# Barlow Trail Veterinary Clinic Traffic Impact Study 

SANDY, OREGON



## Prepared For:

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## ExECUTIVE Summary

1. A property located on the south side of Pioneer Boulevard immediately east of Strauss Avenue in Sandy, Oregon is proposed for development with a 5,772 square foot veterinary clinic. The site will take access via two driveways, with one on Strauss Avenue and one on Junker Street.
2. Upon completion of the proposed improvements within the subject property, the site is projected to accommodate 21 site trips during the morning peak hour, 20 trips during the evening peak hour, and 124 daily site trips.
3. The study intersections are currently operating acceptably per City of Sandy and ODOT standards and are projected to continue operating acceptably through 2024 either with or without the addition of site trips from the proposed development. No operational mitigations are necessary or recommended.
4. Strauss Avenue and Junker Street are classified as local streets. Both streets will accommodate fewer than 1,000 vehicle trips per day with completion of the proposed development.
5. The study intersections are currently operating acceptably with respect to safety. No specific safety improvements are recommended in conjunction with the proposed site use.
6. No new turn lanes or traffic signals are recommended in conjunction with the proposed development.
7. Based on the intersection sight distance analysis and in consideration of the traffic patterns and conflicts surrounding the site access driveways, it is recommended that the driveway on Strauss Avenue be limited to entering vehicles only. The site access driveway on Junker Street can safely and efficiently accommodate both entering and exiting traffic.

## Project Description \& Location

## INTRODUCTION

A new 5,772 square foot veterinary clinic is proposed on a property located on the east side of Strauss Avenue immediately south of Pioneer Boulevard in the City of Sandy, Oregon. The proposed development will take access via driveways on Strauss Avenue and Junker Street.

This report addresses the impacts of the proposed development on the surrounding street system. An operational and safety analysis was conducted for the intersections of:

- Pioneer Boulevard at Strauss Avenue;
- Pioneer Boulevard at Junker Street;
- Strauss Avenue at the proposed site access; and
- Junker Street at the proposed site access.

The purpose of this analysis is to determine whether the surrounding transportation system is capable of safely and efficiently supporting the proposed use and to identify any necessary improvements and mitigations.

## Site Location and Study area Description

The project site comprises several tax lots, all of which are currently undeveloped. Immediately east of the project site is the Sandy Community Action Center/Second Time Around Thrift Store. Other uses in the site vicinity include existing homes along Junker Street and a variety of commercial land uses along Pioneer Boulevard in the site vicinity.

Pioneer Boulevard forms the eastbound half of the Highway 26 couplet through downtown Sandy. The section near the project site is classified by the Oregon Department of Transportation as a Statewide Highway, a Freight Route, and a Special Transportation Area. It has two eastbound through lanes, a bike lane to the right of the motor vehicle travel lanes, and on-street parking on both sides of the roadway. It has a posted speed limit of 25 in the site vicinity, with a $20-\mathrm{mph}$ school speed zone that applies from 130 feet east of Strauss Avenue to 100 feet east of Shelley Avenue when children are present. Existing sidewalks are in place on both sides of the roadway.

Strauss Avenue is a one-way road serving southbound traffic. It is classified by the City of Sandy as a local street. Between Proctor Boulevard and Pioneer Boulevard it has a single southbound travel lane with parallel parking on the east side and angled parking on the west side. Existing sidewalks are in place on both sides of the roadway. South of Pioneer Boulevard it has a single southbound travel lane, with on-street parking available wherever sufficient shoulder width is provided. There are currently no sidewalks on either side of the roadway south of Pioneer Boulevard.

Junker Street is also classified by the City of Sandy as a local street. The east/west segment that extends approximately 280 feet east of Strauss Avenue is a one-way roadway with a single eastbound travel lane, and no on-street parking or sidewalks. The north/south segment which connects to Pioneer Boulevard between Strauss Street and Shelley Avenue has a single travel lane in

each direction with limited on-street parking and no sidewalks on either side of the roadway. Since Junker Street serves existing residential homes, it is also subject to the City of Sandy's requirement that local residential streets accommodate fewer than 1,000 daily trips.

## Existing Conditions

The intersection of Pioneer Boulevard at Strauss Avenue is controlled by a traffic signal. The eastbound approach has a dedicated left-turn lane, a shared through/right lane, and a bike lane. The southbound approach has a single lane which serves left-turn and through traffic. There are no westbound or northbound approaches since both roadways serve one-way traffic.

The intersection of Pioneer Boulevard at Junker Street is a T-intersection operating under stop control for the northbound Junker Street approach. The eastbound Pioneer Boulevard approach has a through lane and a through/right lane, with a bike lane to the right of the motor vehicle travel lanes. The northbound approach has a single lane which only accommodates right-turn movements.

A vicinity map displaying the project site, vicinity streets, and the study intersections including lane configurations is provided in Figure 1 on page 6.



## Traffic Count Data

Traffic counts were conducted at the study area intersections on Tuesday November 8, 2022, from 7:00 to 9:00 AM and from 4:00 to 6:00 PM. Data was used from the highest-volume hour for each study intersection during each analysis period.

Since the count data was not collected during the peak month of the year, the observed traffic volumes on Highway 26 were adjusted to account for seasonal traffic variations. In accordance with the Oregon Department of Transportation's Analysis Procedures Manual, this allows us to analyze operations based on traffic patterns that occur during the $30^{\text {th }}$-highest hour of the year.

The seasonal adjustment was calculated using data from ODOT's Automatic Traffic Recorder (ATR) Station 26-003, located on Highway 26 in Gresham, Oregon. This ATR station was determined to have substantially similar characteristics to Highway 26 within the City of Sandy and was also used to seasonally adjust traffic volume data collected for the City of Sandy's Transportation System Plan. The seasonal adjustment calculation used annual data from 2017 through 2021 (the most recent 5 years for which data is available). The seasonal adjustment used compared traffic volumes during the count month of November to the peak month of August for each year. After removing the highest and lowest values from the data set for the respective months, the remaining three data points were averaged to determine the appropriate seasonal adjustment. Accordingly, a seasonal adjustment of 1.135 was applied to the November count data to represent peak traffic conditions in August. This adjustment was applied to the morning and evening peak hour count data.

Figure 2 on page 8 shows the resulting seasonally adjusted existing year $202230^{\text {th }}$-highest hour traffic volumes for the morning and evening peak hours at the study intersections.


## OPERATIONAL ANALYSIS

An operational analysis was conducted for the study intersections using Synchro 11 software, with outputs calculated based on the HIGHWAY CAPACITY MANUAL, $6^{\text {th }}$ Edition. The analysis was conducted for the weekday morning and evening peak hours.

The purpose of the existing conditions analysis is to establish how the study area intersections operate currently and allow for calibration of the operational analysis if required.

The results of the operational analysis are reported based on delay, Level of Service (LOS), and volume-to-capacity ratio (v/c). Delays are reported in seconds. Level of service is reported as a letter grade and can range from $A$ to $F$, with level of service A representing free-flow conditions and level of service F representing high delays and severe congestion. A report of level of service D generally indicates moderately high but tolerable delays, and typically occurs prior to reaching intersection capacity. For unsignalized intersections, the $\mathrm{v} / \mathrm{c}$ represents the portion of the available intersection capacity that is being utilized on the worst intersection approach. For signalized intersections, it indicates the portion of the overall intersection's capacity that is being used. A v/c ratio of 1.0 would indicate that the intersection is operating at capacity.

The Oregon Department of Transportation requires that the signalized intersection of Pioneer Boulevard at Strauss Avenue operate with a v/c ratio of 0.90 or less during the peak hours. The unsignalized intersection of Pioneer Boulevard at Junker Street is required to operate with a v/c ration of 0.90 or less on the state highway approach and 1.0 or less on the stop-controlled Junker Street approach.

Intersections operating under the jurisdiction of the City of Sandy are required to operate at level of service D or better. This operational standard applies to the proposed site access intersections on Strauss Avenue and Junker Street.

A summary of the existing conditions operational analysis is provided in Table 1 on the following page. For the signalized intersection of Pioneer Boulevard at Strauss Avenue, the reported delays, levels-of-service, and $v / \mathrm{c}$ ratios represent the operation of the overall intersection. For the unsignalized intersection of Pioneer Boulevard at Junker Street the reported delays and levels-ofservice represent the stop-controlled Junker Street approach (since Pioneer Boulevard is free-flowing and not subject to delay at the intersection). Volume-to-capacity ratios are reported for both intersection approaches.

Based on the analysis, the intersections are currently operating acceptably per the respective ODOT and City of Sandy standards. Detailed capacity analysis worksheets are included in the attached technical appendix.

Table 1-Operational Analysis Summary: Year 2022 30th-Highest Hour Conditions

| Intersection | AM Peak Hour |  |  | PM Peak Hour |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Delay | LOS | v/c | Delay | LOS | v/c |
| Pioneer Boulevard at Strauss Avenue | 2.6 | A | 0.43 | 4.6 | A | 0.61 |
| Pioneer Boulevard at Junker Street* | 13.1 | B | $0.34 / 0.00$ | 17.7 | C | $0.51 / 0.01$ |

* Reported v/c ratios reflect state highway approach/minor street approach


## Site Trips

The proposed development consists of a new 5,772 square foot veterinary clinic. To estimate the number of trips that will be generated at the site trip rates from the TRIP GENERATION MANUAL, $11^{\text {th }}$ EDITION were used. Data from land-use code 640, Animal Hospital/Veterinary Clinic, were used.

A summary of the trip generation calculations is provided in Table 2 below. A detailed trip generation worksheet is also included in the technical appendix.

Table 2 - Proposed Development Trip Generation Summary

|  | AM Peak Hour |  |  | PM Peak Hour |  |  | Daily |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | In | Out | Total |  |
| 5,772 sf Veterinary Clinic | 14 | 7 | 21 | 8 | 12 | 20 | 124 |

## TRIP DISTRIbUtion

The directional distribution of site trips to and from the project site was estimated based the existing travel patterns in the site vicinity, as well as the locations of likely trip destinations and major transportation routes. Overall, 60 percent of entering site trips are projected to approach via Pioneer Boulevard eastbound, while 40 percent of entering site trips are projected to approach the site via Strauss Avenue southbound. Since Pioneer Boulevard operates as a one-way road all trips exiting the site will travel to the east on Junker Street to Pioneer Boulevard eastbound.

The trip distribution percentages and trip assignment for the proposed development are shown in Figure 3 on page 11.


## Future Conditions Analysis

## BaCkGROUND Volumes

In order to determine the expected impact of site trips on the study area intersections, it is necessary to compare traffic conditions both with and without the addition of the projected traffic from the proposed development. This comparison is made for future traffic conditions at the time of project completion. It is anticipated that the proposed use will be completed and fully occupied within two years. Accordingly, the analysis was conducted for year 2024 traffic conditions.

Prior to adding the projected site trips to the study intersections, the existing traffic volumes were adjusted to account for background traffic growth over time. Based on data from ODOT's 2040 Future Volume Table, the growth rate for traffic volumes on Highway 26 in the site vicinity was calculated to be 2.19 percent per year (linear). This growth rate was applied to the year 2022 traffic volumes over a period of two years to generate the projected year 2024 traffic volumes.

In addition to the background growth, future site trips associated with other anticipated developments within the City of Sandy were added to the background traffic volumes. These projects included the Mt. Hood Senior Living, The Pad, Cedar Heights Views, Shaylee Meadows, Trimble PD, Bornstedt Views, Cascade Creek Multifamily, Tickle Creek Village, Double Creek Condos, Jewelberry Ridge, Jewelberry Meadows, Sandy Plaza Apartments, FreeUp Storage, Johnson RV, and a mixed-use development at 38015 Highway 26. The projected site trips for these residential developments are shown in Figure 6 in the attached technical appendix.

Figure 4 on page 13 shows the projected year 2024 background traffic volumes at the study intersections during the morning and evening peak hours.

## BaCKGRound Volumes plus Site Trips

Peak hour trips calculated to be generated by the proposed development were added to the projected year 2024 background traffic volumes to obtain the year 2024 total traffic volumes following completion of the proposed development.

Figure 5 on page 14 shows the projected year 2024 peak hour volumes including background growth, and site trips from the proposed development for the morning and evening peak hours.



## OPERATIONAL ANALYSIS

The operational analysis for future traffic conditions was again conducted using Synchro analysis software, with outputs based on the analysis methodologies contained in the HIGHWAY CAPACITY $M A N U A L$. The analysis was prepared for the intersections' morning and evening peak hours.

The results of the operational analysis are summarized in Table 4 below. Detailed analysis worksheets are also included in the technical appendix.

Table 4 - Operational Analysis Summary: Year 2024 Future Conditions

| Intersection | AM Peak Hour |  |  | PM Peak Hour |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Delay | LOS | v/c | Delay | LOS | v/c |
| Pioneer Blvd. at Strauss Ave. |  |  |  |  |  |  |
| 2024 Background Conditions | 2.8 | A | 0.47 | 5.6 | A | 0.67 |
| 2024 Background plus Site | 3.7 | A | 0.48 | 5.8 | A | 0.67 |
| Pioneer Blvd. at Junker St.* |  |  |  |  |  |  |
| 2024 Background Conditions | 13.9 | B | $0.37 / 0.00$ | 19.6 | C | $0.56 / 0.01$ |
| 2024 Background plus Site | 14.0 | B | $0.37 / 0.02$ | 20.4 | C | $0.56 / 0.06$ |
| Strauss Ave. at Site Access |  |  |  |  |  |  |
| 2024 Background plus Site <br> Junker St. at Site Access | 8.7 | A | 0.01 | 8.6 | A | 0.01 |
| 2024 Background plus Site |  |  |  |  |  |  |

* Reported v/c ratios reflect state highway approach/minor street approach

Upon completion of the proposed development, all study intersections are projected to operate acceptably per the appropriate jurisdictional standards.

## Local Street Traffic Volumes

Local street traffic volumes were examined to determine whether the proposed development will comply with the requirements of the City of Sandy's Development Code, Section 17.10.30 "Street", Sub-section E "Local Streets", which reads in part:
"Average daily traffic (ADT) shall not exceed 1,000 vehicles/day. Proposed projects that result in more than 1,000 ADT on an existing or proposed local street shall be modified to not exceed the 1,000 ADT threshold on the local street or the proposal may be processed through the procedures in Chapter 17.66 of the Sandy Development Code."

Based on the analysis, under year 2024 background plus site trips conditions the loop formed by Strauss Avenue and Junker Street will carry approximately 140 vehicles per day. This traffic volume falls well below the maximum allowable threshold. As such, no mitigation is required to meet the city's local street traffic volume standards.

## Safety Analysis

## CRASH Data ANALYSIS

Using data obtained from the Oregon Department of Transportation, a review of the five most recent years of available crash history (from January 2016 through December 2020) was performed for the study intersections. The crash data was evaluated based on the number, type, and severity of collisions, as well as the intersection crash rate. Crash rates allow comparison of relative safety risks at intersections with different lane configurations, volumes, and traffic control devices by accounting for both the number of crashes that occur during the study period and the number of vehicles that traveled through the intersection during that period. Crash rates are calculated using the standard assumption that evening peak hour volumes are approximately 10 percent of the average daily traffic volume at an intersection. The crash rates were compared to statewide crash rates for similar intersection types to identify any locations with crash rates in excess of the $90^{\text {th }}$ percentile.

The intersection of Pioneer Boulevard at Strauss Avenue had two total reported collisions during the five-year analysis period. These consisted of one rear-end collision and one turning movement collision. The crashes resulted in two reports of a "possible injury/complaint of pain." No serious injuries or fatalities were reported. The crash rate for the intersection was 0.072 crashes per million entering vehicles, which is well below the $90^{\text {th }}$ percentile crash rate of 0.509 crashes per million entering vehicles for signalized three-way urban intersections in Oregon.

There were no reported crashes at the intersection of Pioneer Boulevard and Junker Street during the five-year analysis period.

Based on the crash data, the study intersections are currently operating acceptably with respect to safety. No specific safety improvements are recommended for the study area intersections.

## Traffic Signal Warrant analysis

The intersection of Pioneer Boulevard at Strauss Avenue is currently signalized. By inspection, all other study intersections have insufficient traffic volumes on the side-street approaches to warrant signalization. Accordingly, no new traffic signals are recommended in conjunction with the proposed development.

## TURN LANE WARRANT ANALYSIS

Turn lane warrants were also examined for the major-street approaches to the unsignalized study intersections. Left-turn lane warrants are intended to evaluate whether a meaningful safety benefit may be expected if the turning vehicles are provided with a turn lane within the street, allowing leftturning drivers to move out of the through travel lane so that following vehicles may pass without conflicts. Similarly, right-turn lane warrants are intended to evaluate whether a meaningful safety benefit may be expected if a right-turn lane is provided, allowing right-turning vehicles to move out of the through travel lane while decelerating and making turns.

Generally, turning movement volumes of fewer than 10 major street left turns are too low to warrant installation of dedicated left-turn lanes. All study intersections are projected to have fewer than 10 major street left turns during each of the peak hours. As such, no new left turn lanes are warranted in conjunction with the proposed development.

Turning movement volumes of fewer than 20 major street right turns are similarly too low to warrant installation of dedicated right-turn lanes. All study intersections are also projected to have fewer than 20 major street right turns during each of the peak hours. As such, no new right turn lanes are warranted in conjunction with the proposed development.

Based on the analysis, no new turn lanes are recommended for the study intersections.

## Intersection Sight Distance Analysis

Intersection sight distance was examined for the proposed site access intersections on Strauss Avenue and Junker Street.

In accordance with the methodologies described in A Policy on Geometric Design of Highways and Streets, published by the American Association of State Highway and Transportation Officials (the AASHTO Green Book), intersection sight distance was measured from the centerline of the respective driveways 15 feet behind the edge of the traveled way and 3.5 feet above the driveway surface to an oncoming driver's eye position 3.5 feet above the approaching travel lanes.

For the proposed driveway on Strauss Avenue, intersection sight distance to the northwest (i.e., approaching from Pioneer Boulevard eastbound) was measured to be 88 feet. Sight distance was limited by the existing vacant building located in the southwest corner of the intersection of Pioneer Boulevard and Strauss Avenue. Intersection sight distance to the north (i.e., vehicles approaching via Strauss Avenue southbound) was measured to be 165 feet. Sight distance was limited by on-street parking along the east side of Strauss Avenue.

The minimum required intersection sight distance for safe operation of the proposed access was calculated to be 80 feet to the northwest and 155 feet to the northwest and north, respectively. These minimums were calculated based on stopping sight distance for vehicles making eastbound right turns from Pioneer Boulevard onto Strauss Avenue at 15 mph and for southbound vehicles on Strauss Avenue traveling at 25 mph . Based on the sight distance analysis, the proposed access could operate safely.

Although the available intersection sight distances at the site access driveway meet minimum stopping sight distance standards for safety, the full required intersection sight distances for these approaches would be 170 feet and 280 feet for the approach design speeds described above. As such, conflicts between exiting vehicles and through traffic on Strauss Avenue would be expected to result in the need for major-street traffic on Strauss Avenue to slow or stop to avoid conflicts. If this slowing or stopping is accompanied by a southbound travel demand of more than 2 vehicles, it could also result in queues backing up into Pioneer Boulevard due to the close spacing between the access and the existing public intersection.


If the site access on Strauss Avenue was limited to entering traffic only, no conflicts or delays would occur at this site access driveway, and southbound traffic on Strauss Avenue would be free flowing. Notably, utilization of this driveway for exiting movements from the site would also result in increased travel distances for exiting drivers, since all vehicles exiting westbound from the site would be required to turn south onto Strauss Avenue, then east on Junker Street. As such, it would be more efficient both for operation of Strauss Avenue and for operation of the site to restrict this driveway to entering vehicles only. Additionally, restriction of the site access driveway on Strauss Avenue to entering traffic only would ensure that errant drivers do not attempt to turn right onto Strauss Avenue against the one-way southbound restriction when trying to return to Pioneer Boulevard. Based on these factors, it is recommended that the site access driveway on Strauss Avenue be restricted to entering vehicles only.

For the proposed driveway on Junker Street, intersection sight distance to the northwest was measured to be in excess of 280 feet. The available intersection sight distance for this driveway is sufficient for safe and efficient operation of the access, without the need for through traffic on Junker Street to significantly slow or stop to avoid collisions. Accordingly, the south site access driveway on Junker Street can adequately accommodate both entering and exiting traffic.

## Conclusions

The study intersections are currently operating acceptably per City of Sandy and ODOT standards and are projected to continue operating acceptably through 2024 either with or without the addition of site trips from the proposed development. No operational mitigations are necessary or recommended.

Strauss Avenue and Junker Street are classified as local streets. Both streets will accommodate fewer than 1,000 vehicle trips per day with completion of the proposed development.

The study intersections are currently operating acceptably with respect to safety. No specific safety improvements are recommended in conjunction with the proposed site use.

No new turn lanes or traffic signals are recommended in conjunction with the proposed development.
Based on the intersection sight distance analysis and in consideration of the traffic patterns and conflicts surrounding the site access driveways, it is recommended that the driveway on Strauss Avenue be limited to entering vehicles only. The site access driveway on Junker Street can safely and efficiently accommodate both entering and exiting traffic.


## APPENDIX




Note: Total study counts contained in parentheses.

|  | HV\% | PHF |
| :--- | :---: | :---: |
| EB | $11.2 \%$ | 0.82 |
| WB | $0.0 \%$ | 0.00 |
| NB | $0.0 \%$ | 0.00 |
| SB | $13.0 \%$ | 0.52 |
| All | $11.3 \%$ | 0.82 |

Traffic Counts - Motorized Vehicles

| Interval | PIONEER BOULEVARD Eastbound |  |  |  | PIONEER BOULEVARD Westbound |  |  |  | STRAUSS AVENUE <br> Northbound |  |  |  | STRAUSS AVENUE Southbound |  |  |  | Total | Rolling Hour |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |  |  |
| 7:00 AM | 0 | 0 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41 | 598 |
| 7:05 AM | 0 | 0 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 638 |
| 7:10 AM | 0 | 0 | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 654 |
| 7:15 AM | 0 | 0 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 | 708 |
| 7:20 AM | 0 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 36 | 759 |
| 7:25 AM | 0 | 0 | 36 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 | 790 |
| 7:30 AM | 0 | 0 | 57 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 57 | 828 |
| 7:35 AM | 0 | 0 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 | 838 |
| 7:40 AM | 0 | 0 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 | 853 |
| 7:45 AM | 0 | 0 | 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 64 | 855 |
| 7:50 AM | 0 | 0 | 65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 67 | 853 |
| 7:55 AM | 0 | 0 | 63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63 | 850 |
| 8:00 AM | 0 | 0 | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 81 | 859 |
| 8:05 AM | 0 | 0 | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 54 |  |
| 8:10 AM | 0 | 0 | 93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 98 |  |
| 8:15 AM | 0 | 0 | 96 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 98 |  |
| 8:20 AM | 0 | 0 | 66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 67 |  |
| 8:25 AM | 0 | 0 | 72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 75 |  |
| 8:30 AM | 0 | 0 | 65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 67 |  |
| 8:35 AM | 0 | 0 | 65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 67 |  |
| 8:40 AM | 0 | 0 | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 54 |  |
| 8:45 AM | 0 | 0 | 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 62 |  |
| 8:50 AM | 0 | 0 | 63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 64 |  |
| 8:55 AM | 0 | 0 | 71 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 72 |  |
| Count Total | 0 | 0 | 1,427 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 0 | 0 | 1,457 |  |
| Peak Hour | 0 | 0 | 836 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 0 | 859 |  |

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

| Interval | Heavy Vehicles |  |  |  |  | Interval Start Time | Bicycles on Roadway |  |  |  |  | Interval <br> Start Time | Pedestrians/Bicycles on Crosswalk |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | EB | NB | WB | SB | Total |  | EB | NB | WB | SB | Total |  | EB | NB | WB | SB | Total |
| 7:00 AM | 8 | 0 | 0 | 0 | 8 | 7:00 AM | 0 | 0 | 0 | 0 | 0 | 7:00 AM | 0 | 0 | 0 | 0 | 0 |
| 7:05 AM | 6 | 0 | 0 | 0 | 6 | 7:05 AM | 0 | 0 | 0 | 0 | 0 | 7:05 AM | 0 | 0 | 0 | 0 | 0 |
| 7:10 AM | 9 | 0 | 0 | 0 | 9 | 7:10 AM | 0 | 0 | 0 | 0 | 0 | 7:10 AM | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 5 | 0 | 0 | 0 | 5 | 7:15 AM | 0 | 0 | 0 | 0 | 0 | 7:15 AM | 0 | 0 | 0 | 0 | 0 |
| 7:20 AM | 9 | 0 | 0 | 0 | 9 | 7:20 AM | 0 | 0 | 0 | 0 | 0 | 7:20 AM | 0 | 0 | 0 | 0 | 0 |
| 7:25 AM | 8 | 0 | 0 | 0 | 8 | 7:25 AM | 0 | 0 | 0 | 0 | 0 | 7:25 AM | 1 | 0 | 0 | 0 | 1 |
| 7:30 AM | 8 | 0 | 0 | 0 | 8 | 7:30 AM | 0 | 0 | 0 | 0 | 0 | 7:30 AM | 0 | 0 | 0 | 0 | 0 |
| 7:35 AM | 11 | 0 | 0 | 0 | 11 | 7:35 AM | 0 | 0 | 0 | 0 | 0 | 7:35 AM | 0 | 0 | 0 | 0 | 0 |
| 7:40 AM | 2 | 0 | 0 | 0 | 2 | 7:40 AM | 0 | 0 | 0 | 0 | 0 | 7:40 AM | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 6 | 0 | 0 | 0 | 6 | 7:45 AM | 0 | 0 | 0 | 0 | 0 | 7:45 AM | 0 | 0 | 0 | 0 | 0 |
| 7:50 AM | 4 | 0 | 0 | 0 | 4 | 7:50 AM | 0 | 0 | 0 | 0 | 0 | 7:50 AM | 0 | 0 | 0 | 0 | 0 |
| 7:55 AM | 7 | 0 | 0 | 0 | 7 | 7:55 AM | 0 | 0 | 0 | 0 | 0 | 7:55 AM | 0 | 1 | 0 | 0 | 1 |
| 8:00 AM | 7 | 0 | 0 | 0 | 7 | 8:00 AM | 0 | 0 | 0 | 0 | 0 | 8:00 AM | 0 | 0 | 0 | 0 | 0 |
| 8:05 AM | 5 | 0 | 0 | 2 | 7 | 8:05 AM | 0 | 0 | 0 | 0 | 0 | 8:05 AM | 0 | 0 | 0 | 0 | 0 |
| 8:10 AM | 16 | 0 | 0 | 0 | 16 | 8:10 AM | 0 | 0 | 0 | 0 | 0 | 8:10 AM | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 12 | 0 | 0 | 0 | 12 | 8:15 AM | 0 | 0 | 0 | 0 | 0 | 8:15 AM | 1 | 0 | 0 | 0 | 1 |
| 8:20 AM | 9 | 0 | 0 | 0 | 9 | 8:20 AM | 0 | 0 | 0 | 0 | 0 | 8:20 AM | 0 | 0 | 0 | 0 | 0 |
| 8:25 AM | 9 | 0 | 0 | 1 | 10 | 8:25 AM | 0 | 0 | 0 | 0 | 0 | 8:25 AM | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 7 | 0 | 0 | 0 | 7 | 8:30 AM | 0 | 0 | 0 | 0 | 0 | 8:30 AM | 0 | 0 | 0 | 0 | 0 |
| 8:35 AM | 3 | 0 | 0 | 0 | 3 | 8:35 AM | 0 | 0 | 0 | 0 | 0 | 8:35 AM | 0 | 0 | 0 | 0 | 0 |
| 8:40 AM | 9 | 0 | 0 | 0 | 9 | 8:40 AM | 0 | 0 | 0 | 0 | 0 | 8:40 AM | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 8 | 0 | 0 | 0 | 8 | 8:45 AM | 0 | 0 | 0 | 0 | 0 | 8:45 AM | 0 | 0 | 0 | 0 | 0 |
| 8:50 AM | 6 | 0 | 0 | 0 | 6 | 8:50 AM | 0 | 0 | 0 | 0 | 0 | 8:50 AM | 0 | 0 | 0 | 0 | 0 |
| 8:55 AM | 3 | 0 | 0 | 0 | 3 | 8:55 AM | 0 | 0 | 0 | 0 | 0 | 8:55 AM | 0 | 1 | 0 | 0 | 1 |
| Count Total | 177 | 0 | 0 | 3 | 180 | Count Total | 0 | 0 | 0 | 0 | 0 | Count Total | 2 | 2 | 0 | 0 | 4 |
| Peak Hour | 94 | 0 | 0 | 3 | 97 | Peak Hour | 0 | 0 | 0 | 0 | 0 | Peak Hour | 1 | 1 | 0 | 0 | 2 |



Note: Total study counts contained in parentheses.

|  | HV\% | PHF |
| :--- | :---: | :---: |
| EB | $12.3 \%$ | 0.81 |
| WB | $0.0 \%$ | 0.00 |
| NB | $0.0 \%$ | 0.50 |
| SB | $0.0 \%$ | 0.00 |
| All | $12.3 \%$ | 0.81 |

Traffic Counts - Motorized Vehicles

| Interval | PIONEER BOULEVARD Eastbound |  |  |  | PIONEER BOULEVARD <br> Westbound |  |  |  | JUNKER STREET <br> Northbound |  |  |  | JUNKER STREET <br> Southbound |  |  |  | Total | Rolling Hour |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |  |  |
| 7:00 AM | 0 | 0 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 42 | 592 |
| 7:05 AM | 0 | 0 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 624 |
| 7:10 AM | 0 | 0 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41 | 643 |
| 7:15 AM | 0 | 0 | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 47 | 699 |
| 7:20 AM | 0 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 752 |
| 7:25 AM | 0 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 783 |
| 7:30 AM | 0 | 0 | 53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 54 | 819 |
| 7:35 AM | 0 | 0 | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 | 830 |
| 7:40 AM | 0 | 0 | 56 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56 | 845 |
| 7:45 AM | 0 | 0 | 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 62 | 851 |
| 7:50 AM | 0 | 0 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 843 |
| 7:55 AM | 0 | 0 | 63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63 | 840 |
| 8:00 AM | 0 | 0 | 74 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 74 | 848 |
| 8:05 AM | 0 | 0 | 57 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 57 |  |
| 8:10 AM | 0 | 0 | 97 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 97 |  |
| 8:15 AM | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |  |
| 8:20 AM | 0 | 0 | 65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 65 |  |
| 8:25 AM | 0 | 0 | 72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 72 |  |
| 8:30 AM | 0 | 0 | 65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 65 |  |
| 8:35 AM | 0 | 0 | 64 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 64 |  |
| 8:40 AM | 0 | 0 | 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 62 |  |
| 8:45 AM | 0 | 0 | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 54 |  |
| 8:50 AM | 0 | 0 | 67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 67 |  |
| 8:55 AM | 0 | 0 | 70 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 71 |  |
| Count Total | 0 | 0 | 1,435 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 1,440 |  |
| Peak Hour | 0 | 0 | 851 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 851 |  |

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

| Interval | Heavy Vehicles |  |  |  |  | Interval Start Time | Bicycles on Roadway |  |  |  |  | Interval <br> Start Time | Pedestrians/Bicycles on Crosswalk |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | EB | NB | WB | SB | Total |  | EB | NB | WB | SB | Total |  | EB | NB | WB | SB | Total |
| 7:00 AM | 9 | 0 | 0 | 0 | 9 | 7:00 AM | 0 | 0 | 0 | 0 | 0 | 7:00 AM | 0 | 0 | 0 | 0 | 0 |
| 7:05 AM | 7 | 0 | 0 | 0 | 7 | 7:05 AM | 0 | 0 | 0 | 0 | 0 | 7:05 AM | 0 | 0 | 0 | 0 | 0 |
| 7:10 AM | 8 | 0 | 0 | 0 | 8 | 7:10 AM | 0 | 0 | 0 | 0 | 0 | 7:10 AM | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 7 | 0 | 0 | 0 | 7 | 7:15 AM | 0 | 0 | 0 | 0 | 0 | 7:15 AM | 0 | 0 | 0 | 0 | 0 |
| 7:20 AM | 9 | 0 | 0 | 0 | 9 | 7:20 AM | 0 | 0 | 0 | 0 | 0 | 7:20 AM | 0 | 0 | 0 | 0 | 0 |
| 7:25 AM | 6 | 0 | 0 | 0 | 6 | 7:25 AM | 0 | 0 | 0 | 0 | 0 | 7:25 AM | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 8 | 1 | 0 | 0 | 9 | 7:30 AM | 0 | 0 | 0 | 0 | 0 | 7:30 AM | 0 | 0 | 0 | 0 | 0 |
| 7:35 AM | 12 | 0 | 0 | 0 | 12 | 7:35 AM | 0 | 0 | 0 | 0 | 0 | 7:35 AM | 0 | 0 | 0 | 0 | 0 |
| 7:40 AM | 3 | 0 | 0 | 0 | 3 | 7:40 AM | 0 | 0 | 0 | 0 | 0 | 7:40 AM | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 5 | 0 | 0 | 0 | 5 | 7:45 AM | 0 | 0 | 0 | 0 | 0 | 7:45 AM | 0 | 0 | 0 | 0 | 0 |
| 7:50 AM | 7 | 0 | 0 | 0 | 7 | 7:50 AM | 0 | 0 | 0 | 0 | 0 | 7:50 AM | 0 | 0 | 0 | 0 | 0 |
| 7:55 AM | 8 | 0 | 0 | 0 | 8 | 7:55 AM | 0 | 0 | 0 | 0 | 0 | 7:55 AM | 0 | 1 | 0 | 0 | 1 |
| 8:00 AM | 7 | 0 | 0 | 0 | 7 | 8:00 AM | 0 | 0 | 0 | 0 | 0 | 8:00 AM | 0 | 0 | 0 | 0 | 0 |
| 8:05 AM | 6 | 0 | 0 | 0 | 6 | 8:05 AM | 0 | 0 | 0 | 0 | 0 | 8:05 AM | 0 | 0 | 0 | 0 | 0 |
| 8:10 AM | 17 | 0 | 0 | 0 | 17 | 8:10 AM | 0 | 0 | 0 | 0 | 0 | 8:10 AM | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 14 | 0 | 0 | 0 | 14 | 8:15 AM | 0 | 0 | 0 | 0 | 0 | 8:15 AM | 0 | 0 | 0 | 0 | 0 |
| 8:20 AM | 8 | 0 | 0 | 0 | 8 | 8:20 AM | 0 | 0 | 0 | 0 | 0 | 8:20 AM | 0 | 0 | 0 | 0 | 0 |
| 8:25 AM | 11 | 0 | 0 | 0 | 11 | 8:25 AM | 0 | 0 | 0 | 0 | 0 | 8:25 AM | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 7 | 0 | 0 | 0 | 7 | 8:30 AM | 0 | 0 | 0 | 0 | 0 | 8:30 AM | 0 | 0 | 0 | 0 | 0 |
| 8:35 AM | 4 | 0 | 0 | 0 | 4 | 8:35 AM | 0 | 0 | 0 | 0 | 0 | 8:35 AM | 0 | 0 | 0 | 0 | 0 |
| 8:40 AM | 11 | 0 | 0 | 0 | 11 | 8:40 AM | 0 | 0 | 0 | 0 | 0 | 8:40 AM | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 6 | 0 | 0 | 0 | 6 | 8:45 AM | 0 | 0 | 0 | 0 | 0 | 8:45 AM | 0 | 0 | 0 | 0 | 0 |
| 8:50 AM | 7 | 0 | 0 | 0 | 7 | 8:50 AM | 0 | 0 | 0 | 0 | 0 | 8:50 AM | 0 | 0 | 0 | 0 | 0 |
| 8:55 AM | 3 | 0 | 0 | 0 | 3 | 8:55 AM | 0 | 0 | 0 | 0 | 0 | 8:55 AM | 0 | 1 | 0 | 0 | 1 |
| Count Total | 190 | 1 | 0 | 0 | 191 | Count Total | 0 | 0 | 0 | 0 | 0 | Count Total | 0 | 2 | 0 | 0 | 2 |
| Peak Hour | 105 | 0 | 0 | 0 | 105 | Peak Hour | 0 | 0 | 0 | 0 | 0 | Peak Hour | 0 | 1 | 0 | 0 | 1 |



Note: Total study counts contained in parentheses.

|  | HV\% | PHF |
| :--- | :---: | :---: |
| EB | $1.9 \%$ | 0.94 |
| WB | $0.0 \%$ | 0.00 |
| NB | $0.0 \%$ | 0.00 |
| SB | $3.2 \%$ | 0.64 |
| All | $1.9 \%$ | 0.94 |

Traffic Counts - Motorized Vehicles

| Interval | PIONEER BOULEVARD Eastbound |  |  |  | PIONEER BOULEVARD <br> Westbound |  |  |  | STRAUSS AVENUE <br> Northbound |  |  |  | STRAUSS AVENUE <br> Southbound |  |  |  | Total | Rolling Hour |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |  |  |
| 4:00 PM | 0 | 0 | 102 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 105 | 1,439 |
| 4:05 PM | 0 | 0 | 113 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 116 | 1,480 |
| 4:10 PM | 0 | 0 | 124 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 125 | 1,495 |
| 4:15 PM | 0 | 0 | 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 115 | 1,486 |
| 4:20 PM | 0 | 0 | 122 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 127 | 1,503 |
| 4:25 PM | 0 | 0 | 127 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 128 | 1,510 |
| 4:30 PM | 0 | 0 | 106 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 107 | 1,520 |
| 4:35 PM | 0 | 0 | 126 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 130 | 1,515 |
| 4:40 PM | 0 | 0 | 133 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 135 | 1,487 |
| 4:45 PM | 0 | 0 | 113 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 115 | 1,470 |
| 4:50 PM | 0 | 0 | 119 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 120 | 1,460 |
| 4:55 PM | 0 | 0 | 115 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 116 | 1,458 |
| 5:00 PM | 0 | 0 | 142 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 146 | 1,446 |
| 5:05 PM | 0 | 0 | 125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 131 |  |
| 5:10 PM | 0 | 0 | 112 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 116 |  |
| 5:15 PM | 0 | 0 | 128 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 132 |  |
| 5:20 PM | 0 | 0 | 131 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 134 |  |
| 5:25 PM | 0 | 0 | 138 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 138 |  |
| 5:30 PM | 0 | 0 | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 102 |  |
| 5:35 PM | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 102 |  |
| 5:40 PM | 0 | 0 | 118 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 118 |  |
| 5:45 PM | 0 | 0 | 104 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 105 |  |
| 5:50 PM | 0 | 0 | 118 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 118 |  |
| 5:55 PM | 0 | 0 | 98 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 104 |  |
| Count Total | 0 | 0 | 2,822 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 61 | 0 | 0 | 2,885 |  |
| Peak Hour | 0 | 0 | 1,488 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 0 | 0 | 1,520 |  |

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

| Interval | Heavy Vehicles |  |  |  |  | Interval Start Time | Bicycles on Roadway |  |  |  |  | Interval <br> Start Time | Pedestrians/Bicycles on Crosswalk |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | EB | NB | WB | SB | Total |  | EB | NB | WB | SB | Total |  | EB | NB | WB | SB | Total |
| 4:00 PM | 4 | 0 | 0 | 0 | 4 | 4:00 PM | 0 | 0 | 0 | 0 | 0 | 4:00 PM | 0 | 1 | 0 | 0 | 1 |
| 4:05 PM | 5 | 0 | 0 | 1 | 6 | 4:05 PM | 0 | 0 | 0 | 0 | 0 | 4:05 PM | 0 | 0 | 0 | 1 | 1 |
| 4:10 PM | 3 | 0 | 0 | 0 | 3 | 4:10 PM | 0 | 0 | 0 | 0 | 0 | 4:10 PM | 0 | 0 | 0 | 1 | 1 |
| 4:15 PM | 4 | 0 | 0 | 0 | 4 | 4:15 PM | 0 | 0 | 0 | 0 | 0 | 4:15 PM | 0 | 1 | 0 | 2 | 3 |
| 4:20 PM | 6 | 0 | 0 | 0 | 6 | 4:20 PM | 0 | 0 | 0 | 0 | 0 | 4:20 PM | 0 | 0 | 0 | 0 | 0 |
| 4:25 PM | 1 | 0 | 0 | 0 | 1 | 4:25 PM | 0 | 0 | 0 | 0 | 0 | 4:25 PM | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 5 | 0 | 0 | 0 | 5 | 4:30 PM | 0 | 0 | 0 | 0 | 0 | 4:30 PM | 0 | 0 | 0 | 0 | 0 |
| 4:35 PM | 2 | 0 | 0 | 0 | 2 | 4:35 PM | 0 | 0 | 0 | 0 | 0 | 4:35 PM | 0 | 0 | 0 | 0 | 0 |
| 4:40 PM | 1 | 0 | 0 | 0 | 1 | 4:40 PM | 0 | 0 | 0 | 0 | 0 | 4:40 PM | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 1 | 0 | 0 | 0 | 1 | 4:45 PM | 0 | 0 | 0 | 0 | 0 | 4:45 PM | 0 | 0 | 0 | 0 | 0 |
| 4:50 PM | 4 | 0 | 0 | 0 | 4 | 4:50 PM | 0 | 0 | 0 | 0 | 0 | 4:50 PM | 0 | 0 | 0 | 1 | 1 |
| 4:55 PM | 1 | 0 | 0 | 0 | 1 | 4:55 PM | 0 | 0 | 0 | 0 | 0 | 4:55 PM | 0 | 1 | 0 | 0 | 1 |
| 5:00 PM | 3 | 0 | 0 | 1 | 4 | 5:00 PM | 0 | 0 | 0 | 0 | 0 | 5:00 PM | 0 | 0 | 0 | 0 | 0 |
| 5:05 PM | 2 | 0 | 0 | 0 | 2 | 5:05 PM | 0 | 0 | 0 | 0 | 0 | 5:05 PM | 0 | 1 | 1 | 0 | 2 |
| 5:10 PM | 4 | 0 | 0 | 0 | 4 | 5:10 PM | 0 | 0 | 0 | 0 | 0 | 5:10 PM | 0 | 0 | 0 | 1 | 1 |
| 5:15 PM | 1 | 0 | 0 | 0 | 1 | 5:15 PM | 0 | 0 | 0 | 0 | 0 | 5:15 PM | 0 | 0 | 0 | 0 | 0 |
| 5:20 PM | 1 | 0 | 0 | 0 | 1 | 5:20 PM | 0 | 0 | 0 | 0 | 0 | 5:20 PM | 0 | 0 | 0 | 0 | 0 |
| 5:25 PM | 3 | 0 | 0 | 0 | 3 | 5:25 PM | 0 | 0 | 0 | 0 | 0 | 5:25 PM | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 5:30 PM | 0 | 0 | 0 | 0 | 0 | 5:30 PM | 0 | 0 | 0 | 0 | 0 |
| 5:35 PM | 1 | 0 | 0 | 0 | 1 | 5:35 PM | 0 | 0 | 0 | 0 | 0 | 5:35 PM | 0 | 0 | 0 | 0 | 0 |
| 5:40 PM | 1 | 0 | 0 | 0 | 1 | 5:40 PM | 0 | 0 | 0 | 0 | 0 | 5:40 PM | 0 | 1 | 0 | 0 | 1 |
| 5:45 PM | 2 | 0 | 0 | 0 | 2 | 5:45 PM | 0 | 0 | 0 | 0 | 0 | 5:45 PM | 0 | 0 | 0 | 0 | 0 |
| 5:50 PM | 1 | 0 | 0 | 0 | 1 | 5:50 PM | 0 | 0 | 0 | 0 | 0 | 5:50 PM | 0 | 0 | 0 | 1 | 1 |
| 5:55 PM | 0 | 0 | 0 | 0 | 0 | 5:55 PM | 0 | 0 | 0 | 0 | 0 | 5:55 PM | 0 | 0 | 0 | 0 | 0 |
| Count Total | 56 | 0 | 0 | 2 | 58 | Count Total | 0 | 0 | 0 | 0 | 0 | Count Total | 0 | 5 | 1 | 7 | 13 |
| Peak Hour | 28 | 0 | 0 | 1 | 29 | Peak Hour | 0 | 0 | 0 | 0 | 0 | Peak Hour | 0 | 2 | 1 | 2 | 5 |



Note: Total study counts contained in parentheses.

|  | HV\% | PHF |
| :--- | :---: | :---: |
| EB | $1.9 \%$ | 0.95 |
| WB | $0.0 \%$ | 0.00 |
| NB | $0.0 \%$ | 0.50 |
| SB | $0.0 \%$ | 0.00 |
| All | $1.9 \%$ | 0.95 |

Traffic Counts - Motorized Vehicles

| Interval | PIONEER BOULEVARD Eastbound |  |  |  | PIONEER BOULEVARD Westbound |  |  |  | JUNKER STREET <br> Northbound |  |  |  | JUNKER STREET <br> Southbound |  |  |  | Total | Rolling Hour |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right | U-Turn | Left | Thru | Right |  |  |
| 4:00 PM | 0 | 0 | 113 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 114 | 1,422 |
| 4:05 PM | 0 | 0 | 123 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 124 | 1,453 |
| 4:10 PM | 0 | 0 | 110 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 111 | 1,459 |
| 4:15 PM | 0 | 0 | 117 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 117 | 1,457 |
| 4:20 PM | 0 | 0 | 123 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 123 | 1,471 |
| 4:25 PM | 0 | 0 | 118 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 118 | 1,475 |
| 4:30 PM | 0 | 0 | 114 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 114 | 1,493 |
| 4:35 PM | 0 | 0 | 125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 125 | 1,482 |
| 4:40 PM | 0 | 0 | 136 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 136 | 1,456 |
| 4:45 PM | 0 | 0 | 116 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 116 | 1,433 |
| 4:50 PM | 0 | 0 | 109 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 109 | 1,420 |
| 4:55 PM | 0 | 0 | 115 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 115 | 1,424 |
| 5:00 PM | 0 | 0 | 144 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 145 | 1,407 |
| 5:05 PM | 0 | 0 | 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 130 |  |
| 5:10 PM | 0 | 0 | 109 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 109 |  |
| 5:15 PM | 0 | 0 | 131 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 131 |  |
| 5:20 PM | 0 | 0 | 127 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 127 |  |
| 5:25 PM | 0 | 0 | 136 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 136 |  |
| 5:30 PM | 0 | 0 | 103 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 103 |  |
| 5:35 PM | 0 | 0 | 98 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 99 |  |
| 5:40 PM | 0 | 0 | 112 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 113 |  |
| 5:45 PM | 0 | 0 | 103 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 103 |  |
| 5:50 PM | 0 | 0 | 113 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 113 |  |
| 5:55 PM | 0 | 0 | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 98 |  |
| Count Total | 0 | 0 | 2,823 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 2,829 |  |
| Peak Hour | 0 | 0 | 1,492 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1,493 |  |

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

| Interval | Heavy Vehicles |  |  |  |  | Interval Start Time | Bicycles on Roadway |  |  |  |  | Interval Start Time | Pedestrians/Bicycles on Crosswalk |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | EB | NB | WB | SB | Total |  | EB | NB | WB | SB | Total |  | EB | NB | WB | SB | Total |
| 4:00 PM | 3 | 0 | 0 | 0 | 3 | 4:00 PM | 0 | 0 | 0 | 0 | 0 | 4:00 PM | 0 | 1 | 0 | 0 | 1 |
| 4:05 PM | 5 | 0 | 0 | 0 | 5 | 4:05 PM | 0 | 0 | 0 | 0 | 0 | 4:05 PM | 0 | 1 | 0 | 0 | 1 |
| 4:10 PM | 2 | 0 | 0 | 0 | 2 | 4:10 PM | 0 | 0 | 0 | 0 | 0 | 4:10 PM | 3 | 1 | 0 | 0 | 4 |
| 4:15 PM | 4 | 0 | 0 | 0 | 4 | 4:15 PM | 0 | 0 | 0 | 0 | 0 | 4:15 PM | 0 | 0 | 0 | 0 | 0 |
| 4:20 PM | 7 | 0 | 0 | 0 | 7 | 4:20 PM | 0 | 0 | 0 | 0 | 0 | 4:20 PM | 0 | 1 | 0 | 0 | 1 |
| 4:25 PM | 3 | 0 | 0 | 0 | 3 | 4:25 PM | 0 | 0 | 0 | 0 | 0 | 4:25 PM | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 5 | 0 | 0 | 0 | 5 | 4:30 PM | 0 | 0 | 0 | 0 | 0 | 4:30 PM | 1 | 0 | 0 | 0 | 1 |
| 4:35 PM | 3 | 0 | 0 | 0 | 3 | 4:35 PM | 0 | 0 | 0 | 0 | 0 | 4:35 PM | 0 | 0 | 0 | 0 | 0 |
| 4:40 PM | 1 | 0 | 0 | 0 | 1 | 4:40 PM | 0 | 0 | 0 | 0 | 0 | 4:40 PM | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 1 | 0 | 0 | 0 | 1 | 4:45 PM | 0 | 0 | 0 | 0 | 0 | 4:45 PM | 0 | 0 | 0 | 0 | 0 |
| 4:50 PM | 4 | 0 | 0 | 0 | 4 | 4:50 PM | 0 | 0 | 0 | 0 | 0 | 4:50 PM | 2 | 1 | 0 | 0 | 3 |
| 4:55 PM | 1 | 0 | 0 | 0 | 1 | 4:55 PM | 0 | 0 | 0 | 0 | 0 | 4:55 PM | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 3 | 0 | 0 | 0 | 3 | 5:00 PM | 0 | 0 | 0 | 0 | 0 | 5:00 PM | 0 | 0 | 0 | 0 | 0 |
| 5:05 PM | 2 | 0 | 0 | 0 | 2 | 5:05 PM | 0 | 0 | 0 | 0 | 0 | 5:05 PM | 0 | 0 | 0 | 0 | 0 |
| 5:10 PM | 4 | 0 | 0 | 0 | 4 | 5:10 PM | 0 | 0 | 0 | 0 | 0 | 5:10 PM | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 1 | 0 | 0 | 0 | 1 | 5:15 PM | 0 | 0 | 0 | 0 | 0 | 5:15 PM | 0 | 0 | 0 | 0 | 0 |
| 5:20 PM | 1 | 0 | 0 | 0 | 1 | 5:20 PM | 0 | 0 | 0 | 0 | 0 | 5:20 PM | 0 | 0 | 0 | 0 | 0 |
| 5:25 PM | 3 | 0 | 0 | 0 | 3 | 5:25 PM | 0 | 0 | 0 | 0 | 0 | 5:25 PM | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 5:30 PM | 0 | 0 | 0 | 0 | 0 | 5:30 PM | 0 | 0 | 0 | 0 | 0 |
| 5:35 PM | 0 | 0 | 0 | 0 | 0 | 5:35 PM | 0 | 0 | 0 | 0 | 0 | 5:35 PM | 0 | 0 | 0 | 0 | 0 |
| 5:40 PM | 2 | 0 | 0 | 0 | 2 | 5:40 PM | 0 | 0 | 0 | 0 | 0 | 5:40 PM | 0 | 1 | 0 | 0 | 1 |
| 5:45 PM | 2 | 0 | 0 | 0 | 2 | 5:45 PM | 0 | 0 | 0 | 0 | 0 | 5:45 PM | 0 | 0 | 0 | 0 | 0 |
| 5:50 PM | 1 | 0 | 0 | 0 | 1 | 5:50 PM | 0 | 0 | 0 | 0 | 0 | 5:50 PM | 0 | 0 | 0 | 0 | 0 |
| 5:55 PM | 0 | 0 | 0 | 0 | 0 | 5:55 PM | 0 | 0 | 0 | 0 | 0 | 5:55 PM | 0 | 0 | 0 | 0 | 0 |
| Count Total | 58 | 0 | 0 | 0 | 58 | Count Total | 0 | 0 | 0 | 0 | 0 | Count Total | 6 | 6 | 0 | 0 | 12 |
| Peak Hour | 29 | 0 | 0 | 0 | 29 | Peak Hour | 0 | 0 | 0 | 0 | 0 | Peak Hour | 3 | 1 | 0 | 0 | 4 |

## Barlow Trail Veterinary Clinic: Seasonal Adjustment Calculations

Seasonal Adjustment Using ATR \#26-003

|  | $\mathbf{2 0 2 1}$ | $\mathbf{2 0 2 0}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 7}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Peak Month <br> (August) | $107 \%$ | $115 \%$ | $107 \%$ | $113 \%$ | $108 \%$ |
| Count Month <br> (November) | $98 \%$ | $95 \%$ | $97 \%$ | $95 \%$ | $97 \%$ |


| Average Peak Month (August) $=$ | $109.3 \%$ |
| :--- | ---: |
| Average Count Month (November) $=$ | $96.3 \%$ |

## Seasonal Adjustment = <br> 1.135



HCM 6th Signalized Intersection Summary
1: Strauss Ave \& Pioneer Blvd
12/04/2022


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0 |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | 个 |  |  |  |  |  |
| Traffic Vol, veh/h | 966 | 0 | 0 | 0 | 0 | 1 |
| Future Vol, veh/h | 966 | 0 | 0 | 0 | 0 | 1 |
| Conflicting Peds, \#/hr | 0 | 1 | 0 | 0 | 0 | 1 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, \# | 0 | - | $1081-266176$ | 0 | - |  |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 81 | 81 | 81 | 81 | 81 | 81 |
| Heavy Vehicles, \% | 12 | 12 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1193 | 0 | 0 | 0 | 0 | 1 |


| Major/Minor | Major1 | Minor1 |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 0 | 0 | - | 599 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | - | - | - | 6.94 |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | - | - | - | 3.32 |
| Pot Cap-1 Maneuver | - | - | 0 | 445 |
| Stage 1 | - | - | 0 | - |
| Stage 2 | - | - | 0 | - |
| Platoon blocked, \% | - | - |  |  |
| Mov Cap-1 Maneuver | - | - | - | 445 |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |


| Approach | EB | NB |
| :--- | ---: | ---: |
| HCM Control Delay, s | 0 | 13.1 |
| HCM LOS | B |  |


| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR |
| :--- | ---: | ---: | :---: |
| Capacity (veh/h) | 445 | - | - |
| HCM Lane V/C Ratio | 0.003 | - | - |
| HCM Control Delay (s) | 13.1 | - | - |
| HCM Lane LOS | B | - | - |
| HCM 95th \%tile Q(veh) | 0 | - | - |



HCM 6th Signalized Intersection Summary
1: Strauss Ave \& Pioneer Blvd
12/04/2022


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0 |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | 怍 |  |  |  |  | $\mathbf{7}$ |
| Traffic Vol, veh/h | 1693 | 0 | 0 | 0 | 0 | 1 |
| Future Vol, veh/h | 1693 | 0 | 0 | 0 | 0 | 1 |
| Conflicting Peds, \#/hr | 0 | 1 | 0 | 0 | 0 | 1 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, \# | 0 | - | $1081-266176$ | 0 | - |  |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1782 | 0 | 0 | 0 | 0 | 1 |


| Major/Minor | Major1 | Minor1 |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 0 | 0 | - | 893 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | - | - | - | 6.94 |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | - | - | - | 3.32 |
| Pot Cap-1 Maneuver | - | - | 0 | 285 |
| Stage 1 | - | - | 0 | - |
| Stage 2 | - | - | 0 | - |
| Platoon blocked, \% | - | - |  |  |
| Mov Cap-1 Maneuver | - | - | - | 285 |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |


| Approach | EB | NB |
| :--- | :---: | :---: |
| HCM Control Delay, s | 0 | 17.7 |
| HCM LOS | C |  |


| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR |
| :--- | ---: | ---: | :---: |
| Capacity (veh/h) | 285 | - | - |
| HCM Lane V/C Ratio | 0.004 | - | - |
| HCM Control Delay (s) | 17.7 | - | - |
| HCM Lane LOS | C | - | - |
| HCM 95th \%tile Q(veh) | 0 | - | - |

## Trip Generation Calculation Worksheet

Land Use Description: Animal Hospital/Veterinary Clinic ITE Land Use Code: 640
Independent Variable: Gross Floor Area
Quantity: 5.772 Thousand Square Feet

## Summary of ITE Trip Generation Data

AM Peak Hour of Adjacent Street Traffic
Trip Rate: $\quad 3.64$ trips per ksf
Directional Distribution: 67\% Entering 33\% Exiting

PM Peak Hour of Adjacent Street Traffic
Trip Rate: $\quad 3.53$ trips per ksf
Directional Distribution: 40\% Entering 60\% Exiting

## Total Weekday Traffic

| Trip Rate: $\quad 21.50$ trips per ksf |  |  |
| :--- | :---: | :---: |
| Directional Distribution: | $50 \%$ Entering | $50 \%$ Exiting |

## Site Trip Generation Calculations

5.772 ksf Animal Hospital/Veterinary Clinic

|  | Entering | Exiting | Total |
| :--- | :---: | :---: | :---: |
| AM Peak Hour | 14 | 7 | 21 |
| PM Peak Hour | 8 | 12 | 20 |
| Weekday | 62 | 62 | 124 |

** Future Volume calculated based on 2017-2019 counts due to covid.

| Site id | HWY | MP | DIR | HS | Description | 2017 | 2018 | 2019 | 2020 | 2040** | RSQ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 22590 | 026 | 20.60 | 1 |  | Northwest of S.E. Kelso Road [0.50 mile] |  | 30300 |  |  | 44000 | MODEL |
| 1777 | 026 | 21.40 | 1 |  | Southeast of Southeast Kelso Road [0.30 mile] |  | 30300 |  |  | 43000 | MODEL |
| 1778 | 026 | 22.72 | 1 |  | Northwest of S.E. 362nd Drive, west city limits Sandy [ 0.02 mile] |  | 33700 |  |  | 47900 | MODEL |
| 1779 | 026 | 23.85 | 1 |  | West of Bluff Road [0.02 mile] |  | 33300 |  |  | 47700 | MODEL |
| 1780 | 026 | 23.89 | 1 |  | East of Bluff Road [0.02 mile] |  | 15700 |  |  | 22700 | MODEL |
| 1781 | 026 | 24.02 | 1 |  | West of Beers Avenue [0.02 mile] |  | 16200 |  |  | 23500 | MODEL |
| 1782 | 026 | 24.35 | 1 |  | West of Meining Ave (OR211) [0.05 mile] |  | 16000 |  |  | 23700 | MODEL |
| 1783 | 026 | 24.42 | 1 |  | East of Meining Ave (OR211) [0.02 mile] |  | 12400 |  |  | 17900 | MODEL |
| 1784 | 026 | 24.59 | 1 |  | West of Ten Eyck Road [0.02 mile] |  | 12500 |  |  | 18100 | MODEL |
| 1785 | 026 | 23.89 | 2 |  | East of Bluff Road [0.02 mile] |  | 16600 |  |  | 23600 | MODEL |
| 1786 | 026 | 24.04 | 2 |  | West of Beers Avenue [0.02 mile] |  | 18300 |  |  | 26000 | MODEL |
| 1787 | 026 | 24.36 | 2 |  | West of Meining Ave (OR211) [0.02 mile] |  | 15900 |  |  | 23000 | MODEL |
| 1788 | 026 | 24.40 | 2 |  | East of Meining Ave (OR211) [0.02 mile] |  | 13700 |  |  | 19400 | MODEL |
| 1789 | 026 | 24.61 | 2 |  | West of Ten Eyck Road [0.02 mile] |  | 12600 |  |  | 17900 | MODEL |
| 1790 | 026 | 25.10 | 1 |  | West of Langensand Road [0.02 mile] |  | 20700 |  |  | 29600 | MODEL |
| 1791 | 026 | 25.66 | 1 |  | East of Vista Loop Drive [0.10 mile] |  | 23500 |  |  | 33300 | MODEL |
| 1792 | 026 | 26.76 | 1 |  | West of S.E. Firwood Road [0.10 mile] |  | 19000 |  |  | 26900 | MODEL |
| 1793 | 026 | 26.93 | 1 |  | East of S.E. Firwood Road [0.07 mile] |  | 17800 |  |  | 25600 | MODEL |
| 1794 | 026 | 29.66 | 1 |  | West of Wagoneer Loop Drive (East Jct.) [0.23 mile] |  | 16500 |  |  | 23700 | MODEL |
| 1795 | 026 | 34.87 | 1 |  | West of E. Sleepy Hollow Drive [0.10 mile] |  | 15000 |  |  | 21800 | MODEL |
| 1796 | 026 | 35.07 | 1 |  | East of E. Sleepy Hollow Drive [0.10 mile] |  | 17400 |  |  | 25200 | MODEL |
| 1797 | 026 | 38.54 | 1 |  | West of E. Brightwood Loop Road (East Jct.) [0.10 mile] |  | 12800 |  |  | 18500 | MODEL |
| 1798 | 026 | 41.19 | 1 |  | West of Vine Maple Drive [0.02 mile] |  | 13200 |  |  | 19100 | MODEL |
| 3006 | 026 | 46.38 | 1 |  | East of Camp Creek Road (USFS 28) [0.30 mile] \{Rhododendron ATR, Sta. 03-006\} |  | 10300 |  |  | 11400 | 0.5762 |
| 1800 | 026 | 52.78 | 1 |  | West of road to Government Camp (West Jct.) [0.10 mile] |  | 10500 |  |  | 14200 | 0.7927 |
| 1801 | 026 | 54.13 | 1 |  | West of Timberline Highway [0.10 mile] |  | 8300 |  |  | 10400 | 0.6114 |



HCM 6th Signalized Intersection Summary
1: Strauss Ave \& Pioneer Blvd
12/04/2022


## Notes

User approved pedestrian interval to be less than phase max green.

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0 |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | 怍 |  |  |  |  | $\mathbf{T}$ |
| Traffic Vol, veh/h | 1063 | 0 | 0 | 0 | 0 | 1 |
| Future Vol, veh/h | 1063 | 0 | 0 | 0 | 0 | 1 |
| Conflicting Peds, \#/hr | 0 | 1 | 0 | 0 | 0 | 1 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, \# | 0 | - | $1081-266176$ | 0 | - |  |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 81 | 81 | 81 | 81 | 81 | 81 |
| Heavy Vehicles, \% | 12 | 12 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1312 | 0 | 0 | 0 | 0 | 1 |


| Major/Minor | Major1 | Minor1 |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 0 | 0 | - | 658 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | - | - | - | 6.94 |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | - | - | - | 3.32 |
| Pot Cap-1 Maneuver | - | - | 0 | 407 |
| Stage 1 | - | - | 0 | - |
| Stage 2 | - | - | 0 | - |
| Platoon blocked, \% | - | - |  |  |
| Mov Cap-1 Maneuver | - | - | - | 407 |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |


| Approach | EB | NB |
| :--- | ---: | ---: |
| HCM Control Delay, s | 0 | 13.9 |
| HCM LOS | B |  |


| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR |
| :--- | ---: | ---: | :---: |
| Capacity (veh/h) | 407 | - | - |
| HCM Lane V/C Ratio | 0.003 | - | - |
| HCM Control Delay (s) | 13.9 | - | - |
| HCM Lane LOS | B | - | - |
| HCM 95th \%tile Q(veh) | 0 | - | - |



HCM 6th Signalized Intersection Summary
1: Strauss Ave \& Pioneer Blvd
12/04/2022


Notes
User approved pedestrian interval to be less than phase max green.

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0 |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | 个 |  |  |  |  |  |
| T | 「 |  |  |  |  |  |
| Traffic Vol, veh/h | 1865 | 0 | 0 | 0 | 0 | 1 |
| Future Vol, veh/h | 1865 | 0 | 0 | 0 | 0 | 1 |
| Conflicting Peds, \#/hr | 0 | 1 | 0 | 0 | 0 | 1 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, \# | 0 | - | $1081-266176$ | 0 | - |  |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1963 | 0 | 0 | 0 | 0 | 1 |


| Major/Minor | Major1 | Minor1 |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 0 | 0 | - | 984 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | - | - | - | 6.94 |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | - | - | - | 3.32 |
| Pot Cap-1 Maneuver | - | - | 0 | 248 |
| Stage 1 | - | - | 0 | - |
| Stage 2 | - | - | 0 | - |
| Platoon blocked, \% | - | - |  |  |
| Mov Cap-1 Maneuver | - | - | - | 248 |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |


| Approach | EB | NB |
| :--- | ---: | ---: |
| HCM Control Delay, s | 0 | 19.6 |
| HCM LOS | C |  |


| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR |
| :--- | ---: | ---: | :---: |
| Capacity (veh/h) | 248 | - | - |
| HCM Lane V/C Ratio | 0.004 | - | - |
| HCM Control Delay (s) | 19.6 | - | - |
| HCM Lane LOS | C | - | - |
| HCM 95th \%tile Q(veh) | 0 | - | - |

[^0] MTA


HCM 6th Signalized Intersection Summary
1: Strauss Ave \& Pioneer Blvd
12/04/2022


## Notes

User approved pedestrian interval to be less than phase max green.


| Major/Minor | Major1 |  | Minor1 |  |
| :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 0 | 0 | - | 658 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | - | - | - | 6.94 |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | - | - | - | 3.32 |
| Pot Cap-1 Maneuver | - | - | 0 | 407 |
| Stage 1 | - | - | 0 | - |
| Stage 2 | - | - | 0 | - |
| Platoon blocked, \% | - | - |  |  |
| Mov Cap-1 Maneuver | - | - | - | 407 |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |


| Approach | EB | NB |
| :--- | :---: | :---: |
| HCM Control Delay, $s$ | 0 | 14 |
| HCM LOS | $B$ |  |


| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR |
| :--- | ---: | ---: | :---: |
| Capacity (veh/h) | 407 | - | - |
| HCM Lane V/C Ratio | 0.021 | - | - |
| HCM Control Delay (s) | 14 | - | - |
| HCM Lane LOS | B | - | - |
| HCM 95th \%tile Q(veh) | 0.1 | - | - |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.6 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | a |  |  |  |  | $\uparrow$ |
| Traffic Vol, veh/h | 1 | 0 | 0 | 0 | 14 | 0 |
| Future Vol, veh/h | 1 | 0 | 0 | 0 | 14 | 0 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 70 | 70 | 70 | 70 | 70 | 70 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1 | 0 | 0 | 0 | 20 | 0 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 7.5 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  |  |  |  | a |  |
| Traffic Vol, veh/h | 0 |  | 0 | 0 | 7 | 0 |
| Future Vol, veh/h | 0 | 1 | 0 | 0 | 7 | 0 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 70 | 70 | 70 | 70 | 70 | 70 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 1 | 0 | 0 | 10 | 0 |


| Major/Minor | Major1 | Minor2 |  |  |
| :---: | ---: | ---: | ---: | :--- |
| Conflicting Flow All | 0 | 0 | 1 | - |
| Stage 1 | - | - | 0 | - |
| Stage 2 | - | - | 1 | - |
| Critical Hdwy | 4.12 | - | 6.42 | - |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | 3.518 | - |
| Pot Cap-1 Maneuver | - | - | 1022 | 0 |
| $\quad$ Stage 1 | - | - | - | 0 |
| Stage 2 | - | - | 1022 | 0 |
| Platoon blocked, \% |  | - |  |  |
| Mov Cap-1 Maneuver | - | - | 1022 | - |
| Mov Cap-2 Maneuver | - | - | 1022 | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | 1022 | - |


| Approach | EB | SB |
| :--- | ---: | :--- |
| HCM Control Delay, s | 0 | 8.6 |
| HCM LOS | A |  |


| Minor Lane/Major Mvmt | EBL | EBT SBLn1 |
| :--- | :---: | ---: |
| Capacity (veh/h) | - | -1022 |
| HCM Lane V/C Ratio | - | -0.01 |
| HCM Control Delay (s) | 0 | - |
| HCM Lane LOS | A | -6 |
| HCM 95th \%tile Q(veh) | - | - |



HCM 6th Signalized Intersection Summary
1: Strauss Ave \& Pioneer Blvd
12/04/2022


Notes
User approved pedestrian interval to be less than phase max green.

| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.1 |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | 个 |  |  |  |  |  |
| T | " |  |  |  |  |  |
| Traffic Vol, veh/h | 1865 | 0 | 0 | 0 | 0 | 13 |
| Future Vol, veh/h | 1865 | 0 | 0 | 0 | 0 | 13 |
| Conflicting Peds, \#/hr | 0 | 1 | 0 | 0 | 0 | 1 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | - | 0 |
| Veh in Median Storage, \# | 0 | - | $1081-266176$ | 0 | - |  |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1963 | 0 | 0 | 0 | 0 | 14 |


| Major/Minor | Major1 | Minor1 |  |  |
| :---: | ---: | :---: | :---: | :---: |
| Conflicting Flow All | 0 | 0 | - | 984 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | - | - | - | 6.94 |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | - | - | - | 3.32 |
| Pot Cap-1 Maneuver | - | - | 0 | 248 |
| Stage 1 | - | - | 0 | - |
| Stage 2 | - | - | 0 | - |
| Platoon blocked, \% | - | - |  |  |
| Mov Cap-1 Maneuver | - | - | - | 248 |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
|  |  |  |  |  |


| Approach | EB | NB |
| :--- | ---: | ---: |
| HCM Control Delay, s | 0 | 20.4 |
| HCM LOS | C |  |


| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR |
| :--- | ---: | ---: | :---: |
| Capacity (veh/h) | 248 | - | - |
| HCM Lane V/C Ratio | 0.055 | - | - |
| HCM Control Delay (s) | 20.4 | - | - |
| HCM Lane LOS | C | - | - |
| HCM 95th \%tile Q(veh) | 0.2 | - | - |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.9 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | i |  |  |  |  | $\uparrow$ |
| Traffic Vol, veh/h | 1 | 0 | 0 | 0 | 8 | 1 |
| Future Vol, veh/h | 1 | 0 | 0 | 0 | 8 | 1 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 70 | 70 | 70 | 70 | 70 | 70 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1 | 0 | 0 | 0 | 11 | 1 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 7.9 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | $\mathbf{- 1}$ |  |  | 1 |  |
| Traffic Vol, veh/h | 0 | 1 | 0 | 0 | 12 | 0 |
| Future Vol, veh/h | 0 | 1 | 0 | 0 | 12 | 0 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 70 | 70 | 70 | 70 | 70 | 70 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 1 | 0 | 0 | 17 | 0 |


| Major/Minor | Major1 | Minor2 |  |  |
| :---: | ---: | ---: | ---: | :--- |
| Conflicting Flow All | 0 | 0 | 1 | - |
| Stage 1 | - | - | 0 | - |
| Stage 2 | - | - | 1 | - |
| Critical Hdwy | 4.12 | - | 6.42 | - |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | 3.518 | - |
| Pot Cap-1 Maneuver | - | - | 1022 | 0 |
| $\quad$ Stage 1 | - | - | - | 0 |
| Stage 2 | - | - | 1022 | 0 |
| Platoon blocked, \% |  | - |  |  |
| Mov Cap-1 Maneuver | - | - | 1022 | - |
| Mov Cap-2 Maneuver | - | - | 1022 | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | 1022 | - |


| Approach | EB | SB |
| :--- | ---: | :--- |
| HCM Control Delay, s | 0 | 8.6 |
| HCM LOS | A |  |


| Minor Lane/Major Mvmt | EBL | EBT SBLn1 |
| :--- | :---: | ---: |
| Capacity (veh/h) | - | -1022 |
| HCM Lane V/C Ratio | - | -0.017 |
| HCM Control Delay (s) | 0 | -8.6 |
| HCM Lane LOS | A | - |
| HCM 95th \%tile Q(veh) | - | - |




[^0]:    Scenario 2 Barlow Trail Vet Clinic 6:46 pm 11/25/2022 2024 Background PM Peak Hour

