Vol, veh/h | 1 | 332 | 155 | 1 | 1 | 1 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 110 | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 97 | 97 | 97 | 97 | 97 | 97 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1 | 342 | 160 | 1 | 1 | 1 |



[^11] DS

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |

[^12]Intersection
Intersection Delay, s/veh 45
Intersection LOS E

| Movement EBU | EBL | EBT | EBR | WBU | WBL | WBT | WBR | NBU | NBL | NBT | NBR | SBU | SBL | SBT | SBR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations |  | 4 | 「 |  |  | * |  |  |  | $\uparrow$ |  |  | ${ }^{7}$ | 4 | F |
| Traffic Vol, veh/h 0 | 467 | 1 | 115 | 0 | 5 | 4 | 6 | 0 | 38 | 139 | 1 | 0 | 3 | 357 | 371 |
| Future Vol, veh/h 0 | 467 | 1 | 115 | 0 | 5 | 4 | 6 | 0 | 38 | 139 | 1 | 0 | 3 | 357 | 371 |
| Peak Hour Factor 0.92 | 0.96 | 0.96 | 0.96 | 0.92 | 0.96 | 0.96 | 0.96 | 0.92 | 0.96 | 0.96 | 0.96 | 0.92 | 0.96 | 0.96 | 0.96 |
| Heavy Vehicles, \% 2 | 1 | 1 | 1 | 2 | 0 | 0 | 0 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| Mvmt Flow 0 | 486 | 1 | 120 | 0 | 5 | 4 | 6 | 0 | 40 | 145 | 1 | 0 | 3 | 372 | 386 |
| Number of Lanes 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| Approach | EB |  |  |  | WB |  |  |  | NB |  |  |  | SB |  |  |
| Opposing Approach | WB |  |  |  | EB |  |  |  | SB |  |  |  | NB |  |  |
| Opposing Lanes | 1 |  |  |  | 2 |  |  |  | 3 |  |  |  | 1 |  |  |
| Conflicting Approach Left | SB |  |  |  | NB |  |  |  | EB |  |  |  | WB |  |  |
| Conflicting Lanes Left | 3 |  |  |  | 1 |  |  |  | 2 |  |  |  | 1 |  |  |
| Conflicting Approach Right | NB |  |  |  | SB |  |  |  | WB |  |  |  | EB |  |  |
| Conflicting Lanes Right | 1 |  |  |  | 3 |  |  |  | 1 |  |  |  | 2 |  |  |
| HCM Control Delay | 78.8 |  |  |  | 12.6 |  |  |  | 18.6 |  |  |  | 25.2 |  |  |
| HCM LOS | F |  |  |  | B |  |  |  | C |  |  |  | D |  |  |




Analysis Period (min)
c Critical Lane Group


| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | \％${ }^{*}$ | 中 ${ }^{\text {a }}$ |  | ${ }^{7}$ | 中 ${ }^{\text {a }}$ |  |  | $\uparrow$ | 「 |  | $\uparrow$ | F |
| Traffic Volume（vph） | 128 | 721 | 15 | 9 | 1046 | 60 | 61 | 4 | 1 | 50 | 2 | 34 |
| Future Volume（vph） | 128 | 721 | 15 | 9 | 1046 | 60 | 61 | 4 | 1 | 50 | 2 | 34 |
| Ideal Flow（vphpl） | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time（s） | 4.5 | 4.5 |  | 4.5 | 4.5 |  |  | 4.5 | 4.5 |  | 4.5 | 4.5 |
| Lane Util．Factor | 0.97 | 0.95 |  | 1.00 | 0.95 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Frpb，ped／bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 0.99 |  | 1.00 | 0.99 |
| Flpb，ped／bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Frt | 1.00 | 1.00 |  | 1.00 | 0.99 |  |  | 1.00 | 0.85 |  | 1.00 | 0.85 |
| Flt Protected | 0.95 | 1.00 |  | 0.95 | 1.00 |  |  | 0.95 | 1.00 |  | 0.95 | 1.00 |
| Satd．Flow（prot） | 3433 | 3526 |  | 1770 | 3511 |  |  | 1758 | 1546 |  | 1777 | 1573 |
| Flt Permitted | 0.95 | 1.00 |  | 0.95 | 1.00 |  |  | 0.70 | 1.00 |  | 0.68 | 1.00 |
| Satd．Flow（perm） | 3433 | 3526 |  | 1770 | 3511 |  |  | 1281 | 1546 |  | 1267 | 1573 |
| Peak－hour factor，PHF | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Adj．Flow（vph） | 144 | 810 | 17 | 10 | 1175 | 67 | 69 | 4 | 1 | 56 | 2 | 38 |
| RTOR Reduction（vph） | 0 | 1 | 0 | 0 | 5 | 0 | 0 | 0 | 1 | 0 | 0 | 30 |
| Lane Group Flow（vph） | 144 | 826 | 0 | 10 | 1237 | 0 | 0 | 73 | 0 | 0 | 58 | 8 |
| Confl．Peds．（\＃／hr） |  |  | 4 | 4 |  |  | 2 |  |  |  |  | 2 |
| Confl．Bikes（\＃／hr） |  |  |  |  |  |  |  |  | 1 |  |  |  |
| Heavy Vehicles（\％） | 2\％ | 2\％ | 2\％ | 2\％ | 2\％ | 2\％ | 3\％ | 3\％ | 3\％ | 2\％ | 2\％ | 2\％ |
| Turn Type | Prot | NA |  | Prot | NA |  | Perm | NA | Perm | Perm | NA | $\mathrm{pm}+\mathrm{ov}$ |
| Protected Phases | 5 | 2 |  | 1 | 6 |  |  | ， |  |  | 8 | 5 |
| Permitted Phases |  |  |  |  |  |  | 4 |  | 4 | 8 |  | 8 |
| Actuated Green，G（s） | 7.2 | 39.1 |  | 1.4 | 33.3 |  |  | 6.0 | 6.0 |  | 6.0 | 13.2 |
| Effective Green， g （s） | 7.2 | 39.1 |  | 1.4 | 33.3 |  |  | 6.0 | 6.0 |  | 6.0 | 13.2 |
| Actuated g／C Ratio | 0.12 | 0.65 |  | 0.02 | 0.55 |  |  | 0.10 | 0.10 |  | 0.10 | 0.22 |
| Clearance Time（s） | 4.5 | 4.5 |  | 4.5 | 4.5 |  |  | 4.5 | 4.5 |  | 4.5 | 4.5 |
| Vehicle Extension（s） | 3.0 | 3.0 |  | 3.0 | 3.0 |  |  | 3.0 | 3.0 |  | 3.0 | 3.0 |
| Lane Grp Cap（vph） | 411 | 2297 |  | 41 | 1948 |  |  | 128 | 154 |  | 126 | 464 |
| v／s Ratio Prot | 0.04 | c0．23 |  | 0.01 | c0．35 |  |  |  |  |  |  | 0.00 |
| $\mathrm{v} / \mathrm{s}$ Ratio Perm |  |  |  |  |  |  |  | c0．06 | 0.00 |  | 0.05 | 0.00 |
| v／c Ratio | 0.35 | 0.36 |  | 0.24 | 0.64 |  |  | 0.57 | 0.00 |  | 0.46 | 0.02 |
| Uniform Delay，d1 | 24.3 | 4.8 |  | 28.8 | 9.2 |  |  | 25.8 | 24.3 |  | 25.5 | 18.3 |
| Progression Factor | 0.75 | 0.87 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Incremental Delay，d2 | 0.5 | 0.4 |  | 3.1 | 0.7 |  |  | 6.0 | 0.0 |  | 2.7 | 0.0 |
| Delay（s） | 18.6 | 4.6 |  | 31.9 | 9.9 |  |  | 31.8 | 24.3 |  | 28.1 | 18.3 |
| Level of Service | B | A |  | C | A |  |  | C | C |  | C | B |
| Approach Delay（s） |  | 6.6 |  |  | 10.0 |  |  | 31.7 |  |  | 24.3 |  |


| Approach LOS A B C | B |
| :--- | :--- | :--- | :--- | :--- |


| Intersection Summary |  |  |  |
| :--- | ---: | :--- | ---: |
| HCM 2000 Control Delay | 9.9 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.60 |  | 13.5 |
| Actuated Cycle Length（s） | 60.0 | Sum of lost time（s） | B |
| Intersection Capacity Utilization | $56.5 \%$ | ICU Level of Service |  |
| Analysis Period（min） | 15 |  |  |
| C Critical Lane Group |  |  |  |


| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | ${ }^{*}$ | $\hat{+}$ |  | \% | 性 |  |  | $\uparrow$ | F' |  | $\uparrow$ | ${ }^{7}$ |
| Traffic Volume (vph) | 101 | 625 | 22 | 37 | 778 | 25 | 15 | 4 | 35 | 11 | 6 | 239 |
| Future Volume (vph) | 101 | 625 | 22 | 37 | 778 | 25 | 15 | 4 | 35 | 11 | 6 | 239 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  |  | 4.5 | 4.5 |  | 4.5 | 4.5 |
| Lane Util. Factor | 1.00 | 1.00 |  | 1.00 | 0.95 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Frpb, ped/bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 0.98 |  | 1.00 | 1.00 |
| Flpb, ped/bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Frt | 1.00 | 0.99 |  | 1.00 | 1.00 |  |  | 1.00 | 0.85 |  | 1.00 | 0.85 |
| Flt Protected | 0.95 | 1.00 |  | 0.95 | 1.00 |  |  | 0.96 | 1.00 |  | 0.97 | 1.00 |
| Satd. Flow (prot) | 1770 | 1852 |  | 1768 | 3523 |  |  | 1821 | 1580 |  | 1840 | 1608 |
| Flt Permitted | 0.24 | 1.00 |  | 0.38 | 1.00 |  |  | 0.86 | 1.00 |  | 0.80 | 1.00 |
| Satd. Flow (perm) | 455 | 1852 |  | 703 | 3523 |  |  | 1633 | 1580 |  | 1510 | 1608 |
| Peak-hour factor, PHF | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Adj. Flow (vph) | 112 | 694 | 24 | 41 | 864 | 28 | 17 | 4 | 39 | 12 | 7 | 266 |
| RTOR Reduction (vph) | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 36 | 0 | 0 | 45 |
| Lane Group Flow (vph) | 112 | 717 | 0 | 41 | 889 | 0 | 0 | 21 | 3 | 0 | 19 | 221 |
| Confl. Peds. (\#/hr) |  |  | 3 | 3 |  |  | 3 |  | 1 | 1 |  | 3 |
| Confl. Bikes (\#/hr) |  |  | 1 |  |  |  |  |  |  |  |  |  |
| Heavy Vehicles (\%) | 2\% | 2\% | 2\% | 2\% | 2\% | 2\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% |
| Turn Type | pm+pt | NA |  | pm+pt | NA |  | Perm | NA | Perm | Perm | NA | $\mathrm{pm}+\mathrm{ov}$ |
| Protected Phases | 5 | 2 |  | 1 | 6 |  |  | 4 |  |  | 8 | 5 |
| Permitted Phases | 2 |  |  | 6 |  |  | 4 |  | 4 | 8 |  | 8 |
| Actuated Green, G (s) | 51.8 | 44.8 |  | 39.8 | 37.3 |  |  | 4.2 | 4.2 |  | 4.2 | 14.2 |
| Effective Green, g (s) | 51.8 | 44.8 |  | 39.8 | 37.3 |  |  | 4.2 | 4.2 |  | 4.2 | 14.2 |
| Actuated g/C Ratio | 0.80 | 0.69 |  | 0.61 | 0.57 |  |  | 0.06 | 0.06 |  | 0.06 | 0.22 |
| Clearance Time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  |  | 4.5 | 4.5 |  | 4.5 | 4.5 |
| Vehicle Extension (s) | 3.0 | 3.0 |  | 3.0 | 3.0 |  |  | 3.0 | 3.0 |  | 3.0 | 3.0 |
| Lane Grp Cap (vph) | 564 | 1276 |  | 471 | 2021 |  |  | 105 | 102 |  | 97 | 462 |
| v/s Ratio Prot | 0.03 | c0.39 |  | 0.00 | 0.25 |  |  |  |  |  |  | c0.07 |
| $\mathrm{v} / \mathrm{s}$ Ratio Perm | 0.13 |  |  | 0.05 |  |  |  | 0.01 | 0.00 |  | 0.01 | 0.06 |
| v/c Ratio | 0.20 | 0.56 |  | 0.09 | 0.44 |  |  | 0.20 | 0.02 |  | 0.20 | 0.48 |
| Uniform Delay, d1 | 2.3 | 5.1 |  | 5.0 | 7.9 |  |  | 28.8 | 28.5 |  | 28.8 | 22.2 |
| Progression Factor | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Incremental Delay, d2 | 0.2 | 1.8 |  | 0.1 | 0.2 |  |  | 0.9 | 0.1 |  | 1.0 | 0.8 |
| Delay (s) | 2.5 | 6.9 |  | 5.1 | 8.1 |  |  | 29.7 | 28.6 |  | 29.8 | 22.9 |
| Level of Service | A | A |  | A | A |  |  | C | C |  | C | C |
| Approach Delay (s) |  | 6.3 |  |  | 7.9 |  |  | 29.0 |  |  | 23.4 |  |
| Approach LOS |  | A |  |  | A |  |  | C |  |  | C |  |


| Intersection Summary |  |  |  |
| :--- | ---: | :--- | ---: |
| HCM 2000 Control Delay | 10.0 | HCM 2000 Level of Service | A |
| HCM 2000 Volume to Capacity ratio | 0.61 |  | 13.5 |
| Actuated Cycle Length (s) | 65.0 | Sum of lost time (s) | B |
| Intersection Capacity Utilization | $58.0 \%$ | ICU Level of Service |  |
| Analysis Period (min) | 15 |  |  |
| c Critical Lane Group |  |  |  |

HCM 2010 TWSC
5: SW Nyberg Lane \& Site Access

|  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\frac{\text { Intersection }}{\text { In Delay s/veh }} 0$ |  |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | ${ }^{7}$ | ¢ | $\hat{1}$ |  | * |  |
| Traffic Vol, veh/h | 1 | 130 | 256 | 1 | 1 | 1 |
| Future Vol, veh/h | 1 | 130 | 256 | 1 | 1 | 1 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 110 | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1 | 144 | 284 | 1 | 1 | 1 |



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |


| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | * | F |  | \% | F |  | ${ }^{7}$ | $\hat{\beta}$ |  | ${ }^{7}$ | $\uparrow$ | F |
| Traffic Volume (vph) | 375 | 3 | 68 | 5 | 12 | 27 | 115 | 334 | 10 | 16 | 129 | 393 |
| Future Volume (vph) | 375 | 3 | 68 | 5 | 12 | 27 | 115 | 334 | 10 | 16 | 129 | 393 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  | 4.5 | 4.5 |  | 4.5 | 4.5 | 4.5 |
| Lane Util. Factor | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 | 1.00 |
| Frpb, ped/bikes | 1.00 | 0.98 |  | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 | 0.98 |
| Flpb, ped/bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 | 1.00 |
| Frt | 1.00 | 0.86 |  | 1.00 | 0.90 |  | 1.00 | 1.00 |  | 1.00 | 1.00 | 0.85 |
| Flt Protected | 0.95 | 1.00 |  | 0.95 | 1.00 |  | 0.95 | 1.00 |  | 0.95 | 1.00 | 1.00 |
| Satd. Flow (prot) | 1719 | 1511 |  | 1797 | 1700 |  | 1768 | 1854 |  | 1751 | 1845 | 1534 |
| Flt Permitted | 0.73 | 1.00 |  | 0.71 | 1.00 |  | 0.67 | 1.00 |  | 0.42 | 1.00 | 1.00 |
| Satd. Flow (perm) | 1323 | 1511 |  | 1342 | 1700 |  | 1250 | 1854 |  | 783 | 1845 | 1534 |
| Peak-hour factor, PHF | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Adj. Flow (vph) | 387 | 3 | 70 | 5 | 12 | 28 | 119 | 344 | 10 | 16 | 133 | 405 |
| RTOR Reduction (vph) | 0 | 46 | 0 | 0 | 18 | 0 | 0 | 2 | 0 | 0 | 0 | 281 |
| Lane Group Flow (vph) | 387 | 27 | 0 | 5 | 22 | 0 | 119 | 352 | 0 | 16 | 133 | 124 |
| Confl. Peds. (\#/hr) |  |  | 3 | 3 |  |  | 1 |  | 3 | 3 |  | 1 |
| Confl. Bikes (\#/hr) |  |  | 1 |  |  |  |  |  |  |  |  |  |
| Heavy Vehicles (\%) | 5\% | 5\% | 5\% | 0\% | 0\% | 0\% | 2\% | 2\% | 2\% | 3\% | 3\% | 3\% |
| Turn Type | Perm | NA |  | Perm | NA |  | pm+pt | NA |  | pm+pt | NA | Perm |
| Protected Phases |  | 4 |  |  | 8 |  | 5 | 2 |  | 1 | 6 |  |
| Permitted Phases | 4 |  |  | 8 |  |  | 2 |  |  | 6 |  | 6 |
| Actuated Green, G (s) | 20.9 | 20.9 |  | 20.9 | 20.9 |  | 30.1 | 24.6 |  | 19.4 | 18.4 | 18.4 |
| Effective Green, g (s) | 20.9 | 20.9 |  | 20.9 | 20.9 |  | 30.1 | 24.6 |  | 19.4 | 18.4 | 18.4 |
| Actuated g/C Ratio | 0.35 | 0.35 |  | 0.35 | 0.35 |  | 0.50 | 0.41 |  | 0.32 | 0.31 | 0.31 |
| Clearance Time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  | 4.5 | 4.5 |  | 4.5 | 4.5 | 4.5 |
| Vehicle Extension (s) | 3.0 | 3.0 |  | 3.0 | 3.0 |  | 3.0 | 3.0 |  | 3.0 | 3.0 | 3.0 |
| Lane Grp Cap (vph) | 460 | 526 |  | 467 | 592 |  | 689 | 760 |  | 269 | 565 | 470 |
| v/s Ratio Prot |  | 0.02 |  |  | 0.01 |  | c0.02 | c0.19 |  | 0.00 | 0.07 |  |
| v/s Ratio Perm | c0.29 |  |  | 0.00 |  |  | 0.07 |  |  | 0.02 |  | 0.08 |
| $\mathrm{v} / \mathrm{c}$ Ratio | 0.84 | 0.05 |  | 0.01 | 0.04 |  | 0.17 | 0.46 |  | 0.06 | 0.24 | 0.26 |
| Uniform Delay, d1 | 18.0 | 13.0 |  | 12.8 | 12.9 |  | 8.2 | 12.9 |  | 17.0 | 15.5 | 15.7 |
| Progression Factor | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 | 1.00 |
| Incremental Delay, d2 | 13.0 | 0.0 |  | 0.0 | 0.0 |  | 0.1 | 2.0 |  | 0.1 | 1.0 | 1.4 |
| Delay (s) | 31.1 | 13.0 |  | 12.8 | 12.9 |  | 8.4 | 14.9 |  | 17.1 | 16.5 | 17.1 |
| Level of Service | C | B |  | B | B |  | A | B |  | B | B | B |
| Approach Delay (s) |  | 28.2 |  |  | 12.9 |  |  | 13.3 |  |  | 16.9 |  |
| Approach LOS |  | C |  |  | B |  |  | B |  |  | B |  |


| Intersection Summary |  |  |  |
| :--- | ---: | :--- | ---: |
| HCM 2000 Control Delay | 19.1 | HCM 2000 Level of Service | B |
| HCM 2000 Volume to Capacity ratio | 0.64 |  | 13.5 |
| Actuated Cycle Length (s) | 60.0 | Sum of lost time (s) | B |
| Intersection Capacity Utilization | $61.1 \%$ | ICU Level of Service |  |
| Analysis Period (min) | 15 |  |  |
| c Critical Lane Group |  |  |  |


|  | $\stackrel{ }{*}$ |  |  | $\checkmark$ |  |  |  | $\dagger$ |  |  | $\downarrow$ | $\downarrow$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  | 帆 | 「 | \％ | ¢4 |  |  |  |  | \％ | $\uparrow$ | 「 ${ }^{\text {F }}$ |
| Traffic Volume（vph） | 0 | 1423 | 754 | 90 | 1129 | 0 | 0 | 0 | 0 | 935 | 10 | 1298 |
| Future Volume（vph） | 0 | 1423 | 754 | 90 | 1129 | 0 | 0 | 0 | 0 | 935 | 10 | 1298 |
| Ideal Flow（vphpl） | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time（s） |  | 4.5 | 4.5 | 4.5 | 4.5 |  |  |  |  | 4.5 | 4.5 | 4.5 |
| Lane Util．Factor |  | 0.91 | 1.00 | 1.00 | 0.95 |  |  |  |  | 0.95 | 0.95 | 0.88 |
| Frpb，ped／bikes |  | 1.00 | 1.00 | 1.00 | 1.00 |  |  |  |  | 1.00 | 1.00 | 1.00 |
| Flpb，ped／bikes |  | 1.00 | 1.00 | 1.00 | 1.00 |  |  |  |  | 1.00 | 1.00 | 1.00 |
| Frt |  | 1.00 | 0.85 | 1.00 | 1.00 |  |  |  |  | 1.00 | 1.00 | 0.85 |
| FIt Protected |  | 1.00 | 1.00 | 0.95 | 1.00 |  |  |  |  | 0.95 | 0.95 | 1.00 |
| Satd．Flow（prot） |  | 5085 | 1583 | 1736 | 3471 |  |  |  |  | 1681 | 1687 | 2787 |
| Flt Permitted |  | 1.00 | 1.00 | 0.95 | 1.00 |  |  |  |  | 0.95 | 0.95 | 1.00 |
| Satd．Flow（perm） |  | 5085 | 1583 | 1736 | 3471 |  |  |  |  | 1681 | 1687 | 2787 |
| Peak－hour factor，PHF | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Adj．Flow（vph） | 0 | 1498 | 794 | 95 | 1188 | 0 | 0 | 0 | 0 | 984 | 11 | 1366 |
| RTOR Reduction（vph） | 0 | 0 | 537 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| Lane Group Flow（vph） | 0 | 1498 | 257 | 95 | 1188 | 0 | 0 | 0 | 0 | 502 | 493 | 1338 |
| Confl．Peds．（\＃／hr） | 7 |  |  |  |  | 7 |  |  |  |  |  |  |
| Heavy Vehicles（\％） | 2\％ | 2\％ | 2\％ | 4\％ | 4\％ | 4\％ | 0\％ | 0\％ | 0\％ | 2\％ | 2\％ | 2\％ |
| Turn Type |  | NA | Perm | Prot | NA |  |  |  |  | Perm | NA | Perm |
| Protected Phases |  | ， |  | 1 | 6 |  |  |  |  |  | ， |  |
| Permitted Phases |  |  | 2 |  |  |  |  |  |  |  |  | 4 |
| Actuated Green，G（s） |  | 38.9 | 38.9 | 8.1 | 51.5 |  |  |  |  | 59.5 | 59.5 | 59.5 |
| Effective Green， g （s） |  | 38.9 | 38.9 | 8.1 | 51.5 |  |  |  |  | 59.5 | 59.5 | 59.5 |
| Actuated g／C Ratio |  | 0.32 | 0.32 | 0.07 | 0.43 |  |  |  |  | 0.50 | 0.50 | 0.50 |
| Clearance Time（s） |  | 4.5 | 4.5 | 4.5 | 4.5 |  |  |  |  | 4.5 | 4.5 | 4.5 |
| Vehicle Extension（s） |  | 3.0 | 3.0 | 3.0 | 3.0 |  |  |  |  | 3.0 | 3.0 | 3.0 |
| Lane Grp Cap（vph） |  | 1648 | 513 | 117 | 1489 |  |  |  |  | 833 | 836 | 1381 |
| v／s Ratio Prot |  | c0．29 |  | 0.05 | c0．34 |  |  |  |  |  |  |  |
| v／s Ratio Perm |  |  | 0.16 |  |  |  |  |  |  | 0.30 | 0.29 | c0．48 |
| $\mathrm{v} / \mathrm{c}$ Ratio |  | 0.91 | 0.50 | 0.81 | 0.80 |  |  |  |  | 0.60 | 0.59 | 0.97 |
| Uniform Delay，d1 |  | 38.9 | 32.7 | 55.2 | 29.7 |  |  |  |  | 21.8 | 21.6 | 29.4 |
| Progression Factor |  | 1.00 | 1.00 | 1.00 | 1.00 |  |  |  |  | 1.00 | 1.00 | 1.00 |
| Incremental Delay，d2 |  | 7.7 | 0.8 | 33.2 | 4.5 |  |  |  |  | 1.2 | 1.1 | 17.1 |
| Delay（s） |  | 46.6 | 33.5 | 88.4 | 34.3 |  |  |  |  | 23.0 | 22.6 | 46.5 |
| Level of Service |  | D | C | F | C |  |  |  |  | C | C | D |
| Approach Delay（s） |  | 42.0 |  |  | 38.3 |  |  | 0.0 |  |  | 36.5 |  |
| Approach LOS |  | D |  |  | D |  |  | A |  |  | D |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| HCM 2000 Control Delay |  |  | 39.0 |  | HCM 2000 | Level of | ervice |  | D |  |  |  |
| HCM 2000 Volume to Capacity ratio |  |  | 0.95 |  |  |  |  |  |  |  |  |  |
| Actuated Cycle Length（s） |  |  | 120.0 |  | Sum of lost | time（s） |  |  | 13.5 |  |  |  |
| Intersection Capacity Utilization |  |  | 89．1\％ |  | CU Level | fervice |  |  | E |  |  |  |
| Analysis Period（min） |  |  | 15 |  |  |  |  |  |  |  |  |  |
| c Critical Lane Group |  |  |  |  |  |  |  |  |  |  |  |  |

c Critical Lane Group

c Critical Lane Group

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | \% ${ }^{*}$ | 个t |  | ${ }^{7}$ | 性 |  |  | $\uparrow$ | F |  | $\uparrow$ | F |
| Traffic Volume (vph) | 237 | 1264 | 54 | 11 | 882 | 61 | 74 | 12 | 9 | 108 | 5 | 150 |
| Future Volume (vph) | 237 | 1264 | 54 | 11 | 882 | 61 | 74 | 12 | 9 | 108 | 5 | 150 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  |  | 4.5 | 4.5 |  | 4.5 | 4.5 |
| Lane Util. Factor | 0.97 | 0.95 |  | 1.00 | 0.95 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Frpb, ped/bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 0.99 |
| Flpb, ped/bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Frt | 1.00 | 0.99 |  | 1.00 | 0.99 |  |  | 1.00 | 0.85 |  | 1.00 | 0.85 |
| Flt Protected | 0.95 | 1.00 |  | 0.95 | 1.00 |  |  | 0.96 | 1.00 |  | 0.95 | 1.00 |
| Satd. Flow (prot) | 3467 | 3549 |  | 1770 | 3500 |  |  | 1817 | 1615 |  | 1795 | 1586 |
| Flt Permitted | 0.95 | 1.00 |  | 0.95 | 1.00 |  |  | 0.67 | 1.00 |  | 0.67 | 1.00 |
| Satd. Flow (perm) | 3467 | 3549 |  | 1770 | 3500 |  |  | 1278 | 1615 |  | 1258 | 1586 |
| Peak-hour factor, PHF | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Adj. Flow (vph) | 252 | 1345 | 57 | 12 | 938 | 65 | 79 | 13 | 10 | 115 | 5 | 160 |
| RTOR Reduction (vph) | 0 | 3 | 0 | 0 | 7 | 0 | 0 | 0 | 8 | 0 | 0 | 71 |
| Lane Group Flow (vph) | 252 | 1399 | 0 | 12 | 996 | 0 | 0 | 92 | 2 | 0 | 120 | 89 |
| Confl. Peds. (\#/hr) | 9 |  | 2 | 2 |  | 9 | 3 |  |  |  |  | 3 |
| Confl. Bikes (\#/hr) |  |  | 1 |  |  | 2 |  |  |  |  |  |  |
| Heavy Vehicles (\%) | 1\% | 1\% | 1\% | 2\% | 2\% | 2\% | 0\% | 0\% | 0\% | 1\% | 1\% | 1\% |
| Turn Type | Prot | NA |  | Prot | NA |  | Perm | NA | Perm | Perm | NA | $\mathrm{pm}+\mathrm{ov}$ |
| Protected Phases | 5 | 2 |  | 1 | 6 |  |  | 4 |  |  | 8 | 5 |
| Permitted Phases |  |  |  |  |  |  | 4 |  | 4 | 8 |  | 8 |
| Actuated Green, G (s) | 9.2 | 40.3 |  | 1.0 | 32.1 |  |  | 10.2 | 10.2 |  | 10.2 | 19.4 |
| Effective Green, g (s) | 9.2 | 40.3 |  | 1.0 | 32.1 |  |  | 10.2 | 10.2 |  | 10.2 | 19.4 |
| Actuated g/C Ratio | 0.14 | 0.62 |  | 0.02 | 0.49 |  |  | 0.16 | 0.16 |  | 0.16 | 0.30 |
| Clearance Time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  |  | 4.5 | 4.5 |  | 4.5 | 4.5 |
| Vehicle Extension (s) | 3.0 | 3.0 |  | 3.0 | 3.0 |  |  | 3.0 | 3.0 |  | 3.0 | 3.0 |
| Lane Grp Cap (vph) | 490 | 2200 |  | 27 | 1728 |  |  | 200 | 253 |  | 197 | 583 |
| v/s Ratio Prot | 0.07 | c0.39 |  | 0.01 | c0.28 |  |  |  |  |  |  | 0.02 |
| v/s Ratio Perm |  |  |  |  |  |  |  | 0.07 | 0.00 |  | c0.10 | 0.03 |
| v/c Ratio | 0.51 | 0.64 |  | 0.44 | 0.58 |  |  | 0.46 | 0.01 |  | 0.61 | 0.15 |
| Uniform Delay, d1 | 25.8 | 7.7 |  | 31.7 | 11.6 |  |  | 24.9 | 23.1 |  | 25.5 | 16.8 |
| Progression Factor | 1.23 | 0.83 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Incremental Delay, d2 | 0.7 | 1.0 |  | 11.2 | 0.5 |  |  | 1.7 | 0.0 |  | 5.3 | 0.1 |
| Delay (s) | 32.5 | 7.4 |  | 43.0 | 12.1 |  |  | 26.6 | 23.1 |  | 30.8 | 16.9 |
| Level of Service | C | A |  | D | B |  |  | C | C |  | C | B |
| Approach Delay (s) |  | 11.3 |  |  | 12.5 |  |  | 26.2 |  |  | 22.8 |  |
| Approach LOS |  | B |  |  | B |  |  | C |  |  | C |  |


| Intersection Summary |  |  |  |
| :--- | ---: | :--- | ---: |
| HCM 2000 Control Delay | 13.2 | HCM 2000 Level of Service | B |
| HCM 2000 Volume to Capacity ratio | 0.66 |  | 13.5 |
| Actuated Cycle Length (s) | 65.0 | Sum of lost time (s) | C |
| Intersection Capacity Utilization | $65.2 \%$ | ICU Level of Service |  |
| Analysis Period (min) | 15 |  |  |
| c Critical Lane Group |  |  |  |


|  | 4 |  |  | 7 |  |  | 4 | 4 | $p$ |  | $\downarrow$ | $\checkmark$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | \% | $\hat{\beta}$ |  | \% | 个t |  |  | $\uparrow$ | 「 |  | $\uparrow$ | 7 |
| Traffic Volume (vph) | 315 | 988 | 30 | 33 | 765 | 19 | 16 | 11 | 57 | 16 | 4 | 141 |
| Future Volume (vph) | 315 | 988 | 30 | 33 | 765 | 19 | 16 | 11 | 57 | 16 | 4 | 141 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  |  | 4.5 | 4.5 |  | 4.5 | 4.5 |
| Lane Util. Factor | 1.00 | 1.00 |  | 1.00 | 0.95 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Frpb, ped/bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 0.97 |  | 1.00 | 0.99 |
| Flpb, ped/bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Frt | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 0.85 |  | 1.00 | 0.85 |
| Flt Protected | 0.95 | 1.00 |  | 0.95 | 1.00 |  |  | 0.97 | 1.00 |  | 0.96 | 1.00 |
| Satd. Flow (prot) | 1787 | 1871 |  | 1770 | 3524 |  |  | 1839 | 1574 |  | 1827 | 1603 |
| Flt Permitted | 0.30 | 1.00 |  | 0.18 | 1.00 |  |  | 0.81 | 1.00 |  | 0.75 | 1.00 |
| Satd. Flow (perm) | 563 | 1871 |  | 343 | 3524 |  |  | 1527 | 1574 |  | 1426 | 1603 |
| Peak-hour factor, PHF | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Adj. Flow (vph) | 325 | 1019 | 31 | 34 | 789 | 20 | 16 | 11 | 59 | 16 | 4 | 145 |
| RTOR Reduction (vph) | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 55 | 0 | 0 | 81 |
| Lane Group Flow (vph) | 325 | 1049 | 0 | 34 | 808 | 0 | 0 | 27 | 4 | 0 | 20 | 64 |
| Confl. Peds. (\#/hr) | 2 |  | 9 | - |  | 2 | 4 |  |  |  |  | 4 |
| Confl. Bikes (\#/hr) |  |  |  |  |  |  |  |  | 1 |  |  | 1 |
| Heavy Vehicles (\%) | 1\% | 1\% | 1\% | 2\% | 2\% | 2\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% |
| Turn Type | pm+pt | NA |  | pm+pt | NA |  | Perm | NA | Perm | Perm | NA | pm+ov |
| Protected Phases | 5 | 2 |  | 1 | 6 |  |  | 4 |  |  | 8 | 5 |
| Permitted Phases | 2 |  |  | 6 |  |  | 4 |  | 4 | 8 |  | 8 |
| Actuated Green, G (s) | 75.1 | 67.0 |  | 64.9 | 61.3 |  |  | 5.9 | 5.9 |  | 5.9 | 15.2 |
| Effective Green, g (s) | 75.1 | 67.0 |  | 64.9 | 61.3 |  |  | 5.9 | 5.9 |  | 5.9 | 15.2 |
| Actuated g/C Ratio | 0.83 | 0.74 |  | 0.72 | 0.68 |  |  | 0.07 | 0.07 |  | 0.07 | 0.17 |
| Clearance Time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  |  | 4.5 | 4.5 |  | 4.5 | 4.5 |
| Vehicle Extension (s) | 3.0 | 3.0 |  | 3.0 | 3.0 |  |  | 3.0 | 3.0 |  | 3.0 | 3.0 |
| Lane Grp Cap (vph) | 596 | 1392 |  | 304 | 2400 |  |  | 100 | 103 |  | 93 | 350 |
| $\mathrm{v} / \mathrm{s}$ Ratio Prot | c0.06 | c0.56 |  | 0.00 | 0.23 |  |  |  |  |  |  | 0.02 |
| $\mathrm{v} / \mathrm{s}$ Ratio Perm | 0.40 |  |  | 0.08 |  |  |  | c0.02 | 0.00 |  | 0.01 | 0.02 |
| v/c Ratio | 0.55 | 0.75 |  | 0.11 | 0.34 |  |  | 0.27 | 0.04 |  | 0.22 | 0.18 |
| Uniform Delay, d1 | 2.4 | 6.7 |  | 6.4 | 5.9 |  |  | 40.0 | 39.4 |  | 39.9 | 32.1 |
| Progression Factor | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Incremental Delay, d2 | 1.0 | 3.8 |  | 0.2 | 0.1 |  |  | 1.5 | 0.1 |  | 1.2 | 0.3 |
| Delay (s) | 3.4 | 10.5 |  | 6.6 | 6.0 |  |  | 41.5 | 39.5 |  | 41.0 | 32.3 |
| Level of Service | A | B |  | A | A |  |  | D | D |  | D | C |
| Approach Delay (s) |  | 8.8 |  |  | 6.0 |  |  | 40.1 |  |  | 33.4 |  |
| Approach LOS |  | A |  |  | A |  |  | D |  |  | C |  |


| Intersection Summary |  |  |  |
| :--- | ---: | :--- | ---: |
| HCM 2000 Control Delay | 10.6 | HCM 2000 Level of Service | B |
| HCM 2000 Volume to Capacity ratio | 0.72 |  | 13.5 |
| Actuated Cycle Length (s) | 90.0 | Sum of lost time (s) | D |
| Intersection Capacity Utilization | $77.9 \%$ | ICU Level of Service |  |
| Analysis Period (min) | 15 |  |  |
| C Critical Lane Group |  |  |  |

HCM 2010 TWSC
5: SW Nyberg Lane \& Site Access

| Intersection |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh |  |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | ${ }^{7}$ | $\uparrow$ | $\hat{1}$ |  | M |  |
| Traffic Vol, veh/h | 1 | 345 | 161 | 1 | 1 | 1 |
| Future Vol, veh/h | 1 | 345 | 161 | 1 | 1 | 1 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 110 | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 97 | 97 | 97 | 97 | 97 | 97 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1 | 356 | 166 | 1 | 1 | 1 |




[^13]| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | ${ }^{7}$ | $\uparrow$ |  | \% | F |  | ${ }^{7}$ | F |  | \% | $\uparrow$ | F |
| Traffic Volume (vph) | 486 | 10 | 120 | , | 9 | 22 | 40 | 145 | 6 | 25 | 371 | 386 |
| Future Volume (vph) | 486 | 10 | 120 | 8 | 9 | 22 | 40 | 145 | 6 | 25 | 371 | 386 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  | 4.5 | 4.5 |  | 4.5 | 4.5 | 4.5 |
| Lane Util. Factor | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 | 1.00 |
| Frpb, ped/bikes | 1.00 | 0.98 |  | 1.00 | 0.98 |  | 1.00 | 1.00 |  | 1.00 | 1.00 | 0.96 |
| Flpb, ped/bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 | 1.00 |
| Frt | 1.00 | 0.86 |  | 1.00 | 0.89 |  | 1.00 | 0.99 |  | 1.00 | 1.00 | 0.85 |
| Flt Protected | 0.95 | 1.00 |  | 0.95 | 1.00 |  | 0.95 | 1.00 |  | 0.95 | 1.00 | 1.00 |
| Satd. Flow (prot) | 1787 | 1580 |  | 1800 | 1669 |  | 1783 | 1869 |  | 1766 | 1863 | 1523 |
| Flt Permitted | 0.74 | 1.00 |  | 0.67 | 1.00 |  | 0.35 | 1.00 |  | 0.66 | 1.00 | 1.00 |
| Satd. Flow (perm) | 1385 | 1580 |  | 1270 | 1669 |  | 658 | 1869 |  | 1222 | 1863 | 1523 |
| Peak-hour factor, PHF | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 |
| Adj. Flow (vph) | 506 | 10 | 125 | 8 | 9 | 23 | 42 | 151 | 6 | 26 | 386 | 402 |
| RTOR Reduction (vph) | 0 | 75 | 0 | 0 | 14 | 0 | 0 | 2 | 0 | 0 | 0 | 138 |
| Lane Group Flow (vph) | 506 | 60 | 0 | 8 | 18 | 0 | 42 | 155 | 0 | 26 | 386 | 264 |
| Confl. Peds. (\#/hr) |  |  | 2 | 2 |  |  | 9 |  | 2 | 2 |  | 9 |
| Confl. Bikes (\#/hr) |  |  | 3 |  |  | 2 |  |  |  |  |  | 2 |


|  | $1 \%$ | $1 \%$ | $1 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $1 \%$ | $1 \%$ | $1 \%$ | $2 \%$ | $2 \%$ | $2 \%$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Heavy Vehicles (\%) | Perm | NA | Perm | NA | pm+pt | NA | pm+pt | NA | Perm |  |  |  |


| Permitted Phases | 4 |  | 8 |  | 2 |  | 6 |  | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Actuated Green, G (s) | 25.9 | 25.9 | 25.9 | 25.9 | 26.6 | 23.6 | 24.6 | 22.6 | 22.6 |
| Effective Green, g(s) | 25.9 | 25.9 | 25.9 | 25.9 | 26.6 | 23.6 | 24.6 | 22.6 | 22.6 |
| Actuated g/C Ratio | 0.40 | 0.40 | 0.40 | 0.40 | 0.41 | 0.36 | 0.38 | 0.35 | 0.35 |
| Clearance Time (s) | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| Lane Grp Cap (vph) | 551 | 629 | 506 | 665 | 321 | 678 | 479 | 647 | 529 |
| v/s Ratio Prot |  | 0.04 |  | 0.01 | c0.01 | 0.08 | 0.00 | c0.21 |  |
| v/s Ratio Perm | c0.37 |  | 0.01 |  | 0.05 |  | 0.02 |  | 0.17 |
| v/c Ratio | 0.92 | 0.10 | 0.02 | 0.03 | 0.13 | 0.23 | 0.05 | 0.60 | 0.50 |
| Uniform Delay, d1 | 18.5 | 12.2 | 11.8 | 11.9 | 12.1 | 14.4 | 12.7 | 17.4 | 16.7 |
| Progression Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Incremental Delay, d2 | 20.3 | 0.1 | 0.0 | 0.0 | 0.2 | 0.8 | 0.0 | 4.0 | 3.3 |
| Delay (s) | 38.8 | 12.3 | 11.8 | 11.9 | 12.3 | 15.2 | 12.8 | 21.5 | 20.1 |
| Level of Service | D | B | B | B | B | B | B | C | C |
| Approach Delay (s) |  | 33.2 |  | 11.9 |  | 14.6 |  | 20.5 |  |

$\begin{array}{ccccc}\text { Approach LOS C B } & \text { B }\end{array}$

| Intersection Summary |  |  |  |
| :--- | ---: | :--- | ---: |
| HCM 2000 Control Delay | 24.4 | HCM 2000 Level of Service | C |
| HCM 2000 Volume to Capacity ratio | 0.73 |  | 13.5 |
| Actuated Cycle Length (s) | 65.0 | Sum of lost time (s) | C |
| Intersection Capacity Utilization | $68.5 \%$ | ICU Level of Service |  |
| Analysis Period (min) | 15 |  |  |
| c Critical Lane Group |  |  |  |



Analysis Period (min)
c Critical Lane Group

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |


| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | \% ${ }^{1 / 2}$ | 个 ${ }^{\text {a }}$ |  | ${ }^{7}$ | 性 |  |  | $\uparrow$ | F' |  | $\uparrow$ | F |
| Traffic Volume (vph) | 128 | 744 | 15 | 9 | 1130 | 66 | 61 | 4 | 1 | 51 | 2 | 34 |
| Future Volume (vph) | 128 | 744 | 15 | 9 | 1130 | 66 | 61 | 4 | 1 | 51 | 2 | 34 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  |  | 4.5 | 4.5 |  | 4.5 | 4.5 |
| Lane Util. Factor | 0.97 | 0.95 |  | 1.00 | 0.95 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Frpb, ped/bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 0.99 |  | 1.00 | 0.99 |
| Flpb, ped/bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Frt | 1.00 | 1.00 |  | 1.00 | 0.99 |  |  | 1.00 | 0.85 |  | 1.00 | 0.85 |
| Flt Protected | 0.95 | 1.00 |  | 0.95 | 1.00 |  |  | 0.95 | 1.00 |  | 0.95 | 1.00 |
| Satd. Flow (prot) | 3433 | 3527 |  | 1770 | 3510 |  |  | 1758 | 1546 |  | 1777 | 1573 |
| Flt Permitted | 0.95 | 1.00 |  | 0.95 | 1.00 |  |  | 0.69 | 1.00 |  | 0.68 | 1.00 |
| Satd. Flow (perm) | 3433 | 3527 |  | 1770 | 3510 |  |  | 1279 | 1546 |  | 1267 | 1573 |
| Peak-hour factor, PHF | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Adj. Flow (vph) | 144 | 836 | 17 | 10 | 1270 | 74 | 69 | 4 | 1 | 57 | 2 | 38 |
| RTOR Reduction (vph) | 0 | 1 | 0 | 0 | 5 | 0 | 0 | 0 | 1 | 0 | 0 | 30 |
| Lane Group Flow (vph) | 144 | 852 | 0 | 10 | 1339 | 0 | 0 | 73 | 0 | 0 | 59 | 8 |
| Confl. Peds. (\#/hr) |  |  | 4 | 4 |  |  | 2 |  |  |  |  | 2 |
| Confl. Bikes (\#/hr) |  |  |  |  |  |  |  |  | 1 |  |  |  |
| Heavy Vehicles (\%) | 2\% | 2\% | 2\% | 2\% | 2\% | 2\% | 3\% | 3\% | 3\% | 2\% | 2\% | 2\% |
| Turn Type | Prot | NA |  | Prot | NA |  | Perm | NA | Perm | Perm | NA | $\mathrm{pm}+\mathrm{ov}$ |
| Protected Phases | 5 | 2 |  | 1 | 6 |  |  | 4 |  |  | 8 | 5 |
| Permitted Phases |  |  |  |  |  |  | 4 |  | 4 | 8 |  | 8 |
| Actuated Green, G (s) | 6.8 | 39.1 |  | 1.4 | 33.7 |  |  | 6.0 | 6.0 |  | 6.0 | 12.8 |
| Effective Green, g (s) | 6.8 | 39.1 |  | 1.4 | 33.7 |  |  | 6.0 | 6.0 |  | 6.0 | 12.8 |
| Actuated g/C Ratio | 0.11 | 0.65 |  | 0.02 | 0.56 |  |  | 0.10 | 0.10 |  | 0.10 | 0.21 |
| Clearance Time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  |  | 4.5 | 4.5 |  | 4.5 | 4.5 |
| Vehicle Extension (s) | 3.0 | 3.0 |  | 3.0 | 3.0 |  |  | 3.0 | 3.0 |  | 3.0 | 3.0 |
| Lane Grp Cap (vph) | 389 | 2298 |  | 41 | 1971 |  |  | 127 | 154 |  | 126 | 453 |
| v/s Ratio Prot | 0.04 | c0.24 |  | 0.01 | c0.38 |  |  |  |  |  |  | 0.00 |
| $\mathrm{v} / \mathrm{s}$ Ratio Perm |  |  |  |  |  |  |  | c0.06 | 0.00 |  | 0.05 | 0.00 |
| v/c Ratio | 0.37 | 0.37 |  | 0.24 | 0.68 |  |  | 0.57 | 0.00 |  | 0.47 | 0.02 |
| Uniform Delay, d1 | 24.6 | 4.8 |  | 28.8 | 9.3 |  |  | 25.8 | 24.3 |  | 25.5 | 18.6 |
| Progression Factor | 0.76 | 0.89 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Incremental Delay, d2 | 0.6 | 0.4 |  | 3.1 | 0.9 |  |  | 6.2 | 0.0 |  | 2.7 | 0.0 |
| Delay (s) | 19.2 | 4.7 |  | 31.9 | 10.3 |  |  | 31.9 | 24.3 |  | 28.2 | 18.7 |
| Level of Service | B | A |  | C | B |  |  | C | C |  | C | B |
| Approach Delay (s) |  | 6.8 |  |  | 10.4 |  |  | 31.8 |  |  | 24.5 |  |
| Approach LOS |  | A |  |  | B |  |  | C |  |  | C |  |


| Intersection Summary |  |  |  |
| :--- | ---: | :--- | ---: |
| HCM 2000 Control Delay | 10.2 | HCM 2000 Level of Service | B |
| HCM 2000 Volume to Capacity ratio | 0.64 |  | 13.5 |
| Actuated Cycle Length (s) | 60.0 | Sum of lost time (s) | B |
| Intersection Capacity Utilization | $59.0 \%$ | ICU Level of Service |  |
| Analysis Period (min) | 15 |  |  |
| C Critical Lane Group |  |  |  |


| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | \% | t |  | \% | 性 |  |  | * | F |  | $\uparrow$ | F |
| Traffic Volume (vph) | 125 | 625 | 22 | 37 | 778 | 27 | 15 | 4 | 35 | 23 | 6 | 329 |
| Future Volume (vph) | 125 | 625 | 22 | 37 | 778 | 27 | 15 | 4 | 35 | 23 | 6 | 329 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  |  | 4.5 | 4.5 |  | 4.5 | 4.5 |
| Lane Util. Factor | 1.00 | 1.00 |  | 1.00 | 0.95 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Frpb, ped/bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 0.98 |  | 1.00 | 1.00 |
| Flpb, ped/bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Frt | 1.00 | 0.99 |  | 1.00 | 0.99 |  |  | 1.00 | 0.85 |  | 1.00 | 0.85 |
| Flt Protected | 0.95 | 1.00 |  | 0.95 | 1.00 |  |  | 0.96 | 1.00 |  | 0.96 | 1.00 |
| Satd. Flow (prot) | 1770 | 1852 |  | 1769 | 3521 |  |  | 1821 | 1580 |  | 1825 | 1609 |
| Flt Permitted | 0.32 | 1.00 |  | 0.21 | 1.00 |  |  | 0.79 | 1.00 |  | 0.78 | 1.00 |
| Satd. Flow (perm) | 593 | 1852 |  | 396 | 3521 |  |  | 1491 | 1580 |  | 1475 | 1609 |
| Peak-hour factor, PHF | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Adj. Flow (vph) | 139 | 694 | 24 | 41 | 864 | 30 | 17 | 4 | 39 | 26 | 7 | 366 |
| RTOR Reduction (vph) | 0 | , | 0 | 0 | 3 | 0 | 0 | 0 | 36 | 0 | 0 | 72 |
| Lane Group Flow (vph) | 139 | 717 | 0 | 41 | 891 | 0 | 0 | 21 | 3 | 0 | 33 | 294 |
| Confl. Peds. (\#/hr) |  |  | 3 | 3 |  |  | 3 |  | 1 | 1 |  | 3 |
| Confl. Bikes (\#/hr) |  |  | 1 |  |  |  |  |  |  |  |  |  |
| Heavy Vehicles (\%) | 2\% | 2\% | 2\% | 2\% | 2\% | 2\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% |
| Turn Type | pm+pt | NA |  | pm+pt | NA |  | Perm | NA | Perm | Perm | NA | $\mathrm{pm}+\mathrm{ov}$ |
| Protected Phases | 5 | 2 |  | 1 | 6 |  |  | 4 |  |  | 8 | 5 |
| Permitted Phases | 2 |  |  | 6 |  |  | 4 |  | 4 | 8 |  | 8 |
| Actuated Green, G (s) | 44.1 | 44.1 |  | 33.1 | 33.1 |  |  | 4.6 | 4.6 |  | 4.6 | 18.4 |
| Effective Green, g (s) | 44.1 | 44.1 |  | 33.1 | 33.1 |  |  | 4.6 | 4.6 |  | 4.6 | 18.4 |
| Actuated g/C Ratio | 0.68 | 0.68 |  | 0.51 | 0.51 |  |  | 0.07 | 0.07 |  | 0.07 | 0.28 |
| Clearance Time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  |  | 4.5 | 4.5 |  | 4.5 | 4.5 |
| Vehicle Extension (s) | 3.0 | 3.0 |  | 3.0 | 3.0 |  |  | 3.0 | 3.0 |  | 3.0 | 3.0 |
| Lane Grp Cap (vph) | 652 | 1256 |  | 260 | 1793 |  |  | 105 | 111 |  | 104 | 566 |
| v/s Ratio Prot | 0.05 | c0.39 |  | 0.01 | c0.25 |  |  |  |  |  |  | c0.11 |
| v/s Ratio Perm | 0.10 |  |  | 0.07 |  |  |  | 0.01 | 0.00 |  | 0.02 | 0.07 |
| v/c Ratio | 0.21 | 0.57 |  | 0.16 | 0.50 |  |  | 0.20 | 0.02 |  | 0.32 | 0.52 |
| Uniform Delay, d1 | 4.4 | 5.5 |  | 9.6 | 10.5 |  |  | 28.5 | 28.1 |  | 28.7 | 19.6 |
| Progression Factor | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Incremental Delay, d2 | 0.2 | 1.9 |  | 0.3 | 0.2 |  |  | 0.9 | 0.1 |  | 1.8 | 0.8 |
| Delay (s) | 4.6 | 7.4 |  | 9.9 | 10.7 |  |  | 29.4 | 28.2 |  | 30.5 | 20.4 |
| Level of Service | A | A |  | A | B |  |  | C | C |  | C | C |
| Approach Delay (s) |  | 6.9 |  |  | 10.7 |  |  | 28.6 |  |  | 21.2 |  |
| Approach LOS |  | A |  |  | B |  |  | C |  |  | C |  |


| Intersection Summary |  |  |  |
| :--- | ---: | :--- | ---: |
| HCM 2000 Control Delay | 11.6 | HCM 2000 Level of Service | B |
| HCM 2000 Volume to Capacity ratio | 0.61 |  | 13.5 |
| Actuated Cycle Length (s) | 65.0 | Sum of lost time (s) | B |
| Intersection Capacity Utilization | $58.8 \%$ | ICU Level of Service |  |
| Analysis Period (min) | 15 |  |  |
| c Critical Lane Group |  |  |  |

HCM 2010 TWSC
5: SW Nyberg Lane \& Site Access

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 2.6 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | 1 | 4 | 1 |  | 1 |  |
| Traffic Vol, veh/h | 26 | 130 | 256 | 1 | 6 | 102 |
| Future Vol, veh/h | 26 | 130 | 256 | 1 | 6 | 102 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 110 | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 29 | 144 | 284 | 1 | 7 | 113 |



[^14] DS

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |

[^15]| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | \% | $\hat{\beta}$ |  | 7 | $\hat{F}$ |  | \% | F |  | \% | $\uparrow$ | F |
| Traffic Volume (vph) | 376 |  | 68 | 5 | 12 | 27 | 115 | 334 | 10 | 16 | 129 | 399 |
| Future Volume (vph) | 376 | 3 | 68 | 5 | 12 | 27 | 115 | 334 | 10 | 16 | 129 | 399 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  | 4.5 | 4.5 |  | 4.5 | 4.5 | 4.5 |
| Lane Util. Factor | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 | 1.00 |
| Frpb, ped/bikes | 1.00 | 0.98 |  | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 | 0.98 |
| Flpb, ped/bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 | 1.00 |
| Frt | 1.00 | 0.86 |  | 1.00 | 0.90 |  | 1.00 | 1.00 |  | 1.00 | 1.00 | 0.85 |
| Flt Protected | 0.95 | 1.00 |  | 0.95 | 1.00 |  | 0.95 | 1.00 |  | 0.95 | 1.00 | 1.00 |
| Satd. Flow (prot) | 1719 | 1511 |  | 1797 | 1700 |  | 1768 | 1854 |  | 1751 | 1845 | 1534 |
| Flt Permitted | 0.73 | 1.00 |  | 0.71 | 1.00 |  | 0.67 | 1.00 |  | 0.42 | 1.00 | 1.00 |
| Satd. Flow (perm) | 1323 | 1511 |  | 1342 | 1700 |  | 1250 | 1854 |  | 783 | 1845 | 1534 |
| Peak-hour factor, PHF | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Adj. Flow (vph) | 388 | 3 | 70 | 5 | 12 | 28 | 119 | 344 | 10 | 16 | 133 | 411 |
| RTOR Reduction (vph) | 0 | 46 | 0 | 0 | 18 | 0 | 0 | 2 | 0 | 0 | 0 | 285 |
| Lane Group Flow (vph) | 388 | 27 | 0 | 5 | 22 | 0 | 119 | 352 | 0 | 16 | 133 | 126 |
| Confl. Peds. (\#/hr) |  |  | 3 | 3 |  |  | 1 |  | 3 | 3 |  | 1 |
| Confl. Bikes (\#/hr) |  |  | 1 |  |  |  |  |  |  |  |  |  |
| Heavy Vehicles (\%) | 5\% | 5\% | 5\% | 0\% | 0\% | 0\% | 2\% | 2\% | 2\% | 3\% | 3\% | 3\% |
| Turn Type | Perm | NA |  | Perm | NA |  | pm+pt | NA |  | pm+pt | NA | Perm |
| Protected Phases |  | 4 |  |  | 8 |  | 5 | 2 |  | 1 | 6 |  |
| Permitted Phases | 4 |  |  | 8 |  |  | 2 |  |  | 6 |  | 6 |
| Actuated Green, G (s) | 20.9 | 20.9 |  | 20.9 | 20.9 |  | 30.1 | 24.6 |  | 19.4 | 18.4 | 18.4 |
| Effective Green, g (s) | 20.9 | 20.9 |  | 20.9 | 20.9 |  | 30.1 | 24.6 |  | 19.4 | 18.4 | 18.4 |
| Actuated g/C Ratio | 0.35 | 0.35 |  | 0.35 | 0.35 |  | 0.50 | 0.41 |  | 0.32 | 0.31 | 0.31 |
| Clearance Time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  | 4.5 | 4.5 |  | 4.5 | 4.5 | 4.5 |
| Vehicle Extension (s) | 3.0 | 3.0 |  | 3.0 | 3.0 |  | 3.0 | 3.0 |  | 3.0 | 3.0 | 3.0 |
| Lane Grp Cap (vph) | 460 | 526 |  | 467 | 592 |  | 689 | 760 |  | 269 | 565 | 470 |
| v/s Ratio Prot |  | 0.02 |  |  | 0.01 |  | c0.02 | c0.19 |  | 0.00 | 0.07 |  |
| v/s Ratio Perm | c0.29 |  |  | 0.00 |  |  | 0.07 |  |  | 0.02 |  | 0.08 |
| v/c Ratio | 0.84 | 0.05 |  | 0.01 | 0.04 |  | 0.17 | 0.46 |  | 0.06 | 0.24 | 0.27 |
| Uniform Delay, d1 | 18.0 | 13.0 |  | 12.8 | 12.9 |  | 8.2 | 12.9 |  | 17.0 | 15.5 | 15.7 |
| Progression Factor | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 | 1.00 |
| Incremental Delay, d2 | 13.2 | 0.0 |  | 0.0 | 0.0 |  | 0.1 | 2.0 |  | 0.1 | 1.0 | 1.4 |
| Delay (s) | 31.3 | 13.0 |  | 12.8 | 12.9 |  | 8.4 | 14.9 |  | 17.1 | 16.5 | 17.1 |
| Level of Service | C | B |  | B | B |  | A | B |  | B | B | B |
| Approach Delay (s) |  | 28.4 |  |  | 12.9 |  |  | 13.3 |  |  | 17.0 |  |
| Approach LOS |  | C |  |  | B |  |  | B |  |  | B |  |


| Intersection Summary |  |  |  |
| :--- | ---: | :--- | ---: |
| HCM 2000 Control Delay | 19.1 | HCM 2000 Level of Service | B |
| HCM 2000 Volume to Capacity ratio | 0.64 |  | 13.5 |
| Actuated Cycle Length (s) | 60.0 | Sum of lost time (s) | B |
| Intersection Capacity Utilization | $61.1 \%$ | ICU Level of Service |  |
| Analysis Period (min) | 15 |  |  |
| c Critical Lane Group |  |  |  |


|  | $\stackrel{ }{*}$ |  |  | $\checkmark$ |  |  |  | $\dagger$ |  |  | $\downarrow$ | $\downarrow$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  | 帆 | 「 | \％ | ¢4 |  |  |  |  | \％ | $\uparrow$ | 「 ${ }^{\text {F }}$ |
| Traffic Volume（vph） | 0 | 1445 | 754 | 99 | 1140 | 0 | 0 | 0 | 0 | 984 | 10 | 1298 |
| Future Volume（vph） | 0 | 1445 | 754 | 99 | 1140 | 0 | 0 | 0 | 0 | 984 | 10 | 1298 |
| Ideal Flow（vphpl） | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time（s） |  | 4.5 | 4.5 | 4.5 | 4.5 |  |  |  |  | 4.5 | 4.5 | 4.5 |
| Lane Util．Factor |  | 0.91 | 1.00 | 1.00 | 0.95 |  |  |  |  | 0.95 | 0.95 | 0.88 |
| Frpb，ped／bikes |  | 1.00 | 1.00 | 1.00 | 1.00 |  |  |  |  | 1.00 | 1.00 | 1.00 |
| Flpb，ped／bikes |  | 1.00 | 1.00 | 1.00 | 1.00 |  |  |  |  | 1.00 | 1.00 | 1.00 |
| Fit |  | 1.00 | 0.85 | 1.00 | 1.00 |  |  |  |  | 1.00 | 1.00 | 0.85 |
| FIt Protected |  | 1.00 | 1.00 | 0.95 | 1.00 |  |  |  |  | 0.95 | 0.95 | 1.00 |
| Satd．Flow（prot） |  | 5085 | 1583 | 1736 | 3471 |  |  |  |  | 1681 | 1687 | 2787 |
| Flt Permitted |  | 1.00 | 1.00 | 0.95 | 1.00 |  |  |  |  | 0.95 | 0.95 | 1.00 |
| Satd．Flow（perm） |  | 5085 | 1583 | 1736 | 3471 |  |  |  |  | 1681 | 1687 | 2787 |
| Peak－hour factor，PHF | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Adj．Flow（vph） | 0 | 1521 | 794 | 104 | 1200 | 0 | 0 | 0 | 0 | 1036 | 11 | 1366 |
| RTOR Reduction（vph） | 0 | 0 | 533 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| Lane Group Flow（vph） | 0 | 1521 | 261 | 104 | 1200 | 0 | 0 | 0 | 0 | 528 | 519 | 1338 |
| Confl．Peds．（\＃／hr） | 7 |  |  |  |  | 7 |  |  |  |  |  |  |
| Heavy Vehicles（\％） | 2\％ | 2\％ | 2\％ | 4\％ | 4\％ | 4\％ | 0\％ | 0\％ | 0\％ | 2\％ | 2\％ | 2\％ |
| Turn Type |  | NA | Perm | Prot | NA |  |  |  |  | Perm | NA | Perm |
| Protected Phases |  | ， |  | 1 | 6 |  |  |  |  |  | ， |  |
| Permitted Phases |  |  | 2 |  |  |  |  |  |  |  |  | 4 |
| Actuated Green，G（s） |  | 39.5 | 39.5 | 8.5 | 52.5 |  |  |  |  | 58.5 | 58.5 | 58.5 |
| Effective Green， g （s） |  | 39.5 | 39.5 | 8.5 | 52.5 |  |  |  |  | 58.5 | 58.5 | 58.5 |
| Actuated g／C Ratio |  | 0.33 | 0.33 | 0.07 | 0.44 |  |  |  |  | 0.49 | 0.49 | 0.49 |
| Clearance Time（s） |  | 4.5 | 4.5 | 4.5 | 4.5 |  |  |  |  | 4.5 | 4.5 | 4.5 |
| Vehicle Extension（s） |  | 3.0 | 3.0 | 3.0 | 3.0 |  |  |  |  | 3.0 | 3.0 | 3.0 |
| Lane Grp Cap（vph） |  | 1673 | 521 | 122 | 1518 |  |  |  |  | 819 | 822 | 1358 |
| v／s Ratio Prot |  | c0．30 |  | 0.06 | c0．35 |  |  |  |  |  |  |  |
| v／s Ratio Perm |  |  | 0.17 |  |  |  |  |  |  | 0.31 | 0.31 | c0．48 |
| $\mathrm{v} / \mathrm{c}$ Ratio |  | 0.91 | 0.50 | 0.85 | 0.79 |  |  |  |  | 0.64 | 0.63 | 0.99 |
| Uniform Delay，d1 |  | 38.5 | 32.3 | 55.1 | 29.0 |  |  |  |  | 23.0 | 22.8 | 30.3 |
| Progression Factor |  | 1.00 | 1.00 | 1.00 | 1.00 |  |  |  |  | 1.00 | 1.00 | 1.00 |
| Incremental Delay，d2 |  | 7.6 | 0.8 | 40.3 | 4.3 |  |  |  |  | 1.8 | 1.6 | 20.7 |
| Delay（s） |  | 46.2 | 33.1 | 95.4 | 33.3 |  |  |  |  | 24.7 | 24.4 | 51.1 |
| Level of Service |  | D | C | F | C |  |  |  |  | C | C | D |
| Approach Delay（s） |  | 41.7 |  |  | 38.3 |  |  | 0.0 |  |  | 39.6 |  |
| Approach LOS |  | D |  |  | D |  |  | A |  |  | D |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| HCM 2000 Control Delay |  |  | 40.1 |  | HCM 2000 | Level of | ervice |  | D |  |  |  |
| HCM 2000 Volume to Capacity ratio |  |  | 0.96 |  |  |  |  |  |  |  |  |  |
| Actuated Cycle Length（s） |  |  | 120.0 |  | Sum of lost | time（s） |  |  | 13.5 |  |  |  |
| Intersection Capacity Utilization |  |  | 90．9\％ |  | CU Level | fervice |  |  | E |  |  |  |
| Analysis Period（min） |  |  | 15 |  |  |  |  |  |  |  |  |  |
| c Critical Lane Group |  |  |  |  |  |  |  |  |  |  |  |  |

c Critical Lane Group

c Critical Lane Group

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | \% ${ }^{*}$ | 个t |  | ${ }^{7}$ | 性 |  |  | $\uparrow$ | F |  | $\uparrow$ | F |
| Traffic Volume (vph) | 237 | 1351 | 54 | 11 | 928 | 64 | 74 | 12 | 9 | 113 | 5 | 150 |
| Future Volume (vph) | 237 | 1351 | 54 | 11 | 928 | 64 | 74 | 12 | 9 | 113 | 5 | 150 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  |  | 4.5 | 4.5 |  | 4.5 | 4.5 |
| Lane Util. Factor | 0.97 | 0.95 |  | 1.00 | 0.95 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Frpb, ped/bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 0.99 |
| Flpb, ped/bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Frt | 1.00 | 0.99 |  | 1.00 | 0.99 |  |  | 1.00 | 0.85 |  | 1.00 | 0.85 |
| Flt Protected | 0.95 | 1.00 |  | 0.95 | 1.00 |  |  | 0.96 | 1.00 |  | 0.95 | 1.00 |
| Satd. Flow (prot) | 3467 | 3551 |  | 1770 | 3500 |  |  | 1818 | 1615 |  | 1795 | 1586 |
| Flt Permitted | 0.95 | 1.00 |  | 0.95 | 1.00 |  |  | 0.67 | 1.00 |  | 0.67 | 1.00 |
| Satd. Flow (perm) | 3467 | 3551 |  | 1770 | 3500 |  |  | 1272 | 1615 |  | 1257 | 1586 |
| Peak-hour factor, PHF | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Adj. Flow (vph) | 252 | 1437 | 57 | 12 | 987 | 68 | 79 | 13 | 10 | 120 | 5 | 160 |
| RTOR Reduction (vph) | 0 | 3 | 0 | 0 | 7 | 0 | 0 | 0 | 8 | 0 | 0 | 71 |
| Lane Group Flow (vph) | 252 | 1491 | 0 | 12 | 1048 | 0 | 0 | 92 | 2 | 0 | 125 | 89 |
| Confl. Peds. (\#/hr) | 9 |  | 2 | 2 |  | 9 | 3 |  |  |  |  | 3 |
| Confl. Bikes (\#/hr) |  |  | 1 |  |  | 2 |  |  |  |  |  |  |
| Heavy Vehicles (\%) | 1\% | 1\% | 1\% | 2\% | 2\% | 2\% | 0\% | 0\% | 0\% | 1\% | 1\% | 1\% |
| Turn Type | Prot | NA |  | Prot | NA |  | Perm | NA | Perm | Perm | NA | $\mathrm{pm}+\mathrm{ov}$ |
| Protected Phases | 5 | 2 |  | 1 | 6 |  |  | 4 |  |  | 8 | 5 |
| Permitted Phases |  |  |  |  |  |  | 4 |  | 4 | 8 |  | 8 |
| Actuated Green, G (s) | 9.1 | 40.1 |  | 1.0 | 32.0 |  |  | 10.4 | 10.4 |  | 10.4 | 19.5 |
| Effective Green, g (s) | 9.1 | 40.1 |  | 1.0 | 32.0 |  |  | 10.4 | 10.4 |  | 10.4 | 19.5 |
| Actuated g/C Ratio | 0.14 | 0.62 |  | 0.02 | 0.49 |  |  | 0.16 | 0.16 |  | 0.16 | 0.30 |
| Clearance Time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  |  | 4.5 | 4.5 |  | 4.5 | 4.5 |
| Vehicle Extension (s) | 3.0 | 3.0 |  | 3.0 | 3.0 |  |  | 3.0 | 3.0 |  | 3.0 | 3.0 |
| Lane Grp Cap (vph) | 485 | 2190 |  | 27 | 1723 |  |  | 203 | 258 |  | 201 | 585 |
| v/s Ratio Prot | 0.07 | c0.42 |  | 0.01 | c0.30 |  |  |  |  |  |  | 0.02 |
| v/s Ratio Perm |  |  |  |  |  |  |  | 0.07 | 0.00 |  | c0.10 | 0.03 |
| v/c Ratio | 0.52 | 0.68 |  | 0.44 | 0.61 |  |  | 0.45 | 0.01 |  | 0.62 | 0.15 |
| Uniform Delay, d1 | 25.9 | 8.2 |  | 31.7 | 12.0 |  |  | 24.7 | 23.0 |  | 25.5 | 16.7 |
| Progression Factor | 1.21 | 0.83 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Incremental Delay, d2 | 0.7 | 1.2 |  | 11.2 | 0.6 |  |  | 1.6 | 0.0 |  | 5.9 | 0.1 |
| Delay (s) | 32.0 | 8.0 |  | 43.0 | 12.6 |  |  | 26.3 | 23.0 |  | 31.3 | 16.8 |
| Level of Service | C | A |  | D | B |  |  | C | C |  | C | B |
| Approach Delay (s) |  | 11.5 |  |  | 12.9 |  |  | 26.0 |  |  | 23.2 |  |
| Approach LOS |  | B |  |  | B |  |  | C |  |  | C |  |


| Intersection Summary |  |  | B |
| :--- | ---: | :--- | ---: |
| HCM 2000 Control Delay | 13.5 | HCM 2000 Level of Service |  |
| HCM 2000 Volume to Capacity ratio | 0.70 |  | 13.5 |
| Actuated Cycle Length (s) | 65.0 | Sum of lost time (s) | C |
| Intersection Capacity Utilization | $67.8 \%$ | ICU Level of Service |  |
| Analysis Period (min) | 15 |  |  |
| c Critical Lane Group |  |  |  |


|  | 4 |  |  | 7 |  |  | 4 | 4 | $p$ |  | $\downarrow$ | $\checkmark$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | \% | $\hat{\beta}$ |  | \% | 个t |  |  | $\uparrow$ | 「 |  | $\uparrow$ | 7 |
| Traffic Volume (vph) | 407 | 988 | 30 | 33 | 765 | 29 | 16 | 11 | 57 | 22 | 4 | 190 |
| Future Volume (vph) | 407 | 988 | 30 | 33 | 765 | 29 | 16 | 11 | 57 | 22 | 4 | 190 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  |  | 4.5 | 4.5 |  | 4.5 | 4.5 |
| Lane Util. Factor | 1.00 | 1.00 |  | 1.00 | 0.95 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Frpb, ped/bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 0.97 |  | 1.00 | 0.99 |
| Flpb, ped/bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Frt | 1.00 | 1.00 |  | 1.00 | 0.99 |  |  | 1.00 | 0.85 |  | 1.00 | 0.85 |
| Flt Protected | 0.95 | 1.00 |  | 0.95 | 1.00 |  |  | 0.97 | 1.00 |  | 0.96 | 1.00 |
| Satd. Flow (prot) | 1787 | 1871 |  | 1769 | 3517 |  |  | 1839 | 1574 |  | 1822 | 1606 |
| Flt Permitted | 0.28 | 1.00 |  | 0.20 | 1.00 |  |  | 0.80 | 1.00 |  | 0.74 | 1.00 |
| Satd. Flow (perm) | 529 | 1871 |  | 375 | 3517 |  |  | 1519 | 1574 |  | 1403 | 1606 |
| Peak-hour factor, PHF | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Adj. Flow (vph) | 420 | 1019 | 31 | 34 | 789 | 30 | 16 | 11 | 59 | 23 | 4 | 196 |
| RTOR Reduction (vph) | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 55 | 0 | 0 | 41 |
| Lane Group Flow (vph) | 420 | 1049 | 0 | 34 | 817 | 0 | 0 | 27 | 4 | 0 | 27 | 155 |
| Confl. Peds. (\#/hr) | 2 |  | 9 | 9 |  | 2 | 4 |  |  |  |  | 4 |
| Confl. Bikes (\#/hr) |  |  |  |  |  |  |  |  | 1 |  |  | 1 |
| Heavy Vehicles (\%) | 1\% | 1\% | 1\% | 2\% | 2\% | 2\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% |
| Turn Type | pm+pt | NA |  | pm+pt | NA |  | Perm | NA | Perm | Perm | NA | pm+ov |
| Protected Phases | 5 | 2 |  | 1 | 6 |  |  | 4 |  |  | 8 | 5 |
| Permitted Phases | 2 |  |  | 6 |  |  | 4 |  | 4 | 8 |  | 8 |
| Actuated Green, G (s) | 75.0 | 66.9 |  | 59.3 | 55.7 |  |  | 6.0 | 6.0 |  | 6.0 | 20.8 |
| Effective Green, g (s) | 75.0 | 66.9 |  | 59.3 | 55.7 |  |  | 6.0 | 6.0 |  | 6.0 | 20.8 |
| Actuated g/C Ratio | 0.83 | 0.74 |  | 0.66 | 0.62 |  |  | 0.07 | 0.07 |  | 0.07 | 0.23 |
| Clearance Time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  |  | 4.5 | 4.5 |  | 4.5 | 4.5 |
| Vehicle Extension (s) | 3.0 | 3.0 |  | 3.0 | 3.0 |  |  | 3.0 | 3.0 |  | 3.0 | 3.0 |
| Lane Grp Cap (vph) | 647 | 1390 |  | 302 | 2176 |  |  | 101 | 104 |  | 93 | 451 |
| v/s Ratio Prot | c0.11 | c0.56 |  | 0.00 | 0.23 |  |  |  |  |  |  | c0.06 |
| $\mathrm{v} / \mathrm{s}$ Ratio Perm | 0.43 |  |  | 0.07 |  |  |  | 0.02 | 0.00 |  | 0.02 | 0.04 |
| v/c Ratio | 0.65 | 0.75 |  | 0.11 | 0.38 |  |  | 0.27 | 0.04 |  | 0.29 | 0.34 |
| Uniform Delay, d1 | 3.5 | 6.8 |  | 13.3 | 8.5 |  |  | 39.9 | 39.3 |  | 40.0 | 28.9 |
| Progression Factor | 1.00 | 1.00 |  | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Incremental Delay, d2 | 2.3 | 3.9 |  | 0.2 | 0.1 |  |  | 1.4 | 0.1 |  | 1.7 | 0.5 |
| Delay (s) | 5.7 | 10.6 |  | 13.5 | 8.6 |  |  | 41.3 | 39.4 |  | 41.7 | 29.4 |
| Level of Service | A | B |  | B | A |  |  | D | D |  | D | C |
| Approach Delay (s) |  | 9.2 |  |  | 8.8 |  |  | 40.0 |  |  | 30.9 |  |
| Approach LOS |  | A |  |  | A |  |  | D |  |  | C |  |


| Intersection Summary |  |  |  |
| :--- | ---: | :--- | ---: |
| HCM 2000 Control Delay | 11.9 | HCM 2000 Level of Service | B |
| HCM 2000 Volume to Capacity ratio | 0.74 |  | 13.5 |
| Actuated Cycle Length (s) | 90.0 | Sum of lost time (s) | D |
| Intersection Capacity Utilization | $78.2 \%$ | ICU Level of Service |  |
| Analysis Period (min) | 15 |  |  |
| c Critical Lane Group |  |  |  |


| Intersection |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh 2 |  |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | ${ }^{*}$ | $\uparrow$ | $\uparrow$ |  | M |  |
| Traffic Vol, veh/h | 102 | 345 | 161 | 5 | 3 | 55 |
| Future Vol, veh/h | 102 | 345 | 161 | 5 | 3 | 55 |
| Conflicting Peds, \#hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 110 | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 97 | 97 | 97 | 97 | 97 | 97 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mumt Flow | 105 | 356 | 166 | 5 | 3 | 57 |



[^16]

[^17]Synchro 9 Report
Page 10

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | ${ }^{7}$ | F |  | \% | F |  | ${ }^{7}$ | F |  | \% | $\uparrow$ | F |
| Traffic Volume (vph) | 491 | 10 | 120 | , | 9 | 22 | 40 | 145 | 6 | 25 | 371 | 389 |
| Future Volume (vph) | 491 | 10 | 120 | 8 | 9 | 22 | 40 | 145 | 6 | 25 | 371 | 389 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 4.5 | 4.5 |  | 4.5 | 4.5 |  | 4.5 | 4.5 |  | 4.5 | 4.5 | 4.5 |
| Lane Util. Factor | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 | 1.00 |
| Frpb, ped/bikes | 1.00 | 0.98 |  | 1.00 | 0.98 |  | 1.00 | 1.00 |  | 1.00 | 1.00 | 0.96 |
| Flpb, ped/bikes | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 | 1.00 |
| Frt | 1.00 | 0.86 |  | 1.00 | 0.89 |  | 1.00 | 0.99 |  | 1.00 | 1.00 | 0.85 |
| Flt Protected | 0.95 | 1.00 |  | 0.95 | 1.00 |  | 0.95 | 1.00 |  | 0.95 | 1.00 | 1.00 |
| Satd. Flow (prot) | 1787 | 1580 |  | 1800 | 1669 |  | 1783 | 1869 |  | 1766 | 1863 | 1523 |
| Flt Permitted | 0.74 | 1.00 |  | 0.67 | 1.00 |  | 0.35 | 1.00 |  | 0.66 | 1.00 | 1.00 |
| Satd. Flow (perm) | 1385 | 1580 |  | 1270 | 1669 |  | 653 | 1869 |  | 1222 | 1863 | 1523 |
| Peak-hour factor, PHF | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 |
| Adj. Flow (vph) | 511 | 10 | 125 | 8 | 9 | 23 | 42 | 151 | 6 | 26 | 386 | 405 |
| RTOR Reduction (vph) | 0 | 75 | 0 | 0 | 14 | 0 | 0 | 2 | 0 | 0 | 0 | 140 |
| Lane Group Flow (vph) | 511 | 60 | 0 | 8 | 18 | 0 | 42 | 155 | 0 | 26 | 386 | 265 |
| Confl. Peds. (\#/hr) |  |  | 2 | 2 |  |  | 9 |  | 2 | 2 |  | 9 |
| Confl. Bikes (\#/hr) |  |  | 3 |  |  | 2 |  |  |  |  |  | 2 |


|  | $1 \%$ | $1 \%$ | $1 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $1 \%$ | $1 \%$ | $1 \%$ | $2 \%$ | $2 \%$ | $2 \%$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Heavy Vehicles (\%) | Perm | NA | Perm | NA | pm+pt | NA | pm+pt | NA | Perm |  |  |  |


| Permitted Phases | 4 |  | 8 |  | 2 |  | 6 |  | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Actuated Green, G (s) | 26.1 | 26.1 | 26.1 | 26.1 | 26.4 | 23.4 | 24.4 | 22.4 | 22.4 |
| Effective Green, g (s) | 26.1 | 26.1 | 26.1 | 26.1 | 26.4 | 23.4 | 24.4 | 22.4 | 22.4 |
| Actuated g/C Ratio | 0.40 | 0.40 | 0.40 | 0.40 | 0.41 | 0.36 | 0.38 | 0.34 | 0.34 |
| Clearance Time (s) | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| Lane Grp Cap (vph) | 556 | 634 | 509 | 670 | 317 | 672 | 475 | 642 | 524 |
| v/s Ratio Prot |  | 0.04 |  | 0.01 | c0.01 | 0.08 | 0.00 | c0.21 |  |
| v/s Ratio Perm | c0.37 |  | 0.01 |  | 0.05 |  | 0.02 |  | 0.17 |
| v/c Ratio | 0.92 | 0.09 | 0.02 | 0.03 | 0.13 | 0.23 | 0.05 | 0.60 | 0.51 |
| Uniform Delay, d1 | 18.4 | 12.1 | 11.7 | 11.8 | 12.3 | 14.5 | 12.9 | 17.6 | 16.9 |
| Progression Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Incremental Delay, d2 | 20.2 | 0.1 | 0.0 | 0.0 | 0.2 | 0.8 | 0.0 | 4.1 | 3.5 |
| Delay (s) | 38.7 | 12.2 | 11.7 | 11.8 | 12.5 | 15.3 | 12.9 | 21.7 | 20.4 |
| Level of Service | D | B | B | B | B | B | B | C | C |
| Approach Delay (s) |  | 33.1 |  | 11.8 |  | 14.7 |  | 20.8 |  |
| Approach LOS |  | C |  | B |  | B |  | C |  |


| Intersection Summary |  |  |  |
| :--- | ---: | :--- | ---: |
| HCM 2000 Control Delay | 24.6 | HCM 2000 Level of Service | C |
| HCM 2000 Volume to Capacity ratio | 0.73 |  | 13.5 |
| Actuated Cycle Length (s) | 65.0 | Sum of lost time (s) | C |
| Intersection Capacity Utilization | $68.8 \%$ | ICU Level of Service |  |
| Analysis Period (min) | 15 |  |  |
| C Critical Lane Group |  |  |  |



[^18]

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oregon．．department of transportation－transportation development division OREGON．．DEPARTMENT OF TRANSPORTATION
TRANSPORTATION DATA SECTION－CRASH ANAYLYSIS AND REPORTING UNIT
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transportation data section - crash anaylysis and reporting unit
ATA SECTION - CRASH ANAYLYSIS AND REPORTING UNIT
URBAN NON-SYSTEM CRASH LISTING
 Total crash records: 17



Page 90 of 131

 01/01/2004, may result in fewer property damage only crashes being eligible for inclusion in the Statewide Crash Data File.
Page 92 of 131
OREGON.. DEPARTMENT OF tRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION OREGON. . DEPARTMENT OF TRANSORIATIN
TRANSPORTATION DATA SECTION - CRASH ANAYLYSIS AND REPORTING UNIT
 Total crash records: 51 asn TDas


 Total crash records: 51


OREGON. . DEPARTMENT OF TRANSPORTATION - CRASH ANAYLYSIS AND REPORTING UNIT
TRANSPORTATION DATA SECTION - CRAN
 Total crash records: 51
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 Total crash records: 51

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\text { YNNN N } 08 / 31 / 2015 \\
\text { MO }
\end{gathered}
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\] \& 14 \& | SW NYBERG ST |
| :--- |
| SB EX NYBERG ST C4 | \& | INTER |
| :--- |
| NE | \& CROSS \& TRF SIGNAL \& \[

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& \mathrm{N} \\
& \mathrm{~N}
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\] \& \[

$$
\begin{aligned}
& \text { CLR } \\
& \text { DRY }
\end{aligned}
$$

\] \& \[

$$
\begin{aligned}
& \text { S-1STOP } \\
& \text { REAR }
\end{aligned}
$$

\] \& \[

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\begin{gathered}
01 \\
\text { NONETE } \\
\text { PRVTE }
\end{gathered}
$$

\] \& StRGHT NE-SW \& \& \& \& \& \& \& \& $000{ }^{013}$ \& \[

$$
\begin{aligned}
& 01 \\
& 00
\end{aligned}
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\] <br>

\hline
\end{tabular}

oregon.. department of transportation - transportation development division

- Department of transportation - transportation develorma int
dransportation data section - crash anaylysis and reporting unit


CITY OF TUALATIN, WASHINGTON COUNTY


LOCTN（\＃LANES）CONTL DRVWY LIGHT SVRTY V\＃TYPE

| 1 NONE | 0 |
| :--- | :--- |
| PRVTE |  |
| PSNGR | CAR |
| NONE | 0 |
| PRVTE |  |
| PSNGR | CAR |
| NONE | 0 |
| PRVTE |  |
| PSNGR | CAR |


00147 N N N 01／09／2013 $11 \quad$ SW NYBERG ST $\quad \begin{aligned} & \text { INTER } \\ & \text { CN }\end{aligned}$

| 00147 | N N N | 01／09／2013 | 11 | Sw nyberg st | INTER | cross | N | N | CLR | rop |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| none |  | WE |  | Sb ex nyberg st C4 | CN |  | tre SIGNAL | N | Y | REAR |
|  |  | 6 P |  |  | 01 | 1 |  | N | DLIT | INJ |


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Page 102 of 131
 01/01/2004, may result in fewer property damage only crashes being eligible for inclusion in the Statewide Crash Data File.
 01/01/2004, may result in fewer property damage only crashes being eligible for inclusion in the Statewide Crash Data File.

oregon. . department of transportation - transportation development division
transportation data section - Crash anaylysis and reporting unit
OREGON. DEPARTMENT
TRANSPORTATION DATA SECTION - CRASH ANAYLYSIS AND REPORTING UNIT
URBAN NON-SYSTEM CRASH LISTING
 asn TDas



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OREGON.. DEPARTMENT of transportation - transportation development division
transportation data section - CRASh anaylysis and reporting unit
 Total crash records: 23

Oregon.. department of transportation - transportation development division
transportation data section - Crash anaylysis and reporting unit
 Total crash records: 23

oregon.. department of transportation - transportation development division
transportation data section - crash anaylysis and reporting unit
data section - Crash anaylysis and reporting unit
Urban non- System crash listing
 Total Crash Records:-23
SPCL USE
茳


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 URBAN NON-SYSTEM CRASH LISTING
NYBERG ST and Intersectional Crashes at NYBERG ST, City of Tualatin, was
Total crash records: 261


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OREGON. . DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION
TRANSPORTATION DATA SECTION - CRASH ANAYLYSIS AND REPORTING UNIT
URBAN NON-SYSTEM CRASH LISTING
NYBERG ST at NYBERG LN, City of Tualatin, Washington County, 01/01/2011 to $12 / 31 / 2015$
Total crash records: 6 Total crash records: 6
CDS380
09/08/2017
CITY OF TUALATIN, WASHington County
(2) aso toas


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TRANSPORTATION DATA SECTION - CRASH ANAYLYSIS AND REPORTING UNIT
URBAN NON-SYSTEM CRASH LISTING
Tualatin, Washington County, 01/01/2011 to 12/31/2015
Total crash records: 6

03 PSNG NO<5 03
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| ```OREGON DEPARTMENT OF TRANSPORTATION - TRANSPORTATION DEVELOPMENT DIVISION Page TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT CRASH SUMMARIES BY YEAR BY COLLISION TYPE NYBERG LN at 65TH AVE, City of Tualatin, Washington County, 01/01/2011 to 12/31/2015``` |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\underset{\text { CRASHES }}{\text { FATAL }}$ | $\begin{array}{r} \text { NON- } \\ \text { FRATAL } \\ \text { CRASHES } \end{array}$ | PROPERTY DAMAGE ONLY | $\begin{gathered} \text { TOTAL } \\ \text { CRASHES } \end{gathered}$ | PEOPLE KILLED | PEOPLE | TRUCKS | $\begin{gathered} \text { DRY } \\ \text { SURF } \end{gathered}$ | $\begin{aligned} & \text { WET } \\ & \text { SURF } \end{aligned}$ | DAY | DARK | INTER- SECTION | INTER- <br> SECTION <br> RELATED | $\underset{\text { ROAD- }}{\text { OFF }}$ |
| 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |
| 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |
| 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |



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TRANSPORTATION DATA SECTION - CRASH ANAYLYSIS AND REPORTING UNIT
URBAN NON-SYSTEM CRASH LISTING
65 TH AVE at NYBERG ST, City of rualatin, Washington County, 01/01/2011 to $12 / 31 / 2015$
Total crash records: 6 Total crash records: 6


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TRANSPORTATION DATA SECTION - CRASH ANAYLYSIS AND REPORTING UNIT
URBAN NON-SYSTEM CRASH LISTING
65 TH AVE at BORLAND RD, City of Tualatin, Washington County, 01/01/2011 to
y of Tualatin, Washington County, 01/01/2011 to 12/31/2015 Total crash records: 9
${ }^{65 T}$ Total crash records: 9


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TRANSPORTATION DATA SECTION - CRASH ANAYLYSIS AND REPORTING UNIT
URBAN NON-SYSTEM CRASH LISTING
65TH AVE at SAGERT ST, City of Tualatin, Washington County, 01/01/2011 to 1
Tualatin, Washington County, 01/01/2011 to $12 / 31 / 2015$
Total crash records: 14 SPCL USE

 | ITAN $)$ | INT-REL | OFFRD | WTHR | CRASH | TRLR QTY |
| :--- | :--- | :--- | :--- | :--- | :--- |
| LEGS | TRAF- | RNDBT | SURF | COLL | OWNER |
|  | DRVWY | LIGHT | SVRTY | V\# TYPE |  | (NGIagw)

GdXI-UNI CITY OF TUALATIN, WAShington County CITY

| S | D |
| :--- | :--- | :--- | :--- |
| P | R S W |

$\qquad$



EXHIBIT N

TRANSPORTATION DATA SECTION - CRASH ANAYLYSIS AND REPORTING UNIT
URBAN NON-SYSTEM CRASH LISTING
Tualatin, Washington County, 01/01/2011 to 12/31/2015
Total crash records: 14


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[^0]:    ${ }^{1}$ Institute of Transportation Engineers (ITE), TRIP GENERATION MANUAL, 9th Edition, 2012.

[^1]:    ${ }^{2}$ Transportation Research Board, HIGHW AY CAPACITY MANUAL 2000 and HIGHW AY CAPACITY MANUAL 2010.

[^2]:    * Traffic signal installed.

[^3]:    * Restripe NB approach to shared LT/Th and RT lanes.

[^4]:    ${ }^{3}$ American Association of State Highway and Transportation Officials (AASHTO), A Policy on Geometric Design of Highways and Streets, 6th Edition, 2011.

[^5]:    Tualatin Apartments 09／06／2017 Existing Conditions－AM Peak Hour DS

[^6]:    Tualatin Apartments 09/06/2017 Existing Conditions - AM Peak Hour DS

[^7]:    Tualatin Apartments 09/06/2017 Existing Conditions - AM Peak Hour

[^8]:    Tualatin Apartments 09/06/2017 Existing Conditions - AM Peak Hour DS

[^9]:    Tualatin Apartments 09/06/2017 Existing Conditions - PM Peak Hour DS

[^10]:    Tualatin Apartments 09/06/2017 Existing Conditions - PM Peak Hour DS

[^11]:    Tualatin Apartments 09/06/2017 Existing Conditions - PM Peak Hour

[^12]:    Tualatin Apartments 09/06/2017 Existing Conditions - PM Peak Hour DS

[^13]:    Tualatin Apartments 09/06/2017 2019 Background Conditions - PM Peak Hour DS

[^14]:    Tualatin Apartments 09/06/2017 2019 Background plus Site Conditions - AM Peak Hour

[^15]:    Tualatin Apartments 09/06/2017 2019 Background plus Site Conditions - AM Peak Hour DS

[^16]:    Tualatin Apartments 09/06/2017 2019 Background plus Site Conditions - PM Peak Hour DS

[^17]:    Tualatin Apartments 09/06/2017 2019 Background plus Site Conditions - PM Peak Hour DS

[^18]:    Tualatin Apartments 09/06/2017 2019 Mitigated Conditions - AM Peak Hour DS

[^19]:    Tualatin Apartments 09/06/2017 2019 Mitigated Conditions - PM Peak Hour DS

