APPENDIX H TRAFFIC IMPACT ANALYSIS

Traffic Impact Analysis – Proposed Modernization of the National Wildlife Health Center, Madison, Wisconsin

A. Introduction

This document describes the methodology and results of the traffic impact analysis performed for the proposed modernization of the National Wildlife Health Center (NWHC) located at 6006 Schroeder Road in Madison, Wisconsin. The 24-acre NWHC property is located north of Schroeder Road and bounded by the Beltline Highway (US-12/US-14) to the north, commercial and recreational developments to the west, and residential developments to the east and south (Figure 1). The surrounding roadways are under local, City of Madison jurisdiction.

The facility consists of two principal buildings and a shared parking lot. The Main Building is a 33,000 square-foot structure, and the second building, the Tight Isolation Building (TIB), is 28,000 square feet with both facilities accessed via a private driveway connected to Schroeder Road. The proposed NWHC facility will include a single building located within the existing property limits and once constructed and operational, the existing Main Building and TIB will be demolished. On the south end of the property, there is a restored prairie area that is available to the public for passive recreational use, which will remain. Access to the property and proposed NWHC will remain the same with all traffic access via the existing driveway off Schroeder Road.



Figure 1: National Wildlife Health Center Location



B. Existing Conditions

The NWHC property is located to the north of Schroeder Road, which is a minor arterial roadway providing one travel lane and one bike lane in each direction with the center lane providing a two-way left-turn median. Sidewalks are also present on both sides of the roadway. Schroeder Road is under the jurisdiction of the City of Madison and in 2018 carried an Average Annual Daily Traffic (AADT) volume of 6,200 vehicles west of the study area near Gammon Road (Wisconsin Department of Transportation). The 24-hour daily volume count performed in November 2022, showed approximately 11,000 vehicles per day on Schroeder Road at the facility entrance. The posted speed limit on Schroeder Road is 30 mph. The City of Madison's Metro Transit fixed bus Route #50 also runs east-west along Schroeder Road with stops in both directions near the NWHC entrance driveway.

Located approximately 1,000 feet west of the NWHC entrance is Forward Drive, a collector roadway under one-way stop control at its T-intersection with Schroeder Road. Forward Drive generally provides one lane in each direction with on-street parking and terminates in a cul-de-sac to the north just before reaching the Beltline Highway (US-12/US-14) right-of-way.

In 2022, Forward Drive carried approximately 2,500 vehicles per day. Since there are no speed limit signs posted on Forward Drive, the speed limit is assumed to be 20 mph per local ordinance. The roadway serves the Exact Sciences Laboratories, local NBC 15 WMTV Station, the West Madison Little League Fields, the Madison Ice Arena, and several small commercial developments.

Hathaway Drive creates a second T-intersection approximately 150 feet west of Forward Drive, which primarily serves the residential neighborhood located south of Schroeder Road. White Oaks Lane and Hampshire Place are also under stop control at their intersections with Schroeder Road and each serve a limited number of residential homes. Ellis Potter Court, located approximately 560 feet west of the NWHC entrance, provides access to several small commercial uses.

C. Existing Traffic Volumes

Existing traffic data was collected in order to understand the operation of roadways and intersections that serve the NWHC site. Traffic counts were conducted at the intersections of Schroeder Road with Forward Drive and at the existing NWHC entrance driveway on November 1, 2022 using traffic video cameras (Miovision Scout Units). 24-hour counts were performed at both locations which included multiple vehicle classifications as well as bicycle and pedestrian volumes. The morning peak hour volumes occurred from 7:30 AM to 8:30 AM while the evening peak hour occurred from 4:15 PM to 5:15 PM The existing peak hour traffic volumes are summarized in Exhibit 1.

D. Description of Existing Facility and Operation

The NWHC functions to advance wildlife health science for the benefit of animals, humans, and the environment. The 122 staff members assigned to the NWHC provide veterinary care and laboratory research services, including the study of disease on American wildlife within biosafety laboratories. The facility consists of two main buildings and a shared parking lot that offers approximately 100 paved spaces located immediately west of the buildings with employees, visitors and fleet vehicles having access to all spaces. The facility is typically in operation Monday through Friday. In addition, a prairie area is located on the south end of the property and is available for passive public recreational use.

Access to the site is provided by a single driveway to Schroeder Road. The gated driveway provides one lane in each direction and is under stop control at its intersection with Schroeder Road. The total number of vehicles entering and exiting the facility was captured by the driveway traffic counts and shows a limited volume of traffic entering and exiting the facility during each peak hour and throughout the day (Table 1).

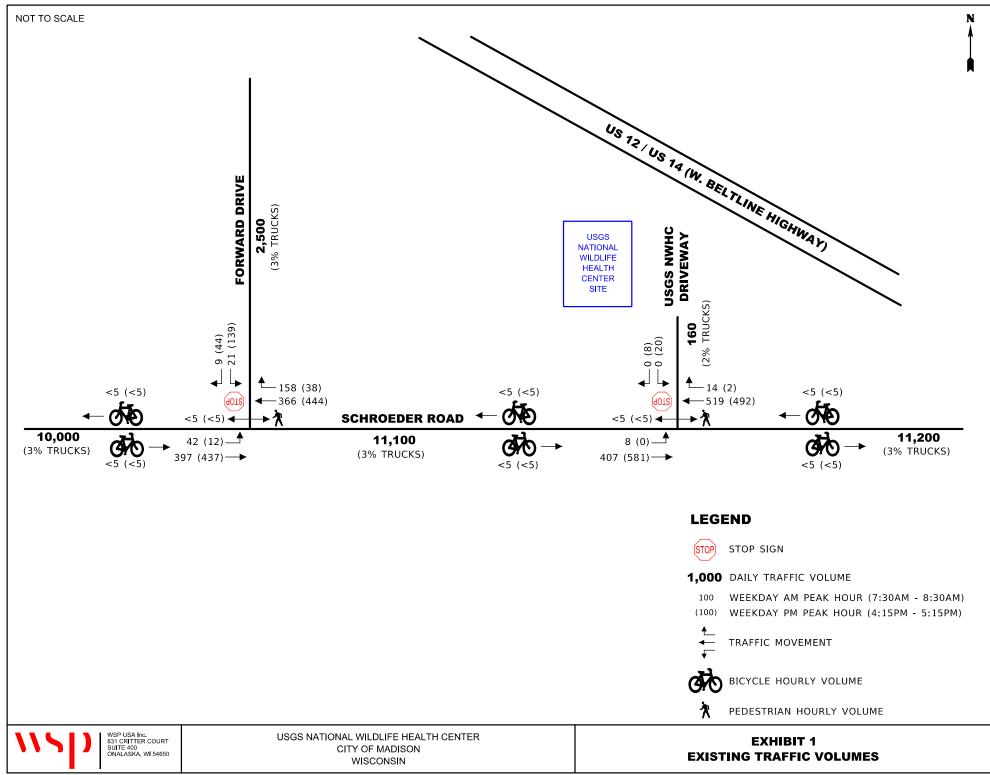




Table 1: Existing NWHC Facility Traffic Volumes

| Time Period | Entering Vehicles | Exiting Vehicles | Total Vehicles |
|----------------------------------|-------------------|------------------|----------------|
| AM Peak Hour (7:30 AM – 8:30 AM) | 22 (100%) | 0 (0%) | 22 |
| PM Peak Hour (4:15 PM – 5:15 PM) | 2 (7%) | 28 (93%) | 30 |
| Total Daily Traffic Volumes | 80 (50%) | 80 (50%) | 160 |

E. Proposed National Wildlife Health Center

The proposed NWHC, expected to be fully operational in 2028, is envisioned as a three-story structure with a basement containing administrative offices, various biosafety laboratories and vivarium, and support spaces. The facility will maintain its current workforce of 122 staff members with no plans to increase or decrease the size of the workforce. It should be noted that the modernized facility may accommodate a greater number of employees to work remotely. The proposed facility would:

- Meet NWHC's administrative, operational, health, and safety standards and requirements.
- Provide the spaces needed to conduct research into wildlife disease detection, control, and prevention and other programs that support the mission of the NWHC.
- Incorporate modern mechanical and containment systems to prevent staff and visitor exposure to biological and chemical agents, the escape of harmful pathogens, contamination of assay systems, reagents, and other materials, and cross-contamination between investigations.
- Redesign the internal service driveways, parking areas, and pedestrian walkways to accommodate visitors, students, government vehicles, and staff. The number of on-site parking spaces is not expected to increase significantly over the current number.
- Eliminate the use of incinerators for biological waste disposal to be replaced by bulk autoclaves, biodigesters, and other modern systems.
- Include a utility yard containing emergency generators.
- Include new energy-efficient lighting along internal walkways and parking areas and directional and other signage.
- Maintain the existing prairie area for public recreational use.

F. Projected Traffic Volumes and Analysis

Existing and projected conditions were analyzed using the Synchro 11 traffic analysis/simulation software during the morning (7:30 AM to 8:30 AM) and evening (4:15 PM to 5:15 PM) peak hours. Traffic operation is characterized according to the amount of control delay at each approach and quantified into a Level of Service (LOS). The LOS grades (A through F), which are defined in the Transportation Research Board's *Highway Capacity Manual*, quantify and categorize a driver's discomfort, frustration, fuel consumption, and travel times experienced as a result of intersection control and the resulting traffic queuing. The *HCM* Two-Way Stop Control methodology within the Synchro 11 software package was utilized to calculate and report the LOS and delay for the study area intersections.

There is no comparable land use provided within the *Institute of Transportation Engineer (ITE) Trip Generation Manual* to estimate or predict the number of trips generated to and from the NWHC.



Therefore, the best data available to estimate the site generated trips entering and exiting the facility is the actual traffic data collected at the driveway entrance. Trip Generation for the facility is summarized in Table 2.

Table 2: Projected Trip Generation - Modernized National Wildlife Health Center

| Weekday | AM | l Peak Hour Tr | ips | PM | Peak Hour Tr | ips |
|--------------------|----------|----------------|----------|----------|--------------|----------|
| Daily Trips | Entering | Exiting | Total AM | Entering | Exiting | Total PM |
| | Trips | Trips | Trips | Trips | Trips | Trips |
| 160 | 22 | 2 | 24 | 3 | 28 | 31 |
| (80 enter/80 exit) | (92%) | (8%) | (100%) | (10%) | (90%) | (100%) |

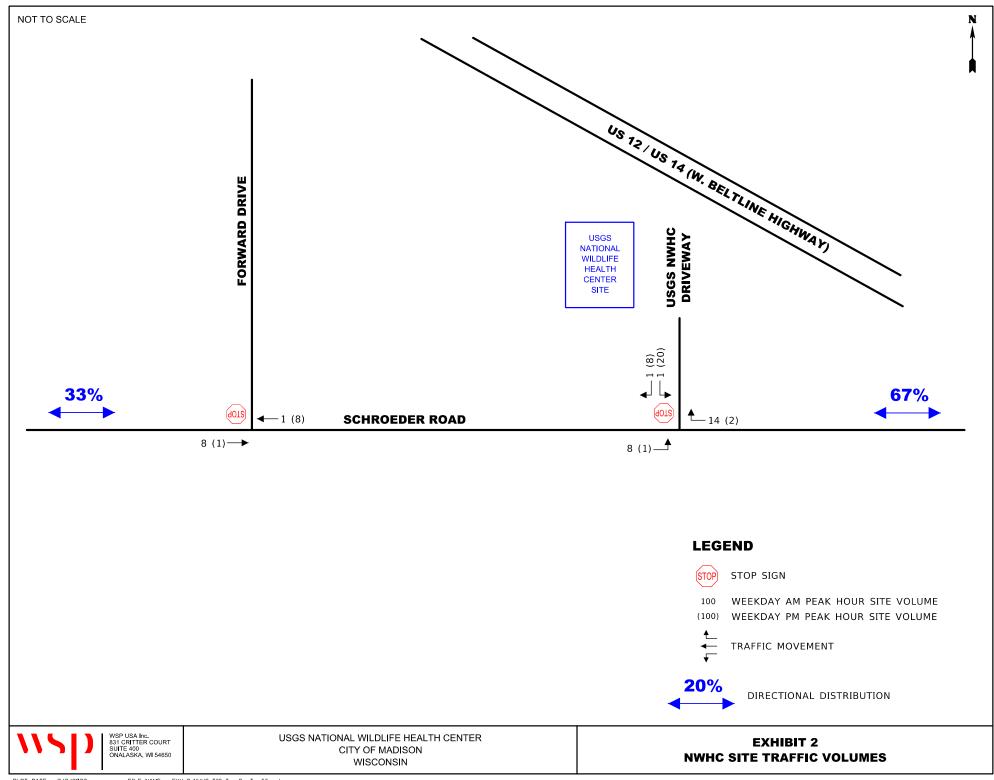
In conducting the analysis, the following conservative assumptions were applied:

- Several existing turning movements at the NWHC driveway recorded zero vehicles during the
 peak hours, therefore, one vehicle was added to each of these movements to understand how
 each movement will operate.
- While the number of NWHC employees working remotely on a daily basis may increase over time, no decrease in existing driveway volumes were made.
- While employees and visitors have access to other transportation modes including pedestrian, bicycle, and bus transit, no changes were made to the existing staff or visitor arrival/departure modes.
- The proposed facility will not affect the volume of recreational traffic from visitors to the prairie area.
- No carpooling was assumed in that each trip is equal to a single-occupancy vehicle.

As previously stated, the proposed facility is not expected to significantly alter internal operations of the NWHC. Furthermore, the number of staff members, visitors, and parking spaces will remain the same. Therefore, the trips generated by the facility and the directional distribution of vehicles entering and exiting the study area were not projected to change for the future conditions analysis. Based on the observed traffic data, 67 percent and 33 percent of traffic arrive and depart the facility from/to the east and west, respectively. The site generated traffic and directional distribution are shown in Exhibit 2.

To estimate the future roadway volumes following completion of the proposed NWHC, a background traffic growth factor was applied along Schroeder Road. This growth factor estimates a one percent increase in traffic per year until the facility is fully operational in 2028. Therefore, the mainline traffic volumes on Schroeder Road and Forward Drive were projected upwards to the year 2028. Exhibit 3 illustrates the projected volumes.

The capacity analysis results for both existing and projected conditions for the intersections within the study area are summarized in Table 3. Under existing conditions, all intersection movements operate with LOS C or better.



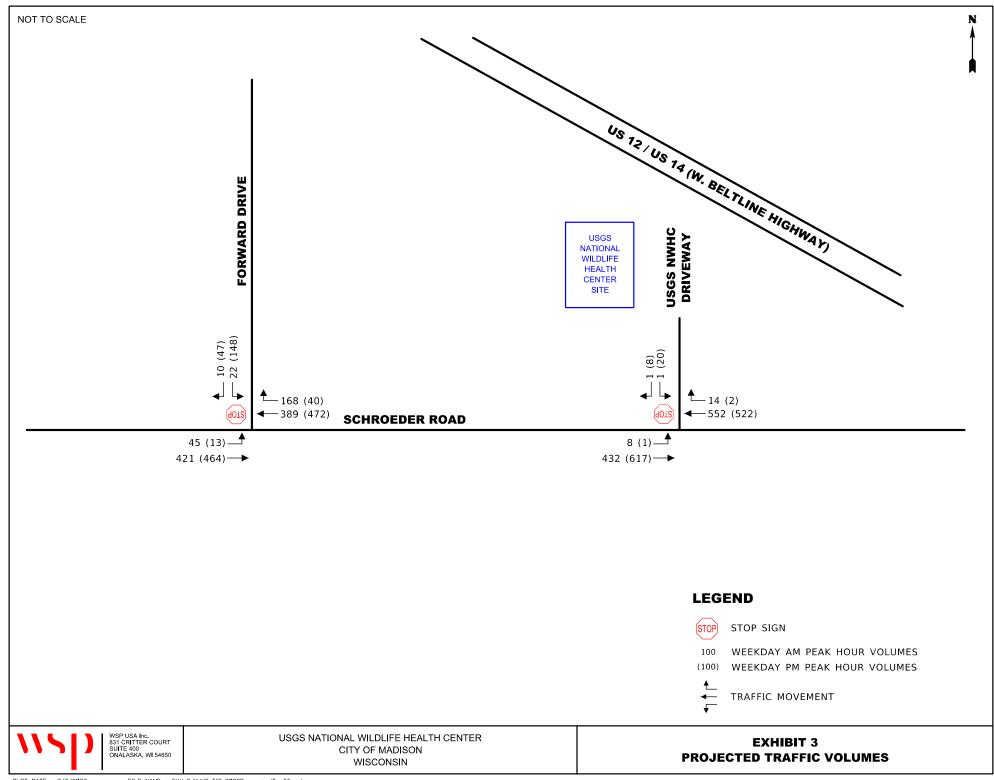




Table 3: Unsignalized Intersection Capacity Analysis Results (Existing and Projected)

| Unsignalized Intersection and Movement | AM Peak Hour (7:30 AM – 8:30 AM) | PM Peak Hour (4:15 PM – 5:15 PM) | | | | | | | | | | |
|---|---------------------------------------|-------------------------------------|--|--|--|--|--|--|--|--|--|--|
| Existi | ng Conditions¹ | | | | | | | | | | | |
| Schroeder Road with Forward Drive | | | | | | | | | | | | |
| Eastbound Left Turn | LOS A – 8.8 | LOS A – 8.6 | | | | | | | | | | |
| Southbound Approach | LOS B – 14.3 | LOS C - 22.8 | | | | | | | | | | |
| Schroeder Road with NWHC Driveway | | | | | | | | | | | | |
| Eastbound Left Turn | LOS A – 8.7 | N/A ² | | | | | | | | | | |
| Southbound Approach | N/A ² | LOS C – 15.4 | | | | | | | | | | |
| Proposed Conditions ¹ | | | | | | | | | | | | |
| Schroeder Road with Forward Drive | | | | | | | | | | | | |
| Eastbound Left Turn | LOS A – 9.0 | LOS A – 8.7 | | | | | | | | | | |
| Southbound Approach | LOS B – 14.8 | LOS D - 26.3 | | | | | | | | | | |
| Schroeder Road with NWHC Driveway | | | | | | | | | | | | |
| Eastbound Left Turn | LOS A – 8.8 | LOS A – 8.6 | | | | | | | | | | |
| Southbound Approach | LOS B – 13.6 | LOS C - 16.0 | | | | | | | | | | |
| Proposed Condi | tions with Improvement ^{1,3} | | | | | | | | | | | |
| Schroeder Road with NWHC Driveway | | | | | | | | | | | | |
| Eastbound Left Turn | LOS A – 8.8 | LOS A – 8.6 | | | | | | | | | | |
| Southbound Left Turn | LOS B – 14.9 | LOS C - 17.1 | | | | | | | | | | |
| Southbound Right Turn | LOS B – 12.3 | LOS B – 12.2 | | | | | | | | | | |
| Southbound Approach | LOS B – 13.6 | LOS C - 15.7 | | | | | | | | | | |
| ¹ Represents seconds of delay per vehicle. | | 1 | | | | | | | | | | |

¹Represents seconds of delay per vehicle.

Under projected conditions, the stop sign-controlled T-intersections of Schroeder Road with Forward Drive and the NWHC driveway will operation at acceptable LOS and delays. During the evening peak hour, the Forward Drive approach will lower from LOS C to a marginal LOS D. The increase in delay at this approach is due to the increase in background traffic anticipated from other surrounding land uses as no NWHC traffic will contribute to Forward Drive. The NWHC driveway will continue to operate at LOS C. Both intersections benefit from the two-way left-turn median. The median provides refuge for southbound left-turn traffic, which increases the number of allowable gaps in traffic along Schroeder Road. The two-way left turn lane also provides adequate storage for eastbound left turning vehicles waiting to perform their maneuver without impeding the eastbound through traffic movement.

To improve exit operations at the NWHC driveway, the addition of an exclusive southbound right-turn lane should be considered. The additional turn lane would provide no operational benefit in the morning as there is negligible traffic exiting the facility. During the evening peak hour, while there are no significant improvements in average vehicle delay for the southbound approach, operations for the exiting right turning traffic would be improved from LOS C to LOS B. This improvement would only require minimal widening and striping to improve the facility's egress. As proposed, the NWHC driveway would provide one inbound lane with an exclusive left turn lane and right turn lane under one-way stop control.

² No traffic volume was observed on the movement during the time frame indicated, therefore, an average vehicle delay cannot be estimated.

³ Proposed improvement consists of widening and striping the access driveway to provide one inbound lane, one outbound left-turn lane, and one outbound right-turn lane.



G. Conclusion and Recommendations

The proposed modernization of the NWHC will result in a new three-story building, which will replace the existing Main Building and TIB. The existing facility has 122 staff members and generates 24 trips during the morning peak hour, 31 trips during the evening peak hour, and a total of 160 trips (80 entering / 80 exiting) throughout the day. The proposed facility is not expected to significantly alter existing traffic operations or the number of employees and visitors per day. Therefore, traffic to the site is expected to remain the same.

Under projected conditions, the stop sign-controlled T-intersections of Schroeder Road with Forward Drive and the NWHC driveway will continue to operate at acceptable Levels of Service (LOS). These intersections benefit from the existing two-way left-turn medians by providing refuge for southbound left-turn traffic, which increasing the number of usable gaps in traffic along Schroeder Road. The two-way left turn lane also provides adequate storage for left turning queues. When compared to existing conditions, delays at both intersections increased as a result of the background traffic growth anticipated by the year 2028 when the new facility is expected to be activated.

An exclusive southbound right-turn lane should be considered to improve egress from the new facility. While this will provide minimal improvement to LOS/delay for left turning vehicles, it does benefit right turning vehicles during the PM peak hour with the LOS improving from C to B. This improvement would require minimal widening and some restriping. The proposed, modernized facility may also allow for increased numbers of staff to work remotely. This potential decrease in on-site staff could lead to less driveway traffic than currently exists, which would translate into a potential improvement in LOS and reduced delay.

H. References

Institute of Transportation Engineers. 2021. Trip Generation Manual, 11th Edition. Washington, DC. Publication No. IR-016L, 500/AGS/0921, ISBN-13: 978-1-7345078-7-4.

Transportation Research Board. 2016. *Highway Capacity Manual*, A Guide for Multimodal Mobility Analysis. Washington, D.C., ISBN 978-0-309-36997-8.

Attachments

Attachment 1 - Traffic Count Data Reports

Attachment 2 - Highway Capacity Reports - Existing/Projected Conditions AM / PM

Attachment 3 - NWHC Conceptual Site Plan / Rendering



Attachment 1 – Traffic Count Data Reports



Count Name: Forward Dr and Schroeder Rd Site Code: Start Date: 11/01/2022 Page No: 1

Turning Movement Data

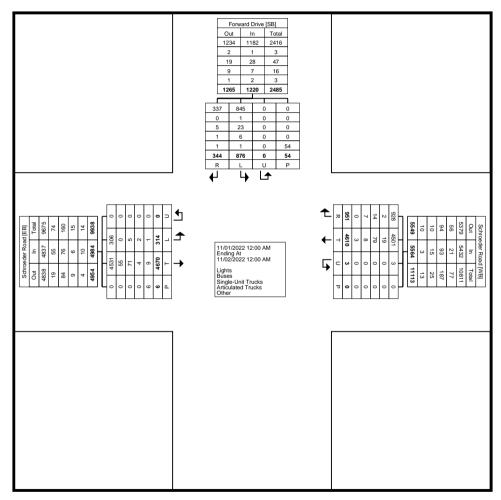
| | 1 | | Schroeder Road | I | | 1011 | | Schroeder Road | | | | | Forward Drive | | | |
|--------------|--------|------|----------------|------|------------|--------|------|----------------|------|------------|--------|------|---------------|------|------------|------------|
| | | | Westbound | | | | | Eastbound | | | | | Southbound | | | |
| Start Time | U-Turn | Thru | Right | Peds | App. Total | U-Turn | Left | Thru | Peds | App. Total | U-Turn | Left | Right | Peds | App. Total | Int. Total |
| 12:00 AM | 0 | 6 | 0 | 0 | 6 | 0 | 1 | 6 | 0 | 7 | 0 | 1 | 0 | 0 | 1 | 14 |
| 12:15 AM | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 4 | 0 | 4 | 0 | 2 | 1 | 0 | 3 | 12 |
| 12:30 AM | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 4 | 0 | 4 | 0 | 2 | 0 | 0 | 2 | 9 |
| 12:45 AM | 0 | 9 | 1 | 0 | 10 | 0 | 0 | 7 | 0 | 7 | 0 | 0 | 1 | 0 | 1 | 18 |
| Hourly Total | 0 | 23 | 1 | 0 | 24 | 0 | 1 | 21 | 0 | 22 | 0 | 5 | 2 | 0 | 7 | 53 |
| 1:00 AM | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 10 | 0 | 10 | 0 | 1 | 0 | 0 | 1 | 17 |
| 1:15 AM | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 9 |
| 1:30 AM | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 5 |
| 1:45 AM | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 11 |
| Hourly Total | 0 | 22 | 0 | 0 | 22 | 0 | 0 | 19 | 0 | 19 | 0 | 1 | 0 | 0 | 1 | 42 |
| 2:00 AM | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 3 | 0 | 1 | 0 | 0 | 1 | 7 |
| 2:15 AM | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 6 |
| 2:30 AM | 2 | 2 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| 2:45 AM | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 3 |
| Hourly Total | 2 | 8 | 1 | 0 | 11 | 0 | 1 | 7 | 0 | 8 | 0 | 1 | 1 | 0 | 2 | 21 |
| 3:00 AM | 0 | 5 | 2 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 3:15 AM | 0 | 3 | 3 | 0 | 6 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 9 |
| 3:30 AM | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 1 | 0 | 1 | 7 |
| 3:45 AM | 0 | 1 | 2 | 0 | 3 | 0 | 2 | 1 | 0 | 3 | 0 | 1 | 0 | 0 | 1 | 7 |
| Hourly Total | 0 | 11 | 8 | 0 | 19 | 0 | 2 | 7 | 0 | 9 | 0 | 1 | 1 | 0 | 2 | 30 |
| 4:00 AM | 0 | 4 | 0 | 0 | 4 | 0 | 1 | 6 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 11 |
| 4:15 AM | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 9 |
| 4:30 AM | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 4 | 0 | 4 | 0 | 3 | 0 | 0 | 3 | 10 |
| 4:45 AM | 0 | 4 | 2 | 0 | 6 | 0 | 0 | 8 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 14 |
| Hourly Total | 0 | 14 | 3 | 0 | 17 | 0 | 1 | 23 | 0 | 24 | 0 | 3 | 0 | 0 | 3 | 44 |
| 5:00 AM | 0 | . 8 | . 1 | 0 | 9 | 0 | 0 | 4 | 0 | 4 | 0 | 2 | 0 | 0 | 2 | 15 |
| 5:15 AM | 0 | 8 | 6 | 0 | 14 | 0 | 0 | 11 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 25 |
| 5:30 AM | 0 | 11 | 24 | 0 | 35 | 0 | 8 | 9 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 52 |
| 5:45 AM | 0 | 23 | 45 | 0 | 68 | 0 | 18 | 20 | 0 | 38 | 0 | 1 | 0 | 0 | 1 | 107 |
| Hourly Total | 0 | 50 | 76 | 0 | 126 | 0 | 26 | 44 | 0 | 70 | 0 | 3 | 0 | 0 | 3 | 199 |
| 6:00 AM | 0 | 21 | 10 | 0 | 31 | 0 | 1 | 16 | 0 | 17 | 0 | 2 | 0 | 0 | 2 | 50 |
| 6:15 AM | 0 | 10 | 9 | 0 | 19 | 0 | 0 | 18 | 0 | 18 | 0 | 6 | 1 | 0 | 7 | 44 |
| 6:30 AM | 0 | 26 | 7 | 0 | 33 | 0 | 1 | 32 | 0 | 33 | 0 | 19 | 4 | 0 | 23 | 89 |
| 6:45 AM | 0 | 39 | 25 | 0 | 64 | 0 | 1 | 32 | 0 | 33 | 0 | 4 | 1 | 0 | 5 | 102 |
| Hourly Total | 0 | 96 | 51 | 0 | 147 | 0 | 3 | 98 | 0 | 101 | 0 | 31 | 6 | 0 | 37 | 285 |
| 7:00 AM | 0 | 44 | 17 | 0 | 61 | 0 | 3 | 54 | 0 | 57 | 0 | 6 | 1 | 0 | 7 | 125 |

| 7:45 AM | | | | | | | | | | | | | | | | 477 |
|-------------------------|---|-----|-----------|---|------------|---|----|------|---|-----------|---|---------|----------|----|----------|------------|
| 7:15 AM | 0 | 87 | 23 | 0 | 110 | 0 | 4 | 63 | 0 | 67 | 0 | 0 | 0 | 1 | 0 | 177 |
| 7:30 AM | 0 | 79 | 37 | 0 | 116 | 0 | 10 | 117 | 0 | 127 | 0 | 8 | 1 | 0 | 9 | 252 |
| 7:45 AM | 0 | 115 | 43 | 0 | 158 | 0 | 11 | 101 | 0 | 112 | 0 | 3 | - 4 | 1 | 7 | 277 |
| Hourly Total | 0 | 325 | 120 | 0 | 445 | 0 | 28 | 335 | 0 | 363 | 0 | 17 5 | 6 | 2 | 23 | 831 |
| 8:00 AM | | 84 | 38 | | 122 | | 9 | 106 | | 115 | 0 | 5 | <u>0</u> | | . 5 | 242 |
| 8:15 AM | 0 | 92 | 40 | 0 | 132 | 0 | 12 | 74 | 0 | 86 | 0 | | | 0 | 9 | 227 |
| 8:30 AM | 0 | 81 | 23 | 0 | 104 | 0 | 8 | 90 | 0 | 98 | 0 | 7 | 3 | 0 | 5 10 | 207 |
| 8:45 AM | 0 | 337 | 30 | 0 | 110 468 | 0 | 40 | 334 | 0 | 75 374 | 0 | 21 | 8 | 4 | 29 | 195 871 |
| Hourly Total 9:00 AM | 0 | 59 | 131 15 | 0 | 74 | 0 | 8 | 72 | 0 | 80 | 0 | 4 | 2 | 2 | 6 | 160 |
| 9:15 AM | 0 | 78 | 14 | 0 | 92 | 0 | 3 | 58 | 0 | 61 | 0 | 4 | 2 | 2 | 6 | 159 |
| 9:30 AM | 0 | 65 | 8 | 0 | 73 | 0 | 2 | 68 | 1 | 70 | 0 | 4 | 4 | 0 | 8 | 151 |
| 9:45 AM | 0 | 54 | 18 | 0 | 72 | 0 | 1 | 55 | 0 | 56 | 0 | 9 | 2 | 0 | <u>0</u> | 139 |
| Hourly Total | 0 | 256 | 55 | 0 | 311 | 0 | 14 | 253 | 1 | 267 | 0 | 21 | 10 | 4 | 31 | 609 |
| 10:00 AM | 0 | 55 | 8 | 0 | 63 | 0 | 6 | 54 | 0 | 60 | 0 | 9 | 2 | 1 | 11 | 134 |
| 10:15 AM | 0 | 52 | 8 | 0 | 60 | 0 | 3 | 57 | 0 | 60 | 0 | 6 | 2 | 0 | 8 | 128 |
| 10:30 AM | 0 | 67 | 13 | 0 | 80 | 0 | 1 | 72 | 0 | 73 | 0 | 5 | 1 | 0 | 6 | 159 |
| 10:45 AM | 0 | 67 | 23 | 0 | 90 | 0 | 5 | 72 | 0 | 77 | 0 | 4 | 5 | 0 | 9 | 176 |
| Hourly Total | 0 | 241 | 52 | 0 | 293 | 0 | 15 | 255 | 0 | 270 | 0 | 24 | 10 | 1 | 34 | 597 |
| 11:00 AM | 0 | 87 | 16 | 0 | 103 | 0 | 3 | 70 | 0 | 73 | 0 | 6 | 3 | 0 | 9 | 185 |
| 11:15 AM | 0 | 53 | 12 | 0 | 65 | 0 | 1 | 77 | 0 | 78 | 0 | 9 | 4 | 1 | 13 | 156 |
| 11:30 AM | 0 | 78 | 11 | 0 | 89 | 0 | 4 | 66 | 0 | 70 | 0 | 12 | 8 | 1 | 20 | 179 |
| 11:45 AM | 0 | 74 | 18 | 0 | 92 | 0 | 4 | 82 | 0 | 86 | 0 | 7 | 2 | 0 | 9 | 187 |
| Hourly Total | 0 | 292 | 57 | 0 | 349 | 0 | 12 | 295 | 0 | 307 | 0 | 34 | 17 | 2 | 51 | 707 |
| 12:00 PM | 0 | 77 | 21 | 0 | 98 | 0 | 6 | 88 | 0 | 94 | 0 | 11 | 11 | 1 | 22 | 214 |
| 12:15 PM | 0 | 87 | 21 | 0 | 108 | 0 | 7 | 70 | 0 | 77 | 0 | 6 | 7 | 4 | 13 | 198 |
| 12:30 PM | 0 | 73 | 12 | 0 | 85 | 0 | 4 | 82 | 0 | 86 | 0 | 11 | 4 | 0 | 15 | 186 |
| 12:45 PM | 0 | 50 | 11 | 0 | 61 | 0 | 4 | 66 | 0 | 70 | 0 | 9 | 4 | 2 | 13 | 144 |
| Hourly Total | 0 | 287 | 65 | 0 | 352 | 0 | 21 | 306 | 0 | 327 | 0 | 37 | 26 | 7 | 63 | 742 |
| 1:00 PM | 0 | 63 | 4 | 0 | 67 | 0 | 5 | 61 | 0 | 66 | 0 | 12 | 3 | 0 | 15 | 148 |
| 1:15 PM | 0 | 69 | 6 | 0 | 75 | 0 | 4 | 63 | 0 | 67 | 0 | 11 | 2 | 1 | 13 | 155 |
| 1:30 PM | 0 | 75 | 12 | 0 | 87 | 0 | 7 | 71 | 0 | 78 | 0 | 14 | 2 | 0 | 16 | 181 |
| 1:45 PM | 0 | 65 | 10 | 0 | 75 | 0 | 2 | 78 | 1 | 80 | 0 | 8 | 0 | 0 | 8 | 163 |
| Hourly Total | 0 | 272 | 32 | 0 | 304 | 0 | 18 | 273 | 1 | 291 | 0 | 45 | 7 | 1 | 52 | 647 |
| 2:00 PM | 0 | 79 | 5 | 0 | 84 | 0 | 2 | 75 | 1 | 77 | 0 | 14 | 4 | 9 | 18 | 179 |
| 2:15 PM | 0 | 75 | 3 | 0 | 78 | 0 | 2 | 81 | 0 | 83 | 0 | 13 | 12 | 2 | 25 | 186 |
| 2:30 PM | 0 | 84 | 6 | 0 | 90 | 0 | 1 | 105 | 0 | 106 | 0 | 32 | 13 | 0 | 45 | 241 |
| 2:45 PM | 0 | 82 | 9 | 0 | 91 | 0 | 4 | 85 | 0 | 89 | 0 | 15 | 6 | 0 | 21 | 201 |
| Hourly Total | 0 | 320 | 23 | 0 | 343 | 0 | 9 | 346 | 1 | 355 | 0 | 74 | 35 | 11 | 109 | 807 |
| 3:00 PM | 0 | 105 | 4 | 0 | 109 | 0 | 1 | 90 | 0 | 91 | 0 | 16 | 7 | 1 | 23 | 223 |
| 3:15 PM | 0 | 90 | 7 | 0 | 97 | 0 | 2 | . 88 | 0 | 90 | 0 | 11 | 10 | 0 | 21 | 208 |
| 3:30 PM | 0 | 110 | 5 | 0 | 115 | 0 | 0 | 109 | 0 | 109 | 0 | 25 | 5 | 2 | 30 | 254 |
| 3:45 PM | 0 | 107 | 10 | 0 | 117 | 0 | 5 | 113 | 0 | 118 | 0 | 30 | 4 | 0 | 34 | 269 |
| Hourly Total | 0 | 412 | 26 | 0 | 438 | 0 | 8 | 400 | 0 | 408 | 0 | 82 | 26 | 3 | 108 | 954 |
| 4:00 PM | 0 | 108 | 14 | 0 | 122 | 0 | 6 | 118 | 0 | 124 | 0 | 40 | 10 | 1 | 50 | 296 |
| 4:15 PM | 0 | 102 | 6 | 0 | 108 | 0 | 1 | 102 | 0 | 103 | 0 | 36 | 9 | 1 | 45 | 256 |
| 4:30 PM | 0 | 109 | 9 | 0 | 118 | 0 | 0 | 113 | 0 | 113 | 0 | 46 | 16 | 0 | 62 | 293 |
| 4:45 PM | 0 | 102 | 9 | 0 | 111 | 0 | 4 | 92 | 2 | 96 | 0 | 26 | 11 | 0 | 37 | 244 |
| Hourly Total | 0 | 421 | 38 | 0 | 459 | 0 | 11 | 425 | 2 | 436 | 0 | 148 | 46 | 2 | 194 | 1089 |
| 5:00 PM | 0 | 131 | 14 | 0 | 145 | 0 | 7 | 132 | 0 | 139 | 0 | 31 | 8 | 3 | 39 | 323 |
| 5:15 PM | 0 | 105 | 14 | 0 | 119 | 0 | 5 | 87 | 0 | 92 | 0 | 15 | 9 | 1 | 24 | 235 |
| 5:30 PM | 0 | 106 | 7 | 0 | 113 | 0 | 4 | 77 | 0 | 81 | 0 | 26 | 8 | 6 | 34 | 228 |

| 5:45 PM | 0 | 66 | 14 | 0 | 80 | 0 | 1 | 92 | 0 | 93 | 0 | 12 | 8 | 4 | 20 | 193 |
|-------------------------|-------|----------|-----------|---|--------|-----|----------|------|-------|----------|-----|------|----------|------|--------|--|
| Hourly Total | 0 | 408 | 49 | 0 | 457 | 0 | 17 | 388 | 0 | 405 | 0 | 84 | 33 | 14 | 117 | 979 |
| | 0 | | - | 0 | _ | | - | • | - | • | 0 | • | | 2 | | |
| 6:00 PM | 0 | 78 87 | 9 | 0 | 87 | 0 | 13 10 | 93 | 0 | 106 | | 10 | 10 9 | 0 | 20 | 213 |
| 6:15 PM | | | 25 | 0 | 112 | 0 | - | - | 0 | 94 77 | 0 | 15 | | 0 | | |
| 6:30 PM | 0 | 60 | - 6 7 | | 66 | | 6 | 71 | | - | 0 | 10 | 10 | 0 | 20 | 163 |
| 6:45 PM | 0 | 54 | | 0 | 61 | 0 | 6 | 58 | 0 | 64 | 0 | 18 | 5 | 2 | 23 | 148 |
| Hourly Total | | 279 | 47 | | 326 | 0 | 35 | 306 | 0 | 341 | - | 53 | 34 | | 87 | 754 |
| 7:00 PM | 0 | 53 | 6 | 0 | 59 | 0 | 3 - | 70 | 0 | 73 | 0 | 12 | 3 | 0 | 15 | 147 |
| 7:15 PM | 0 | 44 | 19 | 0 | 63 | 0 | 7 | 57 | 0 | 64 | 0 | 4 | 3 | 0 | 7 | 134 |
| 7:30 PM 7:45 PM | 0 | 36 | 19 | 0 | 55 | 0 | 12 | 39 | 0 | 51 | 0 | 19 | 10 7 | 0 | 29 | 135 |
| | | 50 | 22 | | 72 | | 16 | 37 | 0 | 53 | 0 | 13 | | | 20 | 145 |
| Hourly Total | 0 | 183 | 66 | 0 | 249 | 0 | 38 | 203 | 0 | 241 | 0 | 48 | 23 | 0 | 71 | 561 |
| 8:00 PM | 0 | 41 | 5 | 0 | 46 | 0 | 0 | 31 | 0 | 31 | 0 | 6 | 7 | 0 | 13 | 90 |
| 8:15 PM | 0 | 42 | 9 | 0 | 51 | 0 | 5 | 37 | 0 | 42 | 0 | 6 | 3 | 0 | 9 | 102 |
| 8:30 PM | 0 | 32 | 12 | 0 | 44 | 0 | 4 | 29 | 0 | 33 | 0 | 5 | 0 | 0 | 5 | 82 |
| 8:45 PM | 0 | 21 | 6 | 0 | 27 | 0 | 2 | 31 | 0 | 33 | 0 | 11 | 3 | 0 | 14 | 74 |
| Hourly Total | 0 | 136 | 32 | 0 | 168 | 0 | . 11 | 128 | 0 | 139 | 0 | 28 | 13 | 0 | 41 | 348 |
| 9:00 PM | 0 | 22 | 3 | 0 | 25 | 0 | 1 | 27 | 0 | 28 | 0 | 13 | 2 | 0 | 15 | 68 |
| 9:15 PM | 1 | 33 | 0 | 0 | 34 | 0 | 0 | 26 | 0 | 26 | 0 | 16 | 3 | 0 | 19 | 79 |
| 9:30 PM | 0 | 22 | 1 | 0 | 23 | 0 | 0 | 30 | . 1 | 30 | 0 | 19 | 9 | 1 | 28 | 81 |
| 9:45 PM | 0 | 19 | 5 | 0 | 24 | 0 | 1 | 15 | 0 | 16 | 0 | 6 | 1 | 0 | 7 | 47 |
| Hourly Total | 1 | 96 | 9 | 0 | 106 | 0 | 2 | 98 | 1 | 100 | 0 | 54 | 15 | 1 | 69 | 275 |
| 10:00 PM | 0 | 27 | 3 | 0 | 30 | 0 | 0 | 22 | 0 | 22 | 0 | 12 | 4 | 0 | 16 | 68 |
| 10:15 PM | 0 | 19 | 0 | 0 | 19 | 0 | 1 | 20 | 0 | 21 | 0 | 17 | 3 | 0 | 20 | 60 |
| 10:30 PM | 0 | 9 | 1 | 0 | 10 | 0 | 0 | 16 | 0 | 16 | 0 | 14 | 5 | 0 | 19 | 45 |
| 10:45 PM | 0 | 13 | 1 | 0 | 14 | 0 | 0 | 13 | 0 | 13 | 0 | 5 | 0 | 0 | 5 | 32 |
| Hourly Total | 0 | 68 | 5 | 0 | 73 | 0 | 1 | 71 | 0 | 72 | 0 | 48 | 12 | 0 | 60 | 205 |
| 11:00 PM | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 9 | 0 | 9 | 0 | 11 | 12 | 0 | 23 | 44 |
| 11:15 PM | 0 | 15 | . 1 | 0 | 16 | 0 | 0 | 9 | 0 | 9 | 0 | 1 | 0 | 0 | 1 | 26 |
| 11:30 PM | 0 | 18 | 2 | 0 | 20 | 0 | 0 | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 29 |
| 11:45 PM | 0 | 8 | 1 | 0 | 9 | 0 | 0 | 8 | 0 | 8 | 0 | 1 | 1 | 0 | 2 | 19 |
| Hourly Total | 0 | 53 | 4 | 0 | 57 | 0 | 0 | 35 | 0 | 35 | 0 | 13 | 13 | 0 | 26 | 118 |
| Grand Total | 3 | 4610 | 951 | 0 | 5564 | 0 | 314 | 4670 | 6 | 4984 | 0 | 876 | 344 | 54 | 1220 | 11768 |
| Approach % | 0.1 | 82.9 | 17.1 | - | - 47.0 | 0.0 | 6.3 | 93.7 | | - 40.4 | 0.0 | 71.8 | 28.2 | - | - 40.4 | - |
| Total % | 0.0 | 39.2 | 8.1 | - | 47.3 | 0.0 | 2.7 | 39.7 | - | 42.4 | 0.0 | 7.4 | 2.9 | - | 10.4 | - |
| Lights | 3 | 4501 | 928 | - | 5432 | 0 | 306 | 4531 | - | 4837 | 0 | 845 | 337 | - | 1182 | 11451 |
| % Lights | 100.0 | 97.6 | 97.6 | - | 97.6 | - | 97.5 | 97.0 | - | 97.1 | - | 96.5 | 98.0 | - | 96.9 | 97.3 |
| Buses % Buses | 0.0 | 0.4 | 0.2 | - | 21 | 0 | 0.0 | 55 | - | 55 | 0 | 0.1 | 0.0 | - | . 1 | 0.7 |
| | - | | | - | 0.4 | - | - | 1.2 | - | 1.1 | - | - | | - | 0.1 | |
| Single-Unit Trucks | 0 | 79 | 14 | - | 93 | 0 | 5 | 71 | - | 76 | 0 | 23 | 5 | - | 28 | 197 |
| % Single-Unit Trucks | 0.0 | 1.7 | 1.5 | - | 1.7 | - | 1.6 | 1.5 | | 1.5 | - | 2.6 | 1.5 | - | 2.3 | 1.7 |
| Articulated Trucks | 0 | 8 | 7 | - | 15 | 0 | 2 | 4 | - | 6 | 0 | 6 | 1 | - | 7 | 28 |
| % Articulated Trucks | 0.0 | 0.2 | 0.7 | - | 0.3 | - | 0.6 | 0.1 | - | 0.1 | - | 0.7 | 0.3 | - | 0.6 | 0.2 |
| Bicycles on Road | 0 | 3 | 0 | - | 3 | 0 | 1 | 9 | | 10 | 0 | 1 | 1 | - | 2 | 15 |
| % Bicycles on Road | 0.0 | 0.1 | 0.0 | - | 0.1 | - | 0.3 | 0.2 | - | 0.2 | - | 0.1 | 0.3 | - | 0.2 | 0.1 |
| Bicycles on Crosswalk | - | - | - | 0 | - | - | | - | 0 | - | - | | - | 5 | - | - |
| % Bicycles on Crosswalk | - | - | | - | - | - | | - | 0.0 | - | - | | - | 9.3 | - | - |
| Pedestrians | - | - | · · · · · | 0 | | - | - | - | 6 | | - | - | <u> </u> | 49 | - | - |
| % Pedestrians | - | - | - | - | | - | | - | 100.0 | - | - | | - | 90.7 | | |



Count Name: Forward Dr and Schroeder Rd Site Code: Start Date: 11/01/2022 Page No: 4



Turning Movement Data Plot



Count Name: Forward Dr and Schroeder Rd Site Code: Start Date: 11/01/2022 Page No: 5

Turning Mayoment Dook Hour Date (7:20 AM)

| | | | | | l urnıng | g Moven | nent Pea | ak Hour I | Data (7 | :30 AM) | | | | | | |
|-------------------------|--------|-------|----------------|------|------------|---------|----------|----------------|---------|------------|--------|-------|---------------|-------|------------|------------|
| | | | Schroeder Road | I | | | | Schroeder Road | | | | | Forward Drive | | | [|
| Start Time | | | Westbound | | | | | Eastbound | | | | | Southbound | | | [|
| Start Time | U-Turn | Thru | Right | Peds | App. Total | U-Turn | Left | Thru | Peds | App. Total | U-Turn | Left | Right | Peds | App. Total | Int. Total |
| 7:30 AM | 0 | 79 | 37 | 0 | 116 | 0 | 10 | 117 | 0 | 127 | 0 | 8 | 1 | 0 | 9 | 252 |
| 7:45 AM | 0 | 115 | 43 | 0 | 158 | 0 | 11 | 101 | 0 | 112 | 0 | 3 | 4 | 1 | 7 | 277 |
| 8:00 AM | 0 | 84 | 38 | 0 | 122 | 0 | 9 | 106 | 0 | 115 | 0 | 5 | 0 | 1 | 5 | 242 |
| 8:15 AM | 0 | 92 | 40 | 0 | 132 | 0 | 12 | 74 | 0 | 86 | 0 | 5 | 4 | 0 | 9 | 227 |
| Total | 0 | 370 | 158 | 0 | 528 | 0 | 42 | 398 | 0 | 440 | 0 | 21 | 9 | 2 | 30 | 998 |
| Approach % | 0.0 | 70.1 | 29.9 | - | - | 0.0 | 9.5 | 90.5 | - | - | 0.0 | 70.0 | 30.0 | - | - | - |
| Total % | 0.0 | 37.1 | 15.8 | - | 52.9 | 0.0 | 4.2 | 39.9 | - | 44.1 | 0.0 | 2.1 | 0.9 | - | 3.0 | - |
| PHF | 0.000 | 0.804 | 0.919 | - | 0.835 | 0.000 | 0.875 | 0.850 | - | 0.866 | 0.000 | 0.656 | 0.563 | - | 0.833 | 0.901 |
| Lights | 0 | 356 | 157 | - | 513 | 0 | 41 | 387 | - | 428 | 0 | 21 | 8 | - | 29 | 970 |
| % Lights | - | 96.2 | 99.4 | - | 97.2 | - | 97.6 | 97.2 | - | 97.3 | - | 100.0 | 88.9 | - | 96.7 | 97.2 |
| Buses | 0 | 2 | 0 | - | 2 | 0 | 0 | 4 | - | 4 | 0 | 0 | 0 | - | 0 | 6 |
| % Buses | - | 0.5 | 0.0 | - | 0.4 | - | 0.0 | 1.0 | - | 0.9 | ı | 0.0 | 0.0 | - | 0.0 | 0.6 |
| Single-Unit Trucks | 0 | 8 | 1 | - | 9 | 0 | 0 | 6 | - | 6 | 0 | 0 | 1 | - | 1 | 16 |
| % Single-Unit Trucks | - | 2.2 | 0.6 | - | 1.7 | - | 0.0 | 1.5 | - | 1.4 | 1 | 0.0 | 11.1 | - | 3.3 | 1.6 |
| Articulated Trucks | 0 | 3 | 0 | - | 3 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | - | 0 | 3 |
| % Articulated Trucks | - | 0.8 | 0.0 | - | 0.6 | - | 0.0 | 0.0 | - | 0.0 | - | 0.0 | 0.0 | - | 0.0 | 0.3 |
| Bicycles on Road | 0 | 1 | 0 | - | 1 | 0 | 1 | 1 | - | 2 | 0 | 0 | 0 | - | 0 | 3 |
| % Bicycles on Road | - | 0.3 | 0.0 | - | 0.2 | - | 2.4 | 0.3 | - | 0.5 | - | 0.0 | 0.0 | - | 0.0 | 0.3 |
| Bicycles on Crosswalk | - | - | - | 0 | - | - | - | - | 0 | - | - | - | - | 0 | - | - |
| % Bicycles on Crosswalk | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.0 | - | - |
| Pedestrians | - | - | - | 0 | - | - | - | - | 0 | - | - | - | - | 2 | - | - |
| % Pedestrians | _ | - | - | _ | - | _ | _ | - | _ | - | _ | - | _ | 100.0 | - | _ |



Count Name: Forward Dr and Schroeder Rd Site Code: Start Date: 11/01/2022 Page No: 6

| | | Forward Drive [SB] | |
|--|--|--|---|
| Schroeder Road [E8] Out in Total 364 428 772 2 4 6 9 6 15 9 6 15 779 440 819 | 0 387 41 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Peak Hour Data 11/01/2022 7:30 AM Ending At 11/01/2022 8:30 AM Lights Buses Single-Unit Trucks Articulated Trucks Other | Schroeder Road (WE) Out In Total 408 513 921 4 2 6 6 9 115 0 3 3 3 1 1 1 2 419 528 947 157 356 0 0 0 0 2 0 0 0 1 8 0 0 0 1 8 370 0 0 1 8 370 0 0 1 9 9 |

Turning Movement Peak Hour Data Plot (7:30 AM)



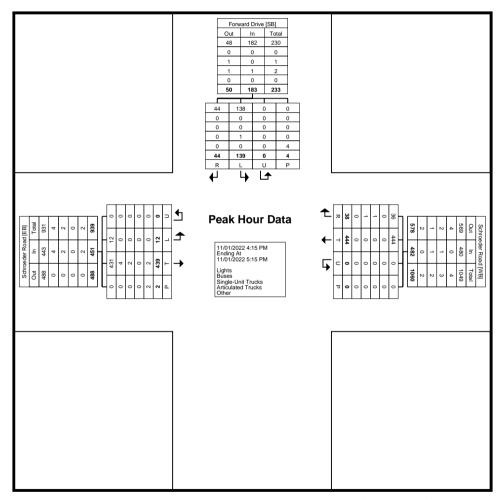
Count Name: Forward Dr and Schroeder Rd Site Code: Start Date: 11/01/2022 Page No: 7

Turning Movement Peak Hour Data (4:15 PM)

| | | | | | I urnıng | g Moven | nent Pea | ak Hour | Data (4: | :15 PM) | | | | | | |
|-------------------------|--------|-------|----------------|------|------------|---------|----------|----------------|----------|------------|--------|-------|---------------|------|------------|------------|
| | | | Schroeder Road | I | | | | Schroeder Road | 1 | • | | | Forward Drive | | | 1 |
| Start Time | | | Westbound | | | | | Eastbound | | | | | Southbound | | | 1 |
| Start Time | U-Turn | Thru | Right | Peds | App. Total | U-Turn | Left | Thru | Peds | App. Total | U-Turn | Left | Right | Peds | App. Total | Int. Total |
| 4:15 PM | 0 | 102 | 6 | 0 | 108 | 0 | 1 | 102 | 0 | 103 | 0 | 36 | 9 | 1 | 45 | 256 |
| 4:30 PM | 0 | 109 | 9 | 0 | 118 | 0 | 0 | 113 | 0 | 113 | 0 | 46 | 16 | 0 | 62 | 293 |
| 4:45 PM | 0 | 102 | 9 | 0 | 111 | 0 | 4 | 92 | 2 | 96 | 0 | 26 | 11 | 0 | 37 | 244 |
| 5:00 PM | 0 | 131 | 14 | 0 | 145 | 0 | 7 | 132 | 0 | 139 | 0 | 31 | 8 | 3 | 39 | 323 |
| Total | 0 | 444 | 38 | 0 | 482 | 0 | 12 | 439 | 2 | 451 | 0 | 139 | 44 | 4 | 183 | 1116 |
| Approach % | 0.0 | 92.1 | 7.9 | - | - | 0.0 | 2.7 | 97.3 | - | - | 0.0 | 76.0 | 24.0 | - | - | - |
| Total % | 0.0 | 39.8 | 3.4 | - | 43.2 | 0.0 | 1.1 | 39.3 | - | 40.4 | 0.0 | 12.5 | 3.9 | - | 16.4 | - |
| PHF | 0.000 | 0.847 | 0.679 | - | 0.831 | 0.000 | 0.429 | 0.831 | - | 0.811 | 0.000 | 0.755 | 0.688 | - | 0.738 | 0.864 |
| Lights | 0 | 444 | 36 | - | 480 | 0 | 12 | 431 | - | 443 | 0 | 138 | 44 | - | 182 | 1105 |
| % Lights | - | 100.0 | 94.7 | - | 99.6 | 1 | 100.0 | 98.2 | - | 98.2 | - | 99.3 | 100.0 | - | 99.5 | 99.0 |
| Buses | 0 | 0 | 0 | - | 0 | 0 | 0 | 4 | - | 4 | 0 | 0 | 0 | - | 0 | 4 |
| % Buses | - | 0.0 | 0.0 | - | 0.0 | - | 0.0 | 0.9 | - | 0.9 | - | 0.0 | 0.0 | - | 0.0 | 0.4 |
| Single-Unit Trucks | 0 | 0 | 1 | - | 1 | 0 | 0 | 2 | - | 2 | 0 | 0 | 0 | - | 0 | 3 |
| % Single-Unit Trucks | - | 0.0 | 2.6 | - | 0.2 | - | 0.0 | 0.5 | - | 0.4 | - | 0.0 | 0.0 | - | 0.0 | 0.3 |
| Articulated Trucks | 0 | 0 | 1 | - | 1 | 0 | 0 | 0 | - | 0 | 0 | 1 | 0 | - | 1 | 2 |
| % Articulated Trucks | - | 0.0 | 2.6 | - | 0.2 | 1 | 0.0 | 0.0 | - | 0.0 | - | 0.7 | 0.0 | - | 0.5 | 0.2 |
| Bicycles on Road | 0 | 0 | 0 | - | 0 | 0 | 0 | 2 | - | 2 | 0 | 0 | 0 | - | 0 | 2 |
| % Bicycles on Road | - | 0.0 | 0.0 | - | 0.0 | - | 0.0 | 0.5 | - | 0.4 | - | 0.0 | 0.0 | - | 0.0 | 0.2 |
| Bicycles on Crosswalk | - | - | - | 0 | - | - | - | - | 0 | - | - | - | - | 1 | _ | - |
| % Bicycles on Crosswalk | - | - | <u>-</u> | - | - | - | - | - | 0.0 | - | - | - | - | 25.0 | - | - |
| Pedestrians | - | - | - | 0 | - | - | - | - | 2 | - | - | - | - | 3 | - | - |
| % Pedestrians | _ | - | - | - | - | _ | - | - | 100.0 | - | - | _ | - | 75.0 | - | - |



Count Name: Forward Dr and Schroeder Rd Site Code: Start Date: 11/01/2022 Page No: 8



Turning Movement Peak Hour Data Plot (4:15 PM)



Count Name: Schroeder Dr and NWHC Ex Driveway Site Code: Start Date: 11/01/2022 Page No: 1

Turning Movement Data

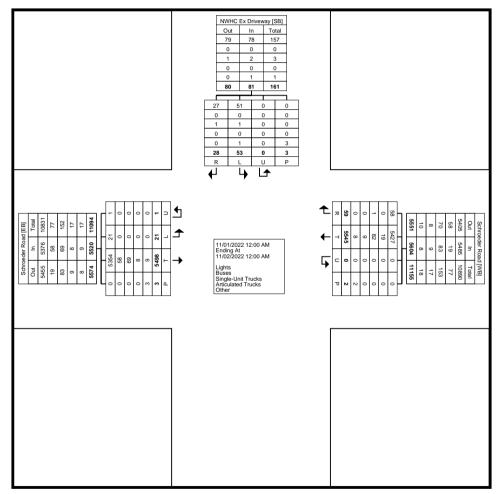
| | | | Schroeder Road | | | | | Schroeder Road | - ata | | | ٨ | WHC Ex Drivew | ay | | |
|--------------|--------|------|----------------|------|------------|--------|------|----------------|-------|------------|--------|------|---------------|------|------------|------------|
| Start Time | | | Westbound | | | | | Eastbound | | | | | Southbound | | | |
| | U-Turn | Thru | Right | Peds | App. Total | U-Turn | Left | Thru | Peds | App. Total | U-Turn | Left | Right | Peds | App. Total | Int. Total |
| 12:00 AM | 0 | 6 | . 0 | 0 | 6 | 0 | 0 | . 8 | 0 | . 8 | 0 | 0 | 0 | . 0 | 0 | 14 |
| 12:15 AM | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 10 |
| 12:30 AM | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 9 |
| 12:45 AM | 0 | 11 | . 0 | 0 | 11 | 0 | 0 | | 0 | . 8 | 0 | 0 | 0 | 0 | 0 | 19 |
| Hourly Total | 0 | 25 | 0 | 0 | 25 | 0 | 0 | 27 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 52 |
| 1:00 AM | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 17 |
| 1:15 AM | 0 | 8 | . 0 | 0 | . 8 | 0 | 0 | . 6 | 0 | . 6 | 0 | 0 | . 0 | 0 | . 0 | 14 |
| 1:30 AM | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 6 |
| 1:45 AM | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 10 |
| Hourly Total | 0 | 25 | . 0 | 0 | 25 | 0 | 0 | 22 | 0 | 22 | 0 | 0 | 0 | 0 | . 0 | 47 |
| 2:00 AM | 0 | 4 | 0 | 0 | . 4 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 7 |
| 2:15 AM | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 9 |
| 2:30 AM | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2:45 AM | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 4 |
| Hourly Total | 0 | 14 | 0 | 0 | 14 | 0 | 0 | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 23 |
| 3:00 AM | 0 | 7 | 0 | 0 | 7 | 0 | 0 | . 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 8 |
| 3:15 AM | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 9 |
| 3:30 AM | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 6 |
| 3:45 AM | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| Hourly Total | 0 | 20 | 0 | 0 | 20 | 0 | 0 | 8 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 28 |
| 4:00 AM | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 8 |
| 4:15 AM | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 9 |
| 4:30 AM | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 10 |
| 4:45 AM | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 17 |
| Hourly Total | 0 | 19 | 0 | 0 | 19 | 0 | 0 | 25 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 44 |
| 5:00 AM | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 17 |
| 5:15 AM | 0 | 16 | 1 | 0 | 17 | 0 | 0 | 14 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 31 |
| 5:30 AM | 0 | 39 | 0 | 0 | 39 | 0 | 0 | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 48 |
| 5:45 AM | 0 | 64 | 0 | 0 | 64 | 0 | 0 | 19 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 83 |
| Hourly Total | 0 | 129 | 1 | 0 | 130 | 0 | 0 | 49 | 0 | 49 | 0 | 0 | 0 | 0 | 0 | 179 |
| 6:00 AM | 0 | 30 | 0 | 0 | 30 | 0 | 0 | 17 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 47 |
| 6:15 AM | 0 | 21 | 0 | 0 | 21 | 0 | 0 | 25 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 46 |
| 6:30 AM | 0 | 36 | 0 | 0 | 36 | 0 | 0 | 49 | 0 | 49 | 0 | 0 | 0 | 0 | 0 | 85 |
| 6:45 AM | 0 | 64 | 0 | 0 | 64 | 0 | 1 | 37 | 0 | 38 | 0 | 0 | 0 | 0 | 0 | 102 |
| Hourly Total | 0 | 151 | 0 | 0 | 151 | 0 | 1 | 128 | 0 | 129 | 0 | 0 | 0 | 0 | 0 | 280 |
| 7:00 AM | 0 | 62 | 1 | 0 | 63 | 1 | 0 | 55 | 0 | 56 | 0 | 0 | 0 | 0 | 0 | 119 |

| | | | | | | _ | | | | | _ | | | | | |
|--------------------|---|------------|----|-----|------------|----------|---|------------|---|------------|---|----------|--------|----------|---------------|------------|
| 7:15 AM | 0 | 116 | 2 | 0 | 118 | 0 | 2 | 58 | 0 | 60 | 0 | 0 | 0 | 0 | 0 | 178 |
| 7:30 AM | 0 | 111 | 6 | . 0 | 117 | 0 | 1 | 128 | 0 | 129 | 0 | 0 | 0 | 0 | 0 | 246 |
| 7:45 AM | 0 | 162 | 0 | 0 | 162 | 0 | 2 | 99 | 0 | 101 | 0 | 0 | 0 | 0 | 0 | 263 |
| Hourly Total | 0 | 451 | 9 | 0 | 460 | 1 | 5 | 340 | 0 | 346 | 0 | 0 | 0 | 0 | 0 | 806 |
| 8:00 AM | 0 | 115 | 6 | . 0 | 121 | 0 | 3 | 109 | 0 | 112 | 0 | 0 | 0 | 0 | 0 | 233 |
| 8:15 AM | 0 | 133 | 2 | 0 | 135 | 0 | 2 | 72 | 0 | 74 | 0 | 0 | 0 | 0 | 0 | 209 |
| 8:30 AM | 0 | 97 | 4 | 0 | 101 | 0 | 2 | 81 | 0 | 83 | 0 | 0 | 0 | 0 | 0 | 184 |
| 8:45 AM | 0 | 100 | 3 | . 0 | 103 | 0 | 0 | 73 | 0 | 73 | 0 | 0 | 0 | 0 | 0 | 176 |
| Hourly Total | 0 | 445 | 15 | 0 | 460 | 0 | 7 | 335 | 0 | 342 | 0 | 0 | 0 | 0 | 0 | 802 |
| 9:00 AM | 0 | 74 | 0 | 0 | 74 | 0 | 1 | 70 | 0 | 71 | 0 | 0 | 0 | 0 | 0 | 145 |
| 9:15 AM | 0 | 92 | 1 | . 0 | 93 | 0 | 0 | 67 | 0 | 67 | 0 | 0 | 0 | 0 | 0 | 160 |
| 9:30 AM | 0 | 72 | 0 | 0 | 72 | 0 | 0 | 68 | 0 | 68 | 0 | 0 | 0 | 0 | 0 | 140 |
| 9:45 AM | 0 | 72 | 5 | 0 | 77 | 0 | 1 | 63 | 0 | 64 | 0 | 0 | 1 | 0 | 1 | 142 |
| Hourly Total | 0 | 310 | 6 | 0 | 316 | 0 | 2 | 268 | 0 | 270 | 0 | 0 | 1 | 0 | 1 | 587 |
| 10:00 AM | 0 | 59 | 1 | 0 | 60 | 0 | 1 | 64 | 0 | 65 | 0 | 0 | 1 | 0 | 1 | 126 |
| 10:15 AM | 0 | 68 | 1 | 0 | 69 | 0 | 0 | 61 | 0 | 61 | 0 | 0 | 0 | 0 | 0 | 130 |
| 10:30 AM | 0 | 82 | 1 | 0 | 83 | 0 | 1 | 78 | 0 | 79 | 0 | 0 | 0 | 0 | 0 | 162 |
| 10:45 AM | 0 | 90 | 0 | 0 | 90 | 0 | 0 | 66 | 0 | 66 | 0 | 1 | 0 | 0 | 1 | 157 |
| Hourly Total | 0 | 299 | 3 | 0 | 302 | 0 | 2 | 269 | 0 | 271 | 0 | 1 - | 1 | 0 | 2 | 575 |
| 11:00 AM | 0 | 91 | 1 | 0 | 92 | 0 | 0 | 75 | 0 | 75 | 0 | 0 | 0 | 0 | 0 | 167 |
| 11:15 AM | 0 | 76 | 0 | 0 | 76 | 0 | 0 | 80 | 0 | 80 | 0 | 1 | 0 | 0 | 1 | 157 |
| 11:30 AM | 0 | 84 | 1 | 0 | 85 | 0 | 0 | 81 | 0 | 81 | 0 | 1 | 0 | 0 | 1 | 167 |
| 11:45 AM | 0 | 81 | 4 | 0 | 85 | 0 | 0 | 88 | 0 | 88 | 0 | 2 | 4 | 0 | 6 | 179 |
| Hourly Total | 0 | 332 | 6 | 0 | 338 | 0 | 0 | 324 | 0 | 324 | 0 | 4 | 4 | 0 | 8 | 670 |
| 12:00 PM | 0 | 95 | 0 | 0 | 95 | 0 | 0 | 92 | 0 | 92 | 0 | 0 | 2 | 0 | 2 | 189 |
| 12:15 PM | 0 | 106 | 1 | 0 | 107 | 0 | 0 | 73 | 0 | 73 | 0 | 1 | 0 | 0 | 1 | 181 |
| 12:30 PM | 0 | 84 | 2 | 0 | 86 | 0 | 1 | 88 | 0 | 89 | 0 | 0 | 1 | 0 | 11 | 176 |
| 12:45 PM | 0 | 59 | 6 | 0 | 65 | 0 | 2 | 84 | 0 | 86 | 0 | 3 | 4 | 0 | 4 | 155 |
| Hourly Total | 0 | 344 | 9 | | 353 | 0 | 3 | 337 | 0 | 340 | 0 | 4 | | 0 | 8 | 701 |
| 1:00 PM | 0 | 73 | 2 | 0 | 75 | 0 | 1 | 73 | 0 | 74 | 0 | 0 | 0 | 1 | 0 | 149 |
| 1:15 PM | 0 | 76 | 0 | 0 | 76 | 0 | 0 | 75 85 | 0 | 75 85 | 0 | 0 1 | 0 | 0 | <u> </u> | 151 |
| 1:30 PM | - | 83 77 | 0 | 0 | 83 | - | 0 | 83 | 0 | - | 0 | | 0 | 0 | | 169 |
| 1:45 PM | 0 | | 2 | 0 | 77 | 0 | 1 | | 0 | 83 | 0 | 2 | 0 | 1 | 1 | 161 |
| Hourly Total | 0 | 309 78 | 0 | 0 | 311 78 | 0 | 0 | 316 81 | 0 | 317 81 | 0 | 1 | 0 | 0 | <u>2</u> 1 | 630 160 |
| 2:00 PM 2:15 PM | 0 | 89 | 3 | 1 | 92 | 0 | 0 | 98 | 0 | 98 | 0 | 1 | 1 | 1 | 2 | 192 |
| 2:30 PM | 0 | 95 | 0 | 0 | 95 | 0 | 0 | 142 | 0 | 142 | 0 | 2 | 0 | 0 | 2 | 239 |
| 2:45 PM | 0 | 89 | 0 | 0 | 89 | 0 | 0 | 107 | 0 | 107 | 0 | 1 | 0 | 0 | 1 | 197 |
| Hourly Total | 0 | 351 | 3 | 1 | 354 | 0 | 0 | 428 | 0 | 428 | 0 | 5 | 1 | 1 | 6 | 788 |
| 3:00 PM | 0 | 112 | 0 | 0 | 112 | 0 | 0 | 100 | 0 | 100 | 0 | 1 | 0 | 0 | 1 | 213 |
| 3:15 PM | 0 | 96 | 0 | 0 | 96 | 0 | 0 | 106 | 1 | 106 | 0 | 1 | 2 | 1 | 3 | 205 |
| 3:30 PM | 0 | 111 | 1 | 1 | 112 | 0 | 0 | 130 | 1 | 130 | 0 | 3 | 0 | 0 | 3 | 245 |
| 3:45 PM | 0 | 109 | 0 | 0 | 109 | 0 | 0 | 137 | 0 | 137 | 0 | <u>3</u> | 2 | 0 | 3 | 249 |
| Hourly Total | 0 | 428 | 1 | 1 | 429 | 0 | 0 | 473 | 2 | 473 | 0 | 6 | 4 | 1 | 10 | 912 |
| | | - | | | | | | | | | | | | <u> </u> | | |
| 4:00 PM 4:15 PM | 0 | 127 110 | 0 | 0 | 127 110 | 0 | 0 | 158 143 | 0 | 158 143 | 0 | 3 | 1 | 0 | 8 4 | 293 257 |
| 4:30 PM | 0 | 111 | 2 | 0 | 113 | 0 | 0 | 164 | 0 | 164 | 0 | <u>3</u> | 3 | 0 | 4 | 281 |
| 4:30 PM 4:45 PM | 0 | 116 | 0 | 0 | 116 | 0 | 0 | 124 | 0 | 124 | 0 | 11 | 3 1 | 0 | 12 | 252 |
| Hourly Total | 0 | 464 | 2 | 0 | 466 | 0 | 0 | 589 | 0 | 589 | 0 | 20 | 8 | 0 | 28 | 1083 |
| 5:00 PM | 0 | 155 | 0 | 0 | 155 | 0 | 0 | 151 | 0 | 151 | 0 | 5 | 3 | 0 | 8 | 314 |
| 5:00 PM 5:15 PM | 0 | 126 | 0 | 0 | 126 | 0 | 0 | 114 | 0 | 114 | 0 | 2 | 1 | 0 | 3 | 243 |
| | 0 | | | • | • | | | - | | - | | | 0 | | | |
| 5:30 PM | | 108 | 0 | . 0 | 108 | 0 | 0 | 101 | 0 | 101 | 0 | 0 | U | 0 | 0 | 209 |

| 5:45 PM | 0 | 77 | 0 | 0 | 77 | 0 | 0 | 103 | 0 | 103 | 0 | 1 | 0 | 0 | 1 | 181 |
|-------------------------|-----|-------------|-------|-------|-------------|-------|----------|-------|-------|--------|-----|------|----------|-------|-------|-----------------|
| Hourly Total | 0 | 466 | 0 | 0 | 466 | 0 | 0 | 469 | 0 | 469 | 0 | 8 | 4 | 0 | 12 | 947 |
| 6:00 PM | 0 | 91 | 0 | 0 | 91 | 0 | 0 | 98 | 0 | 98 | 0 | 2 | 0 | 0 | 2 | 191 |
| 6:15 PM | 0 | 109 | 0 | 0 | 109 | 0 | 0 | 96 | 0 | 96 | 0 | 0 | 0 | 0 | 0 | 205 |
| 6:30 PM | 0 | 62 | 0 | 0 | 62 | 0 | 0 | 83 | 0 | 83 | 0 | 0 | 0 | 0 | 0 | 145 |
| 6:45 PM | 0 | 65 | 0 | 0 | 65 | 0 | 0 | 69 | 0 | 69 | 0 | 0 | 0 | 0 | 0 | 134 |
| Hourly Total | 0 | 327 | 0 | 0 | 327 | 0 | 0 | 346 | 0 | 346 | 0 | 2 | 0 | 0 | 2 | 675 |
| 7:00 PM | 0 | 50 | 1 | 0 | 51 | 0 | 0 | 87 | 0 | 87 | 0 | 0 | 0 | 0 | 0 | 138 |
| 7:15 PM | 0 | 59 | 0 | 0 | 59 | 0 | 0 | 56 | 0 | 56 | 0 | 0 | 0 | 0 | 0 | 115 |
| 7:30 PM | 0 | 56 | 0 | 0 | 56 | 0 | 0 | 56 | 0 | 56 | 0 | 0 | 0 | 0 | 0 | 112 |
| 7:45 PM | 0 | 74 | 0 | 0 | 74 | 0 | 0 | 59 | 0 | 59 | 0 | 0 | 0 | 0 | 0 | 133 |
| Hourly Total | 0 | 239 | 1 | 0 | 240 | 0 | 0 | 258 | 0 | 258 | 0 | 0 | 0 | 0 | 0 | 498 |
| 8:00 PM | 0 | 51 | 1 | 0 | 52 | 0 | 0 | 32 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 84 |
| 8:15 PM | 0 | 46 | 0 | 0 | 46 | 0 | 0 | 45 | 0 | 45 | 0 | 0 | 1 | 0 | 1 | 92 |
| 8:30 PM | 0 | 48 | 0 | 0 | 48 | 0 | 0 | 33 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 81 |
| 8:45 PM | 0 | 29 | 0 | 0 | 29 | 0 | 0 | 45 | 0 | 45 | 0 | 0 | 0 | 0 | 0 | 74 |
| Hourly Total | 0 | 174 | 1 | 0 | 175 | 0 | 0 | 155 | 0 | 155 | 0 | 0 | 1 | 0 | 1 | 331 |
| 9:00 PM | 0 | 24 | 0 | 0 | 24 | 0 | 0 | 40 | 0 | 40 | 0 | 0 | 0 | 0 | 0 | 64 |
| 9:15 PM | 0 | 30 | 0 | 0 | 30 | 0 | 0 | 37 | 0 | 37 | 0 | 0 | 0 | 0 | 0 | 67 |
| 9:30 PM | 0 | 18 | 0 | 0 | 18 | 0 | 0 | 47 | 0 | 47 | 0 | 1 | 0 | 0 | 1 | 66 |
| 9:45 PM | 0 | 25 | 0 | 0 | 25 | 0 | 0 | 23 | . 0 | 23 | 0 | 0 | 0 | 0 | 0 | 48 |
| Hourly Total | 0 | 97 | 0 | 0 | 97 | 0 | 0 | 147 | 0 | 147 | 0 | 1 | 0 | 0 | 1 | 245 |
| 10:00 PM | 0 | 28 | 0 | 0 | 28 | 0 | 0 | 36 | 1 | 36 | 0 | 0 | 0 | 0 | 0 | 64 |
| 10:15 PM | 0 | 18 | 0 | . 0 | 18 | 0 | 0 | 39 | 0 | 39 | 0 | 0 | 0 | 0 | 0 | 57 |
| 10:30 PM | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 31 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 43 |
| 10:45 PM | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 16 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 29 |
| Hourly Total | 0 | 71 | 0 | 0 | 71 | 0 | 0 | 122 | 1 | 122 | 0 | 0 | 0 | 0 | 0 | 193 |
| 11:00 PM | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 24 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 37 |
| 11:15 PM | 0 | 14 | 0 | 0 | 14 | 0 | 0 | 11 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 25 |
| 11:30 PM | 0 | 19 | 0 | 0 | 19 | 0 | 0 | 9 | . 0 | 9 | 0 | 0 | 0 | 0 | 0 | 28 |
| 11:45 PM | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 19 |
| Hourly Total | 0 | 55 | 0 | 0 | 55 | 0 | 0 | 54 | 0 | 54 | 0 | 0 | 0 | 0 | 0 | 109 |
| Grand Total | 0 | 5545 | 59 | 2 | 5604 | 1 | 21 | 5498 | 3 | 5520 | 0 | 53 | 28 | 3 | 81 | 11205 |
| Approach % | 0.0 | 98.9 | 1.1 | - | - 3004 | 0.0 | 0.4 | 99.6 | - | - 3320 | 0.0 | 65.4 | 34.6 | - | - | - 11203 |
| Total % | 0.0 | 49.5 | 0.5 | | 50.0 | 0.0 | 0.4 | 49.1 | | 49.3 | 0.0 | 0.5 | 0.2 | | 0.7 | - |
| Lights | 0.0 | 5427 | 58 | - | 5485 | 1 | 21 | 5354 | | 5376 | 0.0 | 51 | 27 | | 78 | 10939 |
| % Lights | - | 97.9 | 98.3 | | 97.9 | 100.0 | 100.0 | 97.4 | | 97.4 | - | 96.2 | 96.4 | | 96.3 | 97.6 |
| Buses | 0 | 19 | 0 | | 19 | 0 | 0 | 58 | | 58 | 0 | 0 | 0 | | 0 | 77 |
| % Buses | - | 0.3 | 0.0 | - | 0.3 | 0.0 | 0.0 | 1.1 | | 1.1 | - | 0.0 | 0.0 | | 0.0 | 0.7 |
| Single-Unit Trucks | 0 | 82 | 1 | | 83 | 0.0 | 0.0 | 69 | | 69 | 0 | 1 | 1 | | 2 | 154 |
| % Single-Unit Trucks | - | 1.5 | 1.7 | - | 1.5 | 0.0 | 0.0 | 1.3 | | 1.3 | - | 1.9 | 3.6 | - | 2.5 | 1.4 |
| Articulated Trucks | 0 | 9 | 0 | | 9 | 0.0 | 0.0 | 8 | | 8 | 0 | 0 | 0 | | 0 | 17 |
| % Articulated Trucks | - | 0.2 | 0.0 | - | 0.2 | 0.0 | 0.0 | 0.1 | | 0.1 | - | 0.0 | 0.0 | - | 0.0 | 0.2 |
| Bicycles on Road | 0 | 8 | 0.0 | | 8 | 0.0 | 0.0 | 9 | | 9 | 0 | 1 | 0.0 | | 1 | 18 |
| % Bicycles on Road | - | 0.1 | 0.0 | - | 0.1 | 0.0 | 0.0 | 0.2 | | 0.2 | - | 1.9 | 0.0 | | 1.2 | 0.2 |
| Bicycles on Crosswalk | - | - 0.1 | - 0.0 | 0 | - 0.1 | - 0.0 | - 0.0 | - 0.2 | 0 | | - | 1.9 | - 0.0 | 0 | - 1.2 | 0.2 |
| % Bicycles on Crosswalk | - | | | 0.0 | | - | <u> </u> | | 0.0 | | - | | | 0.0 | | |
| Pedestrians | | | | 2 | | - | | | 3 | | | | | 3 | | |
| % Pedestrians | - | | | 100.0 | | | | | 100.0 | | | | | 100.0 | | - |
| 76 redesilians | | <u> </u> | | 100.0 | | | | | 100.0 | | | | <u> </u> | 100.0 | | |



Count Name: Schroeder Dr and NWHC Ex Driveway Site Code: Start Date: 11/01/2022 Page No: 4



Turning Movement Data Plot



Count Name: Schroeder Dr and NWHC Ex Driveway Site Code: Start Date: 11/01/2022 Page No: 5

Turning Movement Peak Hour Data (7:30 AM)

| | | | | | Turning | g Moven | nent Pea | ak Hour I | Data (7 | :30 AM) | | | | | | |
|-------------------------|--------|-------|----------------|------|------------|---------|----------|----------------|---------|------------|--------|-------|---------------|------|------------|------------|
| | | | Schroeder Road | | | | | Schroeder Road | | _ | | N | WHC Ex Drivew | ay | | 1 |
| Start Time | | | Westbound | | | | | Eastbound | | | | | Southbound | | | 1 |
| Start Time | U-Turn | Thru | Right | Peds | App. Total | U-Turn | Left | Thru | Peds | App. Total | U-Turn | Left | Right | Peds | App. Total | Int. Total |
| 7:30 AM | 0 | 111 | 6 | 0 | 117 | 0 | 1 | 128 | 0 | 129 | 0 | 0 | 0 | 0 | 0 | 246 |
| 7:45 AM | 0 | 162 | 0 | 0 | 162 | 0 | 2 | 99 | 0 | 101 | 0 | 0 | 0 | 0 | 0 | 263 |
| 8:00 AM | 0 | 115 | 6 | 0 | 121 | 0 | 3 | 109 | 0 | 112 | 0 | 0 | 0 | 0 | 0 | 233 |
| 8:15 AM | 0 | 133 | 2 | 0 | 135 | 0 | 2 | 72 | 0 | 74 | 0 | 0 | 0 | 0 | 0 | 209 |
| Total | 0 | 521 | 14 | 0 | 535 | 0 | 8 | 408 | 0 | 416 | 0 | 0 | 0 | 0 | 0 | 951 |
| Approach % | 0.0 | 97.4 | 2.6 | - | - | 0.0 | 1.9 | 98.1 | - | - | 0.0 | 0.0 | 0.0 | - | - | - |
| Total % | 0.0 | 54.8 | 1.5 | - | 56.3 | 0.0 | 0.8 | 42.9 | - | 43.7 | 0.0 | 0.0 | 0.0 | - | 0.0 | - |
| PHF | 0.000 | 0.804 | 0.583 | - | 0.826 | 0.000 | 0.667 | 0.797 | - | 0.806 | 0.000 | 0.000 | 0.000 | - | 0.000 | 0.904 |
| Lights | 0 | 508 | 14 | - | 522 | 0 | 8 | 398 | - | 406 | 0 | 0 | 0 | - | 0 | 928 |
| % Lights | - | 97.5 | 100.0 | - | 97.6 | - | 100.0 | 97.5 | - | 97.6 | - | - | - | - | - | 97.6 |
| Buses | 0 | 1 | 0 | - | 1 | 0 | 0 | 4 | - | 4 | 0 | 0 | 0 | - | 0 | 5 |
| % Buses | - | 0.2 | 0.0 | - | 0.2 | - | 0.0 | 1.0 | - | 1.0 | - | - | - | - | - | 0.5 |
| Single-Unit Trucks | 0 | 9 | 0 | - | 9 | 0 | 0 | 5 | - | 5 | 0 | 0 | 0 | - | 0 | 14 |
| % Single-Unit Trucks | - | 1.7 | 0.0 | - | 1.7 | - | 0.0 | 1.2 | - | 1.2 | - | - | - | - | - | 1.5 |
| Articulated Trucks | 0 | 1 | 0 | - | 1 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | - | 0 | 1 |
| % Articulated Trucks | - | 0.2 | 0.0 | - | 0.2 | - | 0.0 | 0.0 | - | 0.0 | - | _ | - | - | - | 0.1 |
| Bicycles on Road | 0 | 2 | 0 | - | 2 | 0 | 0 | 1 | - | 1 | 0 | 0 | 0 | - | 0 | 3 |
| % Bicycles on Road | - | 0.4 | 0.0 | - | 0.4 | - | 0.0 | 0.2 | - | 0.2 | - | - | - | - | - | 0.3 |
| Bicycles on Crosswalk | - | - | - | 0 | - | - | - | - | 0 | - | - | - | - | 0 | - | - |
| % Bicycles on Crosswalk | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Pedestrians | - | - | - | 0 | - | - | - | | 0 | - | - | - | - | 0 | - | - |
| % Pedestrians | _ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |



Count Name: Schroeder Dr and NWHC Ex Driveway Site Code: Start Date: 11/01/2022 Page No: 6

| | NWHC Ex Driveway [SB] Out In Total 22 0 22 0 0 0 0 0 0 0 0 0 0 0 0 0 22 0 22 1 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 R L U P | |
|---|---|---|
| Schronder Road [E8] Out In Total | Peak Hour Data 11/01/2022 7:30 AM Ending At 11/01/2022 8:30 AM Lights Buses Single Unit Trucks Articulated Trucks Other | Schroeder Road (WB) Out In Total 388 522 920 4 1 5 5 9 15 5 9 15 1 1 1 1 2 3 408 535 943 1 1 5 6 0 0 0 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 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 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 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 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 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 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 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 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 |

Turning Movement Peak Hour Data Plot (7:30 AM)



Count Name: Schroeder Dr and NWHC Ex Driveway Site Code: Start Date: 11/01/2022 Page No: 7

Turning Movement Peak Hour Data (4:15 PM)

| | | | | | Turning | g Moven | nent Pea | ak Hour I | Data (4 | :15 PM) | | | | | | |
|-------------------------|--------|-------|----------------|------|------------|---------|----------|----------------|---------|------------|--------|-------|-----------------|------|------------|------------|
| | | | Schroeder Road | | | | | Schroeder Road | | - | | N | IWHC Ex Drivewa | ay | | 1 |
| Start Time | | | Westbound | | | | | Eastbound | | | | | Southbound | | | 1 |
| Start Time | U-Turn | Thru | Right | Peds | App. Total | U-Turn | Left | Thru | Peds | App. Total | U-Turn | Left | Right | Peds | App. Total | Int. Total |
| 4:15 PM | 0 | 110 | 0 | 0 | 110 | 0 | 0 | 143 | 0 | 143 | 0 | 3 | 1 | 0 | 4 | 257 |
| 4:30 PM | 0 | 111 | 2 | 0 | 113 | 0 | 0 | 164 | 0 | 164 | 0 | 1 | 3 | 0 | 4 | 281 |
| 4:45 PM | 0 | 116 | 0 | 0 | 116 | 0 | 0 | 124 | 0 | 124 | 0 | 11 | 1 | 0 | 12 | 252 |
| 5:00 PM | 0 | 155 | 0 | 0 | 155 | 0 | 0 | 151 | 0 | 151 | 0 | 5 | 3 | 0 | 8 | 314 |
| Total | 0 | 492 | 2 | 0 | 494 | 0 | 0 | 582 | 0 | 582 | 0 | 20 | 8 | 0 | 28 | 1104 |
| Approach % | 0.0 | 99.6 | 0.4 | - | - | 0.0 | 0.0 | 100.0 | - | - | 0.0 | 71.4 | 28.6 | - | - | - |
| Total % | 0.0 | 44.6 | 0.2 | - | 44.7 | 0.0 | 0.0 | 52.7 | - | 52.7 | 0.0 | 1.8 | 0.7 | - | 2.5 | - |
| PHF | 0.000 | 0.794 | 0.250 | - | 0.797 | 0.000 | 0.000 | 0.887 | - | 0.887 | 0.000 | 0.455 | 0.667 | - | 0.583 | 0.879 |
| Lights | 0 | 485 | 2 | - | 487 | 0 | 0 | 571 | - | 571 | 0 | 20 | 8 | - | 28 | 1086 |
| % Lights | - | 98.6 | 100.0 | - | 98.6 | - | - | 98.1 | - | 98.1 | - | 100.0 | 100.0 | - | 100.0 | 98.4 |
| Buses | 0 | 0 | 0 | - | 0 | 0 | 0 | 5 | - | 5 | 0 | 0 | 0 | - | 0 | 5 |
| % Buses | - | 0.0 | 0.0 | - | 0.0 | ı | - | 0.9 | - | 0.9 | - | 0.0 | 0.0 | - | 0.0 | 0.5 |
| Single-Unit Trucks | 0 | 7 | 0 | - | 7 | 0 | 0 | 4 | - | 4 | 0 | 0 | 0 | - | 0 | 11 |
| % Single-Unit Trucks | - | 1.4 | 0.0 | - | 1.4 | - | - | 0.7 | - | 0.7 | - | 0.0 | 0.0 | - | 0.0 | 1.0 |
| Articulated Trucks | 0 | 0 | 0 | - | 0 | 0 | 0 | 1 | - | 1 | 0 | 0 | 0 | - | 0 | 1 |
| % Articulated Trucks | - | 0.0 | 0.0 | - | 0.0 | - | _ | 0.2 | - | 0.2 | - | 0.0 | 0.0 | - | 0.0 | 0.1 |
| Bicycles on Road | 0 | 0 | 0 | - | 0 | 0 | 0 | 1 | - | 1 | 0 | 0 | 0 | - | 0 | 1 |
| % Bicycles on Road | - | 0.0 | 0.0 | - | 0.0 | - | - | 0.2 | - | 0.2 | - | 0.0 | 0.0 | - | 0.0 | 0.1 |
| Bicycles on Crosswalk | - | - | - | 0 | - | - | - | - | 0 | - | - | - | - | 0 | - | - |
| % Bicycles on Crosswalk | - | - | - | - | - | - | - | - | - | <u>-</u> | - | - | - | - | <u>-</u> | - |
| Pedestrians | - | - | - | 0 | - | - | - | - | 0 | - | - | - | - | 0 | - | - |
| % Pedestrians | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |



Count Name: Schroeder Dr and NWHC Ex Driveway Site Code: Start Date: 11/01/2022 Page No: 8

| | NWHC Ex Driveway [SB] Out In Total 2 28 30 0 0 0 0 0 0 0 0 0 0 0 0 0 2 28 30 0 0 0 0 2 28 30 0 0 0 0 8 20 0 0 8 20 0 0 R L U P | | | | | | | | | | |
|--|--|---|-----|-----|-------|--------------|---|-------|---|--------------|---------------------|
| Schroeder Road [EB] Out in Total 499 571 1064 490 671 1064 0 5 5 5 0 6 6 6 6 1 1 1 1 0 0 1 1 0 | Peak Hour Data 11/01/2022 4:15 PM Ending At 11/01/2022 5:15 PM Lights Buses Single-Unit Trucks Other | £ | T U | 0 0 | 485 0 | 602 494 1096 | 0 | 1 0 1 | 0 | 591 487 1078 | Schroeder Road [WB] |

Turning Movement Peak Hour Data Plot (4:15 PM)



Attachment 2 – Highway Capacity Reports– Existing/Projected Conditions AM/PM

| Intersection | | | | | | |
|-----------------------------|-----------|-------------|-----------|-------|--------|-------|
| Int Delay, s/veh | 0.8 | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | T T | <u></u> | ₩ <u></u> | וטייי | ₩. | אומט |
| Traffic Vol, veh/h | 42 | 3 97 | 366 | 158 | 21 | 9 |
| Future Vol, veh/h | 42 | 397 | 366 | 158 | 21 | 9 |
| Conflicting Peds, #/hr | 2 | 0 | 0 | 2 | 0 | 0 |
| | Free | Free | Free | Free | Stop | Stop |
| Sign Control RT Channelized | riee - | None | | | | None |
| | | | - | | - | |
| Storage Length | 50 | - | - | - | 0 | - |
| Veh in Median Storage | | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 |
| Heavy Vehicles, % | 2 | 3 | 3 | 1 | 0 | 11 |
| Mvmt Flow | 47 | 441 | 407 | 176 | 23 | 10 |
| | | | | | | |
| Major/Minor | Major1 | N | Major2 | 1 | Minor2 | |
| Conflicting Flow All | 585 | 0 | - | 0 | 1032 | 497 |
| Stage 1 | - | - | _ | - | 497 | 431 |
| Stage 2 | | _ | _ | _ | 535 | _ |
| Critical Hdwy | 4.12 | | - | | 6.4 | 6.31 |
| Critical Hdwy Stg 1 | 4.12 | - | - | - | 5.4 | 0.51 |
| Critical Hdwy Stg 1 | _ | - | - | - | 5.4 | |
| , , | | - | - | | | |
| Follow-up Hdwy | 2.218 | - | - | - | | 3.399 |
| Pot Cap-1 Maneuver | 990 | - | - | - | 260 | 555 |
| Stage 1 | - | - | - | - | 615 | |
| Stage 2 | - | - | - | - | 591 | - |
| Platoon blocked, % | 000 | - | - | - | 0.40 | |
| Mov Cap-1 Maneuver | 988 | - | - | - | 246 | 554 |
| Mov Cap-2 Maneuver | - | - | - | - | 380 | - |
| Stage 1 | - | - | - | - | 584 | - |
| Stage 2 | - | - | - | - | 590 | - |
| | | | | | | |
| Approach | EB | | WB | | SB | |
| HCM Control Delay, s | 0.8 | | 0 | | 14.3 | |
| HCM LOS | 0.0 | | U | | | |
| I IOIVI LOG | | | | | В | |
| | | | | | | |
| Minor Lane/Major Mvm | nt | EBL | EBT | WBT | WBR : | SBLn1 |
| Capacity (veh/h) | | 988 | - | - | - | 420 |
| HCM Lane V/C Ratio | | 0.047 | - | - | - | 0.079 |
| HCM Control Delay (s) | | 8.8 | - | - | - | |
| HCM Lane LOS | | Α | - | - | - | В |
| HCM 95th %tile Q(veh |) | 0.1 | - | - | - | 0.3 |
| | | | | | | |

| Intersection | | | | | | |
|---|------------|---------------------|-------------|--------|-------------|-------------|
| Int Delay, s/veh | 0.1 | | | | | |
| | | FOT | MOT | WED | 051 | 000 |
| | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | | † | 1 | | Y | |
| Traffic Vol, veh/h | 8 | 407 | 519 | 14 | 0 | 0 |
| Future Vol, veh/h | 8 | 407 | 519 | 14 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| • | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 50 | - | - | - | 0 | - |
| Veh in Median Storage, # | # - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 |
| Heavy Vehicles, % | 0 | 2 | 2 | 0 | 0 | 0 |
| Mvmt Flow | 9 | 452 | 577 | 16 | 0 | 0 |
| | | | | | | |
| Mailan/Minan | -:1 | | 4-:0 | | A: O | |
| | ajor1 | | Major2 | | /linor2 | |
| Conflicting Flow All | 593 | 0 | - | 0 | 1055 | 585 |
| Stage 1 | - | - | - | - | 585 | - |
| Stage 2 | - | - | - | - | 470 | - |
| Critical Hdwy | 4.1 | - | - | - | 6.4 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.4 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.4 | - |
| Follow-up Hdwy | 2.2 | - | - | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | 993 | - | - | - | 252 | 515 |
| Stage 1 | - | - | - | - | 561 | - |
| Stage 2 | - | _ | - | - | 633 | - |
| Platoon blocked, % | | - | - | - | | |
| Mov Cap-1 Maneuver | 993 | _ | - | - | 250 | 515 |
| Mov Cap-2 Maneuver | _ | _ | _ | _ | 383 | - |
| Stage 1 | _ | _ | _ | _ | 556 | _ |
| Stage 2 | _ | _ | _ | _ | 633 | _ |
| Olugo Z | | | | | 000 | |
| | | | | | | |
| Approach | EB | | WB | | SB | |
| HCM Control Delay, s | 0.2 | | 0 | | 0 | |
| ricivi Corilloi Delay, s | | | | | Α | |
| HCM LOS | | | | | | |
| | | | | | | |
| HCM LOS | | EDI | EDT | WDT | WDD (| CDI n1 |
| HCM LOS Minor Lane/Major Mvmt | | EBL | EBT | WBT | WBR | SBLn1 |
| Minor Lane/Major Mvmt Capacity (veh/h) | | 993 | - | - | - | - |
| Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio | | 993 0.009 | - | - | - - | - |
| Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s) | | 993 0.009 8.7 | - - - | - - | - - - | - - 0 |
| Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio | | 993 0.009 | - | - | - - | - |

| Intersection | | | | | | |
|------------------------|-------|----------|--------|------|----------|-------|
| Int Delay, s/veh | 3.8 | | | | | |
| | | EST | MOT | ME | 051 | 000 |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | * | ↑ | ĵ, | | Y | |
| Traffic Vol, veh/h | 12 | 437 | 444 | 38 | 139 | 44 |
| Future Vol, veh/h | 12 | 437 | 444 | 38 | 139 | 44 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 3 | 0 | 2 |
| • | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 50 | - | - | - | 0 | - |
| Veh in Median Storage, | # - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 87 | 87 | 87 | 87 | 87 | 87 |
| Heavy Vehicles, % | 0 | 1 | 0 | 5 | 1 | 0 |
| Mvmt Flow | 14 | 502 | 510 | 44 | 160 | 51 |
| | | | | | | |
| Major/Minor M | ajor1 | | Major2 | | Minor2 | |
| | | | | | | 507 |
| Conflicting Flow All | 557 | 0 | - | | 1065 | 537 |
| Stage 1 | - | - | - | - | 535 | - |
| Stage 2 | - | - | - | - | 530 | - |
| Critical Hdwy | 4.1 | - | - | - | 6.41 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.41 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.41 | - |
| Follow-up Hdwy | 2.2 | - | - | - | 3.509 | 3.3 |
| Pot Cap-1 Maneuver | 1024 | - | - | - | 248 | 548 |
| Stage 1 | - | - | - | - | 589 | - |
| Stage 2 | - | - | - | - | 592 | - |
| Platoon blocked, % | | - | - | - | | |
| Mov Cap-1 Maneuver | 1021 | - | _ | - | 243 | 545 |
| Mov Cap-2 Maneuver | - | - | - | - | 378 | - |
| Stage 1 | - | - | - | _ | 579 | - |
| Stage 2 | _ | - | - | _ | 590 | - |
| 3 | | | | | | |
| A | ED. | | \A/D | | O.D. | |
| Approach | EB | | WB | | SB | |
| HCM Control Delay, s | 0.2 | | 0 | | 22.8 | |
| HCM LOS | | | | | С | |
| | | | | | | |
| Minor Lane/Major Mvmt | | EBL | EBT | WBT | WBR S | SBLn1 |
| Capacity (veh/h) | | 1021 | | | _ | 408 |
| HCM Lane V/C Ratio | | 0.014 | _ | _ | <u>_</u> | 0.516 |
| HCM Control Delay (s) | | 8.6 | _ | _ | _ | 22.8 |
| HCM Lane LOS | | Α | _ | _ | _ | C |
| HCM 95th %tile Q(veh) | | 0 | - | _ | - | 2.9 |
| HOW SOUT WITH Q(VEII) | | U | - | - | - | 2.9 |

| Intersection | | | | | | |
|---|--------|----------|--------|------|---------|--------------|
| Int Delay, s/veh | 0.4 | | | | | |
| | | EST | MOT | WED | 051 | 000 |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | 7 | ↑ | f) | | Y | |
| Traffic Vol, veh/h | 0 | 581 | 492 | 2 | 20 | 8 |
| Future Vol, veh/h | 0 | 581 | 492 | 2 | 20 | 8 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 50 | - | - | - | 0 | - |
| Veh in Median Storage, | # - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 88 | 88 | 88 | 88 | 88 | 88 |
| Heavy Vehicles, % | 0 | 2 | 1 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 660 | 559 | 2 | 23 | 9 |
| | | | | | | |
| Maiaw/Missas | 1-:4 | | 4-:0 | | A: O | |
| | lajor1 | | Major2 | | /linor2 | |
| Conflicting Flow All | 561 | 0 | - | 0 | 1220 | 560 |
| Stage 1 | - | - | - | - | 560 | - |
| Stage 2 | - | - | - | - | 660 | - |
| Critical Hdwy | 4.1 | - | - | - | 6.4 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.4 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.4 | - |
| Follow-up Hdwy | 2.2 | - | - | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | 1020 | - | - | - | 201 | 532 |
| Stage 1 | - | - | - | - | 576 | - |
| Stage 2 | - | - | _ | - | 518 | - |
| Platoon blocked, % | | - | - | - | | |
| Mov Cap-1 Maneuver | 1020 | - | - | - | 201 | 532 |
| Mov Cap-2 Maneuver | - | - | _ | - | 340 | - |
| Stage 1 | - | _ | - | _ | 576 | - |
| Stage 2 | _ | _ | _ | _ | 518 | _ |
| Glago 2 | | | | | 010 | |
| | | | | | | |
| Approach | EB | | WB | | SB | |
| HCM Control Delay, s | 0 | | 0 | | 15.4 | |
| HCM LOS | | | | | С | |
| | | | | | | |
| Minor Lane/Major Mvmt | | EBL | EBT | WBT | WBR | CDI n1 |
| | | | LDI | VVDI | יאטויי | |
| Canacity (yele/le) | | 1020 | - | - | - | 379 0.084 |
| Capacity (veh/h) | | | | | _ | U.U84 |
| HCM Lane V/C Ratio | | - | - | - | | |
| HCM Lane V/C Ratio HCM Control Delay (s) | | 0 | - | - | - | 15.4 |
| HCM Lane V/C Ratio | | | | | | |

| Intersection | | | | | | | |
|--------------------------|--------|--------------|------------------|----------|-------------|---------------|------|
| Int Delay, s/veh | 0.1 | | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR | |
| Lane Configurations | CDL | <u></u> | VVD1 } | MOR | SDL N | JDK 7 | |
| Traffic Vol, veh/h | 8 | T 432 | 552 | 14 | | <u>r</u> 1 | |
| Future Vol, veh/h | 8 | 432 | 552 | 14 | 1 | 1 | |
| Conflicting Peds, #/hr | 0 | 0 | 002 | 0 | 0 | 0 | |
| Sign Control | Free | Free | Free | Free | Stop | Stop | |
| RT Channelized | - | None | - | | - | None | |
| Storage Length | 50 | - | - | - | 0 | 40 | |
| Veh in Median Storage, | | 0 | 0 | - | 0 | - | |
| Grade, % | - | 0 | 0 | - | 0 | - | |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 | |
| Heavy Vehicles, % | 0 | 2 | 2 | 0 | 0 | 0 | |
| Mvmt Flow | 9 | 480 | 613 | 16 | 1 | 1 | |
| | | | | | | | |
| Major/Minor V | laior1 | N | Majora | N | /linor2 | | |
| | lajor1 | | Major2 | | | 604 | |
| Conflicting Flow All | 629 | 0 | - | | 1119 621 | 621 - | |
| Stage 1 | | - | - | - | 498 | | |
| Stage 2 Critical Hdwy | 4.1 | - | - | - | 6.4 | 6.2 | |
| Critical Hdwy Stg 1 | 4.1 | - | - | - | 5.4 | 0.2 | |
| Critical Hdwy Stg 2 | _ | - | - | - | 5.4 | - | |
| Follow-up Hdwy | 2.2 | - | | _ | 3.5 | 3.3 | |
| Pot Cap-1 Maneuver | 963 | | | | 231 | 491 | |
| Stage 1 | - | _ | _ | <u>-</u> | 540 | | |
| Stage 2 | _ | _ | _ | _ | 615 | _ | |
| Platoon blocked, % | | <u>-</u> | <u>-</u> | <u>-</u> | 010 | | |
| Mov Cap-1 Maneuver | 963 | _ | _ | _ | 229 | 491 | |
| Mov Cap-2 Maneuver | - | <u>-</u> | _ | <u>-</u> | 365 | - | |
| Stage 1 | _ | _ | _ | _ | 535 | _ | |
| Stage 2 | _ | _ | _ | _ | 615 | _ | |
| | | | | | 510 | | |
| Δ | | | 14/5 | | 0.5 | | |
| Approach | EB | | WB | | SB | | |
| HCM Control Delay, s | 0.2 | | 0 | | 13.6 | | |
| HCM LOS | | | | | В | | |
| | | | | | | | |
| Minor Lane/Major Mvmt | | EBL | EBT | WBT | WBR S | SBLn1 S | BLn2 |
| Capacity (veh/h) | | 963 | - | - | - | 365 | 491 |
| HCM Lane V/C Ratio | | 0.009 | - | - | - | 0.003 | |
| HCM Control Delay (s) | | 8.8 | - | - | - | 14.9 | 12.3 |
| HCM Lane LOS | | Α | - | - | - | В | В |
| HCM 95th %tile Q(veh) | | 0 | - | - | - | 0 | 0 |
| | | | | | | | |

| Intersection | | | | | | |
|------------------------|--------|---------------|-----------|------|----------|----------|
| Int Delay, s/veh | 0.8 | | | | | |
| | | FDT | WDT | WIDD | CDI | CDD |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | 7 | 101 | \$ | 400 | Y | 40 |
| Traffic Vol, veh/h | 45 | 421 | 389 | 168 | 22 | 10 |
| Future Vol, veh/h | 45 | 421 | 389 | 168 | 22 | 10 |
| Conflicting Peds, #/hr | _ 2 | 0 | _ 0 | 2 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | | None | - | None |
| Storage Length | 50 | - | - | - | 0 | - |
| Veh in Median Storage, | | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 |
| Heavy Vehicles, % | 2 | 3 | 3 | 1 | 0 | 11 |
| Mvmt Flow | 50 | 468 | 432 | 187 | 24 | 11 |
| | | | | | | |
| Major/Minor N | 1ajor1 | N | Major2 | N | Minor2 | |
| | 621 | 0 | | 0 | | 528 |
| Conflicting Flow All | | | - | | 1096 | |
| Stage 1 | - | - | - | - | 528 | - |
| Stage 2 | 4.40 | - | - | - | 568 | - |
| Critical Hdwy | 4.12 | - | - | - | 6.4 | 6.31 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.4 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.4 | - |
| | 2.218 | - | - | - | | 3.399 |
| Pot Cap-1 Maneuver | 960 | - | - | - | 238 | 533 |
| Stage 1 | - | - | - | - | 596 | - |
| Stage 2 | - | - | - | - | 571 | - |
| Platoon blocked, % | | - | - | - | | |
| Mov Cap-1 Maneuver | 958 | - | - | - | 225 | 532 |
| Mov Cap-2 Maneuver | - | - | - | - | 361 | - |
| Stage 1 | - | - | - | - | 564 | - |
| Stage 2 | - | - | - | - | 570 | - |
| | | | | | | |
| A | ED | | \A/D | | O.P. | |
| Approach | EB | | WB | | SB | |
| HCM Control Delay, s | 0.9 | | 0 | | 14.8 | |
| HCM LOS | | | | | В | |
| | | | | | | |
| Minor Lane/Major Mvmt | | EBL | EBT | WBT | WBR : | SBLn1 |
| Capacity (veh/h) | | 958 | | | - | |
| HCM Lane V/C Ratio | | 0.052 | _ | - | | 0.089 |
| HUW Lane V/L Ratio | | | | _ | _ | 14.8 |
| | | q | | | | |
| HCM Control Delay (s) | | 9 A | - | | | |
| | | 9 A 0.2 | - | - | - - | B 0.3 |

| 0.1 | | | | | |
|---------|--|--|--|--|--|
| EBL | EBT | WBT | WBR | SBL | SBR |
| | | | | | |
| 8 | 432 | 552 | 14 | 1 | 1 |
| 8 | 432 | 552 | 14 | 1 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 |
| | | Free | Free | Stop | Stop |
| _ | | | | _ | None |
| 50 | - | - | - | 0 | - |
| | 0 | 0 | - | | _ |
| _ | 0 | | - | | _ |
| 90 | | | 90 | | 90 |
| | | | | | 0 |
| | | | - | | 1 |
| J | 700 | 010 | 10 | | |
| | | | | | |
| /lajor1 | N | //ajor2 | l N | ∕linor2 | |
| 629 | 0 | - | 0 | 1119 | 621 |
| - | - | - | - | 621 | - |
| - | - | - | - | 498 | - |
| 4.1 | - | - | _ | 6.4 | 6.2 |
| - | - | - | - | 5.4 | - |
| _ | - | _ | - | 5.4 | _ |
| 2.2 | - | _ | - | | 3.3 |
| | _ | _ | _ | | 491 |
| | _ | _ | _ | | - |
| | _ | _ | | | _ |
| | _ | _ | | 010 | |
| 963 | | _ | | 220 | 491 |
| | _ | | | | - |
| | _ | | | | - |
| | - | | | | _ |
| - | _ | _ | _ | 010 | - |
| | | | | | |
| EB | | WB | | SB | |
| 0.2 | | 0 | | 13.6 | |
| | | | | | |
| | | | | | |
| | | | | | |
| t | | EBT | WBT | WBR S | |
| | | - | - | - | 419 |
| | | - | - | - | 0.005 |
| | | - | - | - | 13.6 |
| | | | | | _ D |
| | A 0 | - | - | - | B 0 |
| | 88 8 0 Free - 50 # - 90 0 9 1ajor1 629 - 4.1 - 2.2 963 963 5 0.2 | EBL EBT 8 432 8 432 0 0 Free Free - None 50 - 0 90 90 0 2 9 480 Major1 N 629 0 4.1 2.2 - 963 963 1 - 963 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | EBL EBT WBT 8 432 552 8 432 552 0 0 0 0 Free Free Free - None 50 # - 0 0 90 90 90 0 2 2 9 480 613 Major2 629 0 963 963 EB WB 0.2 0 EBL EBT 963 | EBL EBT WBT WBR 8 432 552 14 0 0 0 0 Free Free Free Free - None - None - None 50 | EBL EBT WBT WBR SBL *** *** *** 8 432 552 14 1 0 0 0 0 0 Free Free Free Free Stop - None - None - 0 - None - None - 0 50 0 0 - 0 # - 0 0 - 0 0 - 0 90 |

| Intersection | | | | | | |
|-----------------------------------|--------|-----------------|------------|------|-----------|-------|
| Int Delay, s/veh | 4.4 | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | T T | <u></u> | 7∌ | אטא | ₩. | אופט |
| Traffic Vol, veh/h | 13 | T 464 | 472 | 40 | 148 | 47 |
| Future Vol, veh/h | 13 | 464 | 472 | 40 | 148 | 47 |
| Conflicting Peds, #/hr | 0 | 404 | 4/2 | 3 | 0 | 2 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | Free - | None | Free - | None | Stop - | None |
| | 50 | None | - | | 0 | |
| Storage Length | | - | | - | | - |
| Veh in Median Storage | | 0 | 0 | - | 0 | - |
| Grade, % | - 07 | 0 | 0 | - 07 | 0 | - 07 |
| Peak Hour Factor | 87 | 87 | 87 | 87 | 87 | 87 |
| Heavy Vehicles, % | 0 | 1 | 0 | 5 | 1 | 0 |
| Mvmt Flow | 15 | 533 | 543 | 46 | 170 | 54 |
| | | | | | | |
| Major/Minor N | Major1 | N | Major2 | ı | Minor2 | |
| Conflicting Flow All | 592 | 0 | - viajoiz | | 1132 | 571 |
| Stage 1 | 592 | U | - | - | 569 | 5/1 |
| Stage 2 | - | _ | - | - | 563 | - |
| | 4.1 | - | - | | 6.41 | 6.2 |
| Critical Hdwy Critical Hdwy Stg 1 | | - | | - | 5.41 | 0.2 |
| , , | - | - | - | | 5.41 | |
| Critical Hdwy Stg 2 | | - | - | - | | - 2 2 |
| Follow-up Hdwy | 2.2 | - | - | | 3.509 | 3.3 |
| Pot Cap-1 Maneuver | 994 | - | - | - | 226 | 524 |
| Stage 1 | - | - | - | - | 568 | - |
| Stage 2 | - | - | - | - | 572 | - |
| Platoon blocked, % | | - | - | - | | |
| Mov Cap-1 Maneuver | 991 | - | - | - | 221 | 522 |
| Mov Cap-2 Maneuver | - | - | - | - | 358 | - |
| Stage 1 | - | - | - | - | 558 | - |
| Stage 2 | - | - | - | - | 570 | - |
| | | | | | | |
| Approach | EB | | WB | | SB | |
| HCM Control Delay, s | 0.2 | | 0 | | 26.3 | |
| • | 0.2 | | U | | | |
| HCM LOS | | | | | D | |
| | | | | | | |
| Minor Lane/Major Mvm | t | EBL | EBT | WBT | WBR | SBLn1 |
| Capacity (veh/h) | | 991 | - | - | - | 387 |
| HCM Lane V/C Ratio | | 0.015 | - | - | _ | 0.579 |
| HCM Control Delay (s) | | 8.7 | - | - | - | 26.3 |
| HCM Lane LOS | | A | - | - | - | D |
| HCM 95th %tile Q(veh) | | 0 | _ | _ | _ | 3.5 |
| 223. 7000 3(1011) | | | | | | 0.0 |

| Intersection | | | | | | |
|------------------------|-------|----------|-----------|------|---------|-------|
| Int Delay, s/veh | 0.4 | | | | | |
| | | FDT | MOT | WED | 001 | 000 |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | ٦ | ↑ | \$ | | Y | • |
| Traffic Vol, veh/h | 1 | 617 | 522 | 2 | 20 | 8 |
| Future Vol, veh/h | 1 | 617 | 522 | 2 | 20 | 8 |
| Conflicting Peds, #/hr | _ 0 | _ 0 | _ 0 | _ 0 | 0 | 0 |
| 3 | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | | None | - | None |
| Storage Length | 50 | - | - | - | 0 | - |
| Veh in Median Storage, | # - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 88 | 88 | 88 | 88 | 88 | 88 |
| Heavy Vehicles, % | 0 | 2 | 1 | 0 | 0 | 0 |
| Mvmt Flow | 1 | 701 | 593 | 2 | 23 | 9 |
| | | | | | | |
| Major/Minor Ma | ajor1 | N | Major2 | N | /linor2 | |
| Conflicting Flow All | 595 | 0 | - - | 0 | 1297 | 594 |
| Stage 1 | - | - | _ | - | 594 | - 394 |
| Stage 2 | - | _ | _ | _ | 703 | _ |
| Critical Hdwy | 4.1 | | | | 6.4 | 6.2 |
| • | 4.1 | - | - | - | 5.4 | 0.2 |
| Critical Hdwy Stg 1 | - | - | - | - | | |
| Critical Hdwy Stg 2 | - | - | - | - | 5.4 | - |
| Follow-up Hdwy | 2.2 | - | - | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | 991 | - | - | - | 180 | 509 |
| Stage 1 | - | - | - | - | 555 | - |
| Stage 2 | - | - | - | - | 495 | - |
| Platoon blocked, % | | - | - | - | | |
| Mov Cap-1 Maneuver | 991 | - | - | - | 180 | 509 |
| Mov Cap-2 Maneuver | - | - | - | - | 320 | - |
| Stage 1 | - | - | - | - | 554 | - |
| Stage 2 | - | - | - | - | 495 | - |
| | | | | | | |
| Approach | EB | | WB | | SB | |
| HCM Control Delay, s | 0 | | 0 | | 16 | |
| HCM LOS | U | | U | | C | |
| TIOW LOS | | | | | U | |
| | | | | | | |
| Minor Lane/Major Mvmt | | EBL | EBT | WBT | WBR : | SBLn1 |
| Capacity (veh/h) | | 991 | - | - | - | 358 |
| HCM Lane V/C Ratio | | 0.001 | - | - | - | 0.089 |
| HCM Control Delay (s) | | 8.6 | - | - | - | 16 |
| HCM Lane LOS | | Α | - | - | - | С |
| HCM 95th %tile Q(veh) | | 0 | - | - | - | 0.3 |
| | | | | | | |



Attachment 3 – NWHC Conceptual Site Plan/ Rendering

NWHC Modernizaion Concept



