Westgate Elementary School Traffic and Parking Study Arlington Heights, Illinois



**Prepared For:** 

Arlington Heights School District 25

#### **Prepared by:**

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# INTRODUCTION

Eriksson Engineering Associates, Ltd. (EEA) was retained by Arlington Heights School District 25 (AHSD 25) to conduct a traffic and parking study for the proposed addition of all-day Kindergarten classes at Westgate School in Arlington Heights, Illinois. The purpose of the study was to observe the existing traffic patterns around the school, to determine the traffic characteristics of the existing and expanded school, to review its parking needs, and to develop roadway and parking recommendations.

## **EXISTING CONDITIONS**

#### Site Location and Area Land-Uses

Westgate School is located at 500 S. Dwyer Avenue in Arlington Heights, Illinois. The site is bounded by Dwyer Avenue to the east, Grove Street to the north, and residential homes to the west and south. It is located within a single-family residential neighborhood. **Figure 1** illustrates the site location and the surrounding land-uses and roads.

#### **Bicycle and Pedestrian Routes**

Dwyer Avenue is an existing bike route extending from Central Road to Euclid Avenue. Grove Street is also a bike route east of Dwyer Avenue. Public sidewalks are located on both sides of the neighborhood streets on Dwyer Avenue and Grove Street surrounding the school.

The All-Way Stop Controlled (AWSC) intersection of Dwyer Avenue and Grove Street has crosswalks on all four legs. The Two-Way Stop Controlled (TWSC) intersection of Grove Street and Harvard Avenue has a crosswalk on the north leg. The TWSC intersection of Grove Street and Princeton Avenue has crosswalks on the north, south, and east legs. During the school's arrival and dismissal periods crossing guards are used by the school on the intersections of Dwyer Avenue/Grove Street and Dwyer Avenue/ Harvard Avenue.

#### **Roadway Characteristics**

The roads surrounding the school are under the jurisdiction of the Village of Arlington Heights. A description of the area roadways accessing the school is provided on **Figure 2** and below:

**Dwyer Avenue** is a north-south local residential roadway with one travel lane in each direction. It has a 25-mph speed limit with a 20-mph school speed limit approaching the school. AN All-Way-Stop-Controlled intersection is provided at Grove Street. Parking is not permitted on both sides of the street surrounding the school during drop-off and pick-up hours.

*Grove Street* is an east-west local residential roadway with one travel lane in each direction. It has a 25-mph speed limit with a 20-mph school speed limit approaching the school. Parking is not permitted on both sides of the street surrounding the school during school drop-off and pick-up hours.

*Harvard Avenue* is a north-south local residential roadway with one travel lane in each direction. It has a 25-mph speed limit. Parking is not permitted on both sides of the street on the corner surrounding the school during school drop-off and pick-up hours.

*Princeton Avenue* is a north-south local residential roadway with one travel lane in each direction. It has a 25-mph speed limit. Parking is permitted on both sides of the street.

The **Appendix** has a detailed signage map around the school prepared by the Village of Arlington Heights.

#### **Existing Traffic Volumes**

Weekday morning arrival (8:00-9:30 AM) and afternoon dismissal (2:30-4:00 PM) manual traffic counts were conducted along Dwyer Avenue and Grove Street. Peak-hours of school traffic occurred from 8:15 to 9:15 AM and 3:00 to 4:00 PM on a school weekday which coincides with the school's 9:05 AM start and 3:35 PM dismissal. The existing traffic volumes are shown on **Figure 3A** and included in the **Appendix**. EEA separated the school

traffic from the background traffic in Figures 3B and 3C. Figure 4 summarizes the existing pedestrian and bicycle volumes observed.

#### School Observations

Westgate School's arrival and dismissal times for the First thru 5<sup>th</sup> Grades are from 9:05 AM to 3:35 PM. The halfday Kindergarten goes from 9:05 to 11:50 AM and from 12:50 PM to 3:35 PM.

School buses load on the south side of Grove Street north of the school in an existing paved loading area in the parkway. Teachers and staff park in the three lots serving the school on the west, east, and south sides of the school. Kindergarten loading occurs in the west lot off of Grove Street. All other grades load on the east side of the school on Dwyer Avenue or in the east lot.

During the morning arrival period, traffic worked smoothly with little congestion. EEA used an aerial drone to record pictures of the school's operating condition during the arrival and dismissal. **Exhibit 1** shows one photograph taken ten minutes before the start of the school day. There are several movements posted as no turn during school arrival or dismissal periods that were ignored by a small number of drivers.

Exhibit 1 Westgate School Arrival Period – View from the Northwest August 30, 2022 – 8:55 AM



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The afternoon dismissal did not work as well as the morning arrival with cars queuing in the east lot and along the west side of Dwyer Avenue. Parents started to line up a half hour before the 3:35 PM school dismissal. Eventually parent vehicles backed up into the Grove Street intersection with cars on the north and east legs waiting to join the queue which interfered with non-school traffic movements. **Exhibit 2** shows an example of the queuing at 3:31 PM just before the school bell.

Exhibit 2 Westgate School Dismissal Period – View from the Northwest August 30, 2022 – 3:31 PM



Two school buses serve the school and load on Grove Street north of the school with a total rider ship of 17 to 23 students. Eight taxis also bring students to the school.





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# Site Location & Area Roadways



# **Existing Roadway Geometrics**





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# **Existing Traffic Volumes**

Figure 3A



# **Existing School Traffic Volumes**

Figure 3B

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# **Existing Non-School Traffic Volumes**

Figure 3C



# Year 2022 Pedestrian and Bike Volumes

Figure 4

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# SITE TRAFFIC CHARACTERISTICS

#### Site Plan

The school currently serves 600 children including 98 kindergartners with 95 staff. A full-day kindergarten program is planned for the school which will increase the number of students at the beginning and end of the day. The overall student population is expected to grow by 61 students to 661 students (+9%) including 111 kindergarteners over the next five years. The number of staff is expected to grow from 100 to 102 persons. Additional school buses will not be required.

#### **School Trip Generation and Distribution**

Traffic estimates were made for the additional students using the traffic counts at the current school with adjustments for the full-day kindergarten and growth in students. The trip generation rates for the school are higher in the afternoon and lower in the morning than the data provided by the Institute of Transportation Engineer's <u>Trip Generation</u>, 11<sup>th</sup> Ed. manual for elementary schools. These were provided as a comparison. The rate of vehicle trip generation was applied to the proposed increase in students with the results shown in **Table 1**.

| Scenario                              | Мо                   | rning Ar  | rival  | Aftern | oon Dis | smissal |
|---------------------------------------|----------------------|-----------|--------|--------|---------|---------|
| ocenano                               | In                   | Out       | Total  | In     | Out     | Total   |
| Trip Generation Based on E            | Existing             | Traffic V | olumes |        |         |         |
| Existing 600 Students                 | 176                  | 111       | 287    | 149    | 155     | 304     |
| Total 661 Students                    | 212                  | 133       | 345    | 179    | 186     | 365     |
| Net Additional Traffic                | +36                  | +22       | +58    | +30    | +31     | +61     |
| ITE Trip Generation Compa             | rison <sup>(1)</sup> |           |        |        |         |         |
| Existing 600 Students                 | 240                  | 204       | 444    | 124    | 146     | 270     |
| Total 661 Students                    | 264                  | 225       | 489    | 136    | 161     | 297     |
| Net Additional Traffic <sup>(2)</sup> | +24                  | +21       | +45    | +12    | +15     | +27     |

 Table 1

 School Expansion Traffic Volumes

(1) ITE Trip Generation Manual, 11th Edition – Land Use Code 520 (Elementary School)

(2) For comparison only – Not used for analyses

The directional distribution for school traffic is based on the existing school traffic counts and is shown in **Table 2** and on **Figure 5**.

| Existing Directional Distribution |            |
|-----------------------------------|------------|
| Direction                         | Percentage |
| West on Grove Street              | 19%        |
| North on Harvard Avenue           | 8%         |
| North on Dwyer Avenue             | 17%        |
| East on Grove Street              | 18%        |
| South on Dwyer Avenue             | 38%        |
| Total                             | 100%       |

# Table 2Existing Directional Distribution

#### Trip Assignment

The future vehicular trips that are generated by the school were distributed to the area roadways based on the site plan, projected school volumes, and the directional distribution analysis. **Figure 6** illustrates the total traffic generated by the school (existing and expansion) and its assignment on the road system.

Two changes were made to the school's circulation plan to address current problems. Currently the west lot is used by the half-day Kindergarten program. With the incorporation of the Kindergarten into a full-day program, the west lot can be used by all parents to drop-off/pick-up students which helps reduce the demand of vehicles using the east lot/Dryden Avenue for loading. The other change is the closure of the existing entry to the East Lot and combining the it with the existing exit lane to create more stacking space on-site and on-street to eliminate back-ups into the Grove/Dryden intersection.

**Figure 7** shows the total traffic volumes which a combination of Figure 3C (Non-School traffic) and Figure 5 (Projected School Volumes).

# ANALYSES

#### **Intersection Capacity Analyses**

An intersection's ability to accommodate traffic flow is based on the average control delay experienced by vehicles passing through the intersection. The intersection and individual traffic movements are assigned a level of service (LOS), ranging from A to F based on the control delay created by a traffic signal or stop sign. Control delay consists of the initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay. LOS A has the best traffic flow and least delay. LOS E represents saturated or at capacity conditions. LOS F experiences oversaturated conditions and extensive delays. The <u>Highway Capacity Manual</u> definitions for levels of service and the corresponding control delay for both signalized and unsignalized intersections are shown in **Table 3**.

| Level<br>of | Description   |         | ol Delay<br>s/vehicle) |
|-------------|---|---------|------------------------|
| Service     |   | Signals | Stop Signs             |
| А           | Minimal delay and few stops                         | <10     | <10                    |
| В           | Low delay with more stops                           | >10-20  | >10-15                 |
| С           | Light congestion                                    | >20-35  | >15-25                 |
| D           | Congestion is more noticeable<br>with longer delays | >35-55  | >25-35                 |
| E           | High delays and number of stops                     | >55-80  | >35-50                 |
| F           | Unacceptable delays and over<br>capacity            | >80     | >50                    |

Table 3Level of Service Criteria for Intersections

Source: Highway Capacity Manual

Capacity analyses were conducted for each intersection using the computer program Highway Capacity Software (HCS) to determine the existing operating conditions of the access system. These analyses were performed for the school's peak arrival and dismissal periods. **Table 4** shows the existing and future level of service results for each intersection. Copies of the capacity analysis summaries are included in the **Appendix**.

#### Dwyer Avenue at Grove Street

The four-way stop controlled intersection generally works well today and in the future except during the current afternoon dismissal period when t parent pick-up traffic backs up into the intersection. To eliminate this issue, the east lot and access has been redesigned to double the amount of available stacking space (445 to 900 feet) before cars impact the intersection. Also, removing the current restriction in the west lot to only Kindergarten loading will give parents a second loading area to use and reduce the demand in the east lot. No other improvements are proposed for this intersection.

#### Dwyer Avenue at the East Lot Access

The current east lot access is split into separate inbound and outbound driveways. In the afternoon parent traffic stacks onto the street and into the Dwyer/Grove intersection. The inbound driveway will be redesigned and used as an emergency vehicle access with a gate and the outbound drive be widened to a two-way driveway to the expand East Lot. The plan will double the amount of available stacking space (445 to 900 feet) before cars impact the intersection. The current left-turn restrictions at the entrance will remain. Existing driveway signage will be moved.

#### **Dwyer Avenue at the South Lot Access**

This access point serves the staff parking lot on the south side of the school with one inbound and one outbound lane under stop sign control. The existing and projected usage of this driveway is low and will not require any additional improvements.

|                                      |             | AM A     | rrival | PM Dis   | smissal |
|--------------------------------------|-------------|----------|--------|----------|---------|
| Intersection                         | Movement    | Existing | Future | Existing | Future  |
|                                      | NB Approach | A-8.0    | A-8.0  | A-8.1    | A-8.0   |
| Dwyer Avenue at<br>Grove Street      | SB Approach | A-8.3    | A-8.4  | A-8.7    | A-8.5   |
| (All-Way Stop)                       | EB Approach | A-8.0    | A-8.0  | A-8.4    | A-8.3   |
|                                      | WB Approach | A-8.5    | A-8.7  | A-9.0    | A-8.8   |
| Dwyer Avenue at<br>East Lot Entrance | NB Left     | A-7.9    | Closed | A-8.0    | Closed  |
| Dwyer Avenue at<br>East Lot Exit     | EB Approach | B-10.3   | B11.1  | A-10.6   | B10.7   |
| Dwyer Avenue at                      | NB Left     | A-7.7    | A-7.7  | A-7.8    | A-7.8   |
| South Lot                            | EB Approach | A-10.7   | A-10.9 | A-10.3   | A-10.7  |
|                                      | NB Approach | A-13.2   | C-16.8 | B-12.3   | B-13.1  |
| Grove Street at<br>Harvard Avenue    | SB Approach | B-12.2   | B-12.9 | B-10.5   | B-10.7  |
| And West Lot                         | EB Left     | A-7.5    | A-7.5  | A-7.4    | A-7.4   |
|                                      | WB Left     | A-7.7    | A-7.7  | A-7.6    | A-7.6   |
|                                      | NB Approach | A-9.6    | A-9.8  | B-10.4   | B-10.5  |
| Grove Street at                      | SB Approach | A-10.2   | B-10.7 | B-10.3   | B-10.5  |
| Princeton Avenue                     | EB Left     | A-7.4    | A-7.5  | A-7.4    | A-7.5   |
|                                      | WB Left     | A-7.4    | A-7.4  | A-7.5    | A-7.6   |

Table 4 Intersection Level of Service and Delay

#### Grove Street at Harvard Avenue

The exit from the west parking lot currently has a no right-turn restriction to minimize school traffic going thru the congested intersection of Grove Street and Dwyer Avenue. This restriction is ignored by 13-15 vehicles that turned right during the 2022 traffic counts. With the proposed changes to the east lot stacking, the congestion at the four-way stop should be eliminated. As a result, it is proposed that the northbound right-turn restriction be removed.

#### Grove Street at Princeton Avenue

The two-way stop intersection with stop signs on Princeton Avenue operates well and will to continue to operate well in the future. No additional improvements are recommended.

#### Stacking

**Figures 8 and 9** illustrate the existing and future on-site stacking available to use at Westgate School. The west lot has room for 17 vehicles which exceeded the demand from the previous half-day Kindergarten and the additional traffic from the rest of the school.

In the east lot, the on-site queuing increase from 11 vehicles to 18 and the total available queue increased from 18 vehicles to 36 vehicles. When the traffic backed-up thru the intersection, there were approximately 28 total vehicles observed in the queue. The proposed design will accommodate the existing demand with room to spare.

#### Parking

The existing on-site parking supply provides a total of 108 parking spaces including five accessible spaces. Parking counts were conducted in August, 2022 after the morning arrival period which found the west lot nearly full and the other two lots with unused spaces. There was a total of 78 vehicles parked in 111 spaces **Table 5** summarizes the parking inventory and survey by lot.

| Lot   | Pa       | rking Invento | ry    |          | Survey<br>2022) |
|-------|----------|---------------|-------|----------|-----------------|
|       | Standard | Accessible    | Total | Vehicles | Occupancy       |
| West  | 46       | 2             | 48    | 40       | 83%             |
| East  | 17       | 1             | 18    | 10       | 55%             |
| South | 43       | 2             | 45    | 28       | 62%             |
| Total | 106      | 5             | 111   | 78       | 70%             |

Table 5Westgate School Parking Inventory and Survey

With the proposed improvements to the east lot's loading area, the number of parking spaces will increase from 18 to 24 spaces for a campus total of 120 spaces.

The Village of Arlington Heights Zoning Ordinance requires elementary schools to provide one parking space per each employee (102 staff) and one per every five classrooms (44 rooms) for a total of 111 spaces. With 120 spaces, the zoning code requirement is met.

National parking data is available from the Institute of Transportation Engineers (ITE) in their publication <u>Parking</u> <u>Generation</u>, 5<sup>th</sup> Edition for elementary schools (Land Use Code 520). The peak demand in the ITE data was 0.13 spaces per student (661 students) or 86 spaces.

With 102 staff members (+2), the total school demand would be 80 spaces based on the school parking surveys.

Based on the ITE and school parking data, the proposed 120 parking spaces will adequately serve the school's needs. Five accessible stalls are required and five spaces provided. Parking for special events at the school can be accommodated by a combination of the off-street parking and on-street parking by the school.



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# Future Traffic Volumes

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# Proposed Parent On-Site Stacking

#### SUMMARY

This report summarizes the results of traffic and parking study for the expansion of Greenbrier School in Arlington Heights, Illinois. The following recommendations were developed:

- 1. The proposed expansion of Westgate School from 600 to 661 students will add 58 to 61 trips during the peak school hours and will not adversely impact the level-of-service of study area intersections.
- 2. It is recommended that the east parking lot exit be redesigned with one inbound and outbound entrance to increase the available queuing for parent traffic.
- 3. The northbound right-turn prohibition from the northbound west parking lot exit can be removed.
- 4. Parking counts at the school show that the 120 parking spaces will serve the needs of the expanded school. A parking variation is not required by code.



# <u>Appendix</u>

- Existing 2022 Traffic Counts
- Arlington Heights Signage
- Arlington Heights Bike Map
- School Info
  - Bussing Schedule
  - Taxi Data
  - Crossing Guard Locations
  - School Boundary Map
  - Traffic Plan
- ITE Traffic and Parking Calculations
- Intersection Capacity Analyses
  - 2022 Existing Conditions
  - 2028 Total Traffic Volumes

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|              |                        |              |      |       |                     |      | Wheaton, IL | _            |      |       |                     |      |        |        |        |
|--------------|------------------------|--------------|------|-------|---------------------|------|-------------|--------------|------|-------|---------------------|------|--------|--------|--------|
|              | 2                      | Dwyer Avenue | e    |       | <b>Grove Street</b> | -    | 2           | Dwyer Avenue | e    |       | <b>Grove Street</b> |      |        |        |        |
|              | S                      | Southbound   |      |       | Westbound           |      | ~           | Northbound   |      |       | Eastbound           |      | 15     | 60     | Peak   |
| Begin        | Right                  |              | Left | Right |                     | Left | Right       |              | Left | Right |                     | Left | Minute | Minute | Hour   |
| Time         | Turn                   | Through      | Turn | Turn  | Through             | Turn | Turn        | Through      | Turn | Turn  | Through             | Turn | Totals | Totals | Factor |
|              | Monday August 29, 2022 | just 29, 20  | 22   |       |                     |      |             |              |      |       |                     |      |        |        |        |
| 8:00 AM      | ω                      | 12           | 2    | F     | 35                  | 5    | 2           | 4            | 9    | 6     | 14                  | _    | 66     | 335    | 0.76   |
| 8:15 AM      | -                      | 8            | 7    | _     | 13                  | 4    | 2           | 11           | 4    | 7     | 12                  | 5    | 65     | 300    | 0.68   |
| 8:30 AM      | 0                      | 12           | 7    | 0     | 1<br>4              | ω    | 2           | 5            | 2    | 5     | 10                  | -    | 61     | 261    | 0.59   |
| 8:45 AM      | 0                      | 33           | 7    | _     | 12                  | 37   | 2           | 5            | 0    | 14    | 4                   | 0    | 110    |        |        |
| 9:00 AM      | 2                      | 11           | ო    | 2     | 6                   | 5    | 2           | 10           | 2    | 9     | 12                  | 0    | 64     |        |        |
| 9:15 AM      | 1                      | З            | 0    | 0     | 7                   | 0    | 1           | 7            | 0    | 3     | 4                   | 0    | 26     |        |        |
| Total        | 12                     | 62           | 11   | 5     | 06                  | 65   | 11          | 42           | 14   | 68    | 56                  | 2    |        |        |        |
| 8:15-9:15 AM | 3                      | 64           | 6    | 4     | 48                  | 54   | 8           | 31           | 8    | 27    | 38                  | 6    | 300    |        |        |
|              | Monday August 29, 2022 | just 29, 20  | 22   |       |                     |      |             |              |      |       |                     |      |        |        |        |
| 2:30 PM      | 2                      | 5            | 2    |       | 5                   | L    | 2           | 8            | З    | L     | 13                  | 2    | 45     | 300    | 0.71   |
| 2:45 PM      | 0                      | 4            | ო    | 4     | 16                  | 5    | ო           | 8            | -    | 7     | 18                  | 0    | 64     | 323    | 0.76   |
| 3:00 PM      | -                      | 14           | 4    | ы     | 19                  | 15   | -           | ~            | -    | 7     | 16                  | ო    | 85     | 322    | 0.76   |
| 3:15 PM      | -                      | 23           | -    | 7     | 18                  | 18   | 8           | ø            | -    | 10    | 16                  | 0    | 106    |        |        |
| 3:30 PM      | 4                      | 15           | 4    | 7     | 15                  | ø    | -           | 4            | 0    | 5     | 10                  | 0    | 68     |        |        |
| 3:45 PM      | l                      | 13           | 4    | -     | 6                   | -    | 4           | 8            | 0    | 2     | 16                  | 4    | 63     |        |        |
| Total        | 6                      | 74           | 18   | 12    | 82                  | 48   | 19          | 43           | 9    | 22    | 89                  | 6    |        |        |        |
| 3:00-4:00 PM | 7                      | 65           | 13   | 7     | 61                  | 42   | 14          | 27           | 2    | 19    | 58                  | 7    | 322    |        |        |

# **Grove Street and Dwyer Avenue**

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|              |             |                         |      | ) )   |                     |      |             |                  |      |       |              |      |        |        |        |
|--------------|-------------|-------------------------|------|-------|---------------------|------|-------------|------------------|------|-------|--------------|------|--------|--------|--------|
|              |             |                         |      |       |                     |      | Wheaton, IL |                  |      |       |              |      |        |        |        |
|              | Prii        | <b>Princeton Avenue</b> | Je   |       | <b>Brove Street</b> |      | Prir        | Princeton Avenue | ue   |       | Grove Street |      |        |        |        |
|              | •••         | Southbound              |      |       | Westbound           |      | -           | Northbound       |      |       | Eastbound    |      | 15     | 60     | Peak   |
| Begin        | Right       |                         | Left | Right |                     | Left | Right       |                  | Left | Right |              | Left | Minute | Minute | Hour   |
| Time         | Turn        | Through                 | Turn | Turn  | Through             | Turn | Turn        | Through          | Turn | Turn  | Through      | Turn | Totals | Totals | Factor |
|              | Tuesday Aug | Tuesday August 30, 2022 | 5    |       |                     |      |             |                  |      |       |              |      |        |        |        |
| 8:00 AM      | 0           | 0                       | 0    | -     | 24                  | 2    | т           | 0                | 2    | 2     | 18           | 0    | 52     | 183    | 0.82   |
| 8:15 AM      | -           | -                       | 0    | 0     | 6                   | -    | -           | 2                | 0    | 2     | 14           | 0    | 31     | 171    | 0.76   |
| 8:30 AM      | 0           | 7                       | -    | 0     | 12                  | 2    | 4           | 0                | 0    | -     | 21           | -    | 44     | 158    | 0.71   |
| 8:45 AM      | 0           | 0                       | ო    | ო     | 13                  | 9    | 5           | 2                | -    | 2     | 18           | e    | 56     |        |        |
| 9:00 AM      | -           | -                       | -    | 4     | 19                  | 0    | с           | -                | 2    | -     | ~            | 0    | 40     |        |        |
| 9:15 AM      | 0           | 0                       | 0    | 0     | 13                  | 2    | 0           | 0                | 0    | 0     | З            | 0    | 18     |        |        |
| Total        | 2           | 4                       | 5    | 8     | 06                  | 13   | 16          | 5                | 5    | 8     | 81           | 4    |        |        |        |
| 8:15-9:15 AM | 2           | 4                       | 5    | 7     | 53                  | 6    | 13          | 5                | 3    | 6     | 60           | 4    | 171    |        |        |
|              | Tuesday Aug | Tuesday August 30, 2022 | 2    |       |                     |      |             |                  |      |       |              |      |        |        |        |
| 2:30 PM      | 0           | 0                       | 0    | -     | 7                   | -    | 2           | 0                | -    | L     | 12           | _    | 26     | 1 67   | 0.70   |
| 2:45 PM      | 0           | -                       | 0    | ო     | 19                  | -    | 2           | 0                | -    | 0     | 14           | 0    | 41     | 201    | 0.84   |
| 3:00 PM      | -           | 0                       | 0    | -     | 13                  | -    | e           | -                | 5    | 0     | 18           | 0    | 40     | 200    | 0.83   |
| 3:15 PM      | 0           | 7                       | 7    | 0     | 21                  | 2    | e           | -                | -    | 2     | 24           | 2    | 60     |        |        |
| 3:30 PM      | ო           | ო                       | -    | 7     | 16                  | -    | -           | ო                | -    | -     | 24           | 4    | 60     |        |        |
| 3:45 PM      | 0           | 0                       | 0    | -     | 14                  | З    | 4           | 1                | -    | З     | 11           | 2    | 40     |        |        |
| Total        | 4           | 9                       | ო    | 8     | 06                  | 6    | 15          | 9                | ~    | 7     | 103          | 6    |        |        |        |
| 3:00-4:00 PM | 4           | 5                       | 3    | 4     | 64                  | 7    | =           | 6                | 5    | 6     | 77           | 8    | 200    |        |        |

**Grove Street and Princeton Avenue** 



# **Dwyer Avenue and South Lot**

|              | Dwyer Avenue              | Avenue              | Dwyer Avenue | Avenue | South Lot | n Lot |        |        |        |
|--------------|---------------------------|---------------------|--------------|--------|-----------|-------|--------|--------|--------|
|              | Southbound                | pound               | Northbound   | punoc  | Eastbound | ound  | 15     | 60     | Peak   |
| Begin        | Right                     |                     |              | Left   | Right     | Left  | Minute | Minute | Hour   |
| Time         | Turn                      | Through             | Through      | Turn   | Turn      | Turn  | Totals | Totals | Factor |
|              | Wednesday August 31, 2022 | <u>August 31, 2</u> | 022          |        |           |       |        |        |        |
| 8:00 AM      | 0                         | 19                  | 12           | 2      | 0         | 0     | 33     | 200    | 0.51   |
| 8:15 AM      | 4                         | 18                  | 12           | ო      | 0         | 0     | 37     | 223    | 0.56   |
| 8:30 AM      | ო                         | 18                  | 5            | S      | 0         | 0     | 31     | 198    | 0.50   |
| 8:45 AM      | 7                         | 68                  | 10           | S      | 6         | 0     | 66     |        |        |
| 9:00 AM      | -                         | 42                  | ø            | 0      | 4         | -     | 56     |        |        |
| 9:15 AM      | 0                         | 5                   | ~            | 0      | 0         | 0     | 12     |        |        |
| Total        | 15                        | 170                 | 54           | 15     | 13        | L     |        |        |        |
| 8:15-9:15 AM | 15                        | 146                 | 35           | 13     | 13        | 1     | 223    |        |        |
|              | Wednesday August 31       |                     | , 2022       |        |           |       |        |        |        |
| 2:30 PM      | 0                         | 11                  | 15           | 0      | 0         | 0     | 26     | 105    | 0.67   |
| 2:45 PM      | 0                         | 6                   | ø            | -      | 0         | 0     | 15     | 161    | 0.49   |
| 3:00 PM      | -                         | 6                   | 15           | 0      | 0         | 0     | 25     | 185    | 0.56   |
| 3:15 PM      | 4                         | 16                  | 12           | 9      | -         | 0     | 39     |        |        |
| 3:30 PM      | -                         | 59                  | Ŷ            | -      | 15        | 0     | 82     |        |        |
| 3:45 PM      | 0                         | 20                  | 10           | 0      | 9         | 3     | 39     |        |        |
| Total        | 9                         | 121                 | 99           | 8      | 22        | 3     |        |        |        |
| 3:00-4:00 PM | 9                         | 104                 | 43           | ~      | 22        | ო     | 185    |        |        |



# Dwyer Avenue and School Dropff/Pickup Circle

|              | Dwyer Avenue | Avenue              | Dwyer Avenue | Avenue | Circle    | cle  |        |        |        |
|--------------|--------------|---------------------|--------------|--------|-----------|------|--------|--------|--------|
|              | Southbound   | pound               | Northbound   | pond   | Eastbound | ound | 15     | 60     | Peak   |
| Begin        | Right        |                     |              | Left   | Right     | Left | Minute | Minute | Hour   |
| Time         | Turn         | Through             | Through      | Turn   | Turn      | Turn | Totals | Totals | Factor |
|              | Wednesday .  | August 31, 2        | , 2022       |        |           |      |        |        |        |
| 8:00 AM      | 1            | 0                   | 0            | 0      | 0         | 0    | l      | 135    | 0.29   |
| 8:15 AM      | ო            | 0                   | 0            | 7      | 0         | -    | 6      | 187    | 0.40   |
| 8:30 AM      | ¢            | 0                   | 0            | 0      | 9         | 0    | 12     | 184    | 0.40   |
| 8:45 AM      | 60           | 0                   | 0            | 2      | 52        | 2    | 116    |        |        |
| 9:00 AM      | 23           | 0                   | 0            | 0      | 24        | 9    | 53     |        |        |
| 9:15 AM      | -            | 0                   | 0            | 0      | -         | -    | S      |        |        |
| Total        | 94           | 0                   | 0            | 4      | 83        | 10   |        |        |        |
| 8:15-9:15 AM | 92           | 0                   | 0            | 4      | 82        | 9    | 187    |        |        |
|              | Wednesday .  | <u>August 31, 2</u> | 2022         |        |           |      |        |        |        |
| 2:30 PM      | 1            | 0                   | 0            | 0      | 0         | 2    | З      | 25     | 0.37   |
| 2:45 PM      | -            | 0                   | 0            | 0      | 0         | 0    | -      | 62     | 0.39   |
| 3:00 PM      | 2            | 0                   | 0            | -      | -         | 0    | 4      | 66     | 0.41   |
| 3:15 PM      | 10           | 0                   | 0            | ব      | -         | 2    | 17     |        |        |
| 3:30 PM      | 13           | 0                   | 0            | 0      | 26        | -    | 40     |        |        |
| 3:45 PM      | 0            | 0                   | 0            | 1      | 2         | 2    | 5      |        |        |
| Total        | 22           | 0                   | 0            | 9      | 30        | 7    |        |        |        |
| 3:00-4:00 PM | 25           | 0                   | 0            | 9      | 30        | ŝ    | 66     |        |        |

| Grove Street and Harvard Avenue/West Lot | reet and               | Harva          | rd Avei | nue/We | st Lot              |      |             |            |      |       |                     |      |        | l      |        |
|--|------------------------|----------------|---------|--------|---------------------|------|-------------|------------|------|-------|---------------------|------|--------|--------|--------|
|  |                        |                |         |        |                     |      | Wheaton, IL |            |      |       |                     |      |        |        |        |
|  | Hai                    | Harvard Avenue | ue      |        | <b>Grove Street</b> |      |             | West Lot   |      |       | <b>Grove Street</b> | ÷    |        |        |        |
|  | s                      | Southbound     |         |        | Westbound           |      | ~           | Northbound |      |       | Eastbound           |      | 15     | 60     | Peak   |
| Begin                                    | Right                  |                | Left    | Right  |                     | Left | Right       |            | Left | Right |                     | Left | Minute | Minute | Hour   |
| Time                                     | Turn                   | Through        | Turn    | Turn   | Through             | Turn | Turn        | Through    | Turn | Turn  | Through             | Turn | Totals | Totals | Factor |
|  | Monday August 29, 2022 | gust 29, 20    | 22      |        |                     |      |             |            |      |       |                     |      |        |        |        |
| 8:00 AM                                  | 2                      | 0              | 0       | 0      | 0                   | ω    | _           | 0          | _    | 4     | 0                   | 0    | 16     | 118    | 0.43   |
| 8:15 AM                                  | ო                      | 0              | -       | 0      | 0                   | ო    | 4           | 0          | 0    | ę     | 0                   | 0    | 14     | 118    | 0.43   |
| 8:30 AM                                  | 2                      | -              | -       | -      | 0                   | 4    | 2           | 0          | 0    | 5     | 0                   | 4    | 20     | 109    | 0.40   |
| 8:45 AM                                  | -                      | 10             | 0       | 2      | 0                   | Ŷ    | -C-         | 11         | 15   | 15    | 0                   | ę    | 68     |        |        |
| 9:00 AM                                  | -                      | 2              | -       | -      | 0                   | -    | 7           | 4          | -    | 2     | 0                   | -    | 16     |        |        |
| 9:15 AM                                  | 1                      | 0              | 1       | 1      | 0                   | 2    | 0           | 0          | 0    | 0     | 0                   | 0    | 5      |        |        |
| Total                                    | 10                     | 13             | 4       | 5      | 0                   | 24   | 14          | 15         | 17   | 29    | 0                   | 8    |        |        |        |
| 8:15-9:15 AM                             | ~                      | 13             | e       | 4      | 0                   | 14   | 13          | 15         | 16   | 25    | 0                   | œ    | 118    |        |        |
|  | Monday August 29, 2022 | gust 29, 20.   | 22      |        |                     |      |             |            |      |       |                     |      |        |        |        |
| 2:30 PM                                  | 2                      | -              | 0       | L      | 0                   | 0    | 0           | 0          | 0    | -     | 0                   | 0    | 5      | 44     | 0.55   |
| 2:45 PM                                  | -                      | -              | 2       | -      | 0                   | ო    | 0           | 0          | 0    | 0     | 0                   | -    | 6      | 85     | 0.46   |
| 3:00 PM                                  | 0                      | 7              | 0       | 0      | 0                   | -    | 0           | 0          | 2    | 4     | 0                   | -    | 10     | 110    | 0.60   |
| 3:15 PM                                  | -                      | 4              | 0       | -      | 0                   | -    | -           | L          | 7    | 5     | 0                   | 4    | 20     |        |        |
| 3:30 PM                                  | 5                      | -              | 0       | 4      | 0                   | ო    | 4           | 11         | 12   | 2     | 0                   | 4    | 46     |        |        |
| 3:45 PM                                  | 2                      | 0              | 1       | 0      | 0                   | l    | 8           | 3          | 11   | 3     | 0                   | 5    | 34     |        |        |
| Total                                    | 11                     | 6              | e       | ~      | 0                   | 6    | 13          | 15         | 27   | 15    | 0                   | 15   |        |        |        |
| 3:00-4:00 PM                             | œ                      | ~              | -       | 5      | 0                   | 9    | 13          | 15         | 27   | 14    | 0                   | 14   | 110    |        |        |



S

POLICE

03/2017

06/2019

DATE: 10/2016

REVISION/DATE:

Disclaimer: This map is for analysis purposes only, It is not intended for navigation or location of infrastructure. The reliability of this map depends on the accuracy of its underlying data sources which have not been verified. Unauthorized duplication or distribution is prohibited.



#### **BICYCLE SAFETY RULES**

- 1. Always ride your bike in single file, in the same direction as traffic. Stay close to the right edge of the road.
- 2. Helmets are highly recommended for all bicyclists.
- Bicycle riders are expected to know and obey all 3. traffic regulations (signs, signals, pavement markings, etc.).
- Riding on sidewalks is legal except in the Central 4. Business District.
- Indicate your intention to slow down, stop, turn or 5. change lanes by using arm signals. This will prevent being cutoff.
- Be extra careful at intersections and railroad 6. crossings and when emerging from driveways, alleys or from behind parked cars. Establish eye contact with motorists who may not be looking for a cyclist.
- 7. Look out for motorists pulling into traffic. Keep a close 14. Make sure that the bike you ride is the right size watch for car doors opening suddenly in your path causing you to veer into traffic.
- Maintain your bicycle in sake working order. Check 8. brakes, tires and wheels.
- Wear bright colored and reflective clothing 9. when riding after dark. Make sure your bike has proper lights and reflectors before riding at night.
- 10. Stop before reaching a school bus which has s topped to load or unload passengers.
- 11. Be ready to yield the right-of-way to other moving vehicles.
- 12. Keep at least one hand on the handlebars at all times for control of the bicycle. Carry books, packages, or other items in a back pack or carrier.
- 13. Watch for poor road surfaces including drainage grates (tires may fall through grooves), pot holes, loose gravel, and unsafe shoulders.

- for you.
- 15. Right turns on red are permissible, after coming to complete stop, except where a sign is posted prohibiting such a turn. You must yield the right-of-way to other traffic lawfully using the intersection and to pedestrians.
- 16. Only one person should ride on a bicycle except on a tandem bicycle or with an attached child's seat if available.
- 17. Never hitch a ride with any motorized vehicle. 18. Do not wear headphones when riding a bicycle.

#### Source:

Portions of this list were excerpts from Illinois Bicycle Rules of The Road. Copies are available from the Arlington Heights Police Department, Village Hall, or Illinois Secretary of State, Woodfield Commons, Schaumburg, IL.



DOWNTOWN

#### Village of Arlington Heights

Thomas W. Hayes, Mayor 33 South Arlington Heights Rd Arlington Heights, IL 60005 (847) 368-5100

**Reporting Bicycle Accidents** Police Department (847) 368-5300 **Emergency 911** 

#### **Bicycle Advisory** Commission

Peter Szabo, Chairman James K. Daley Paul Danko Janet Harlow Alan Medsker Mitchell D. Polonsky Michael Walczak

Bike Map Information (847) 368-5250

## VILLAGE OF **ARLINGTON HEIGHTS BIKEWAYS MAP** 0 0.1250.25 0.5 0.75 1.25 Miles

| AM ROUTE |                      |                       | SOUTH - WESTGATE - DRYDEN - PIC |        | PARK |           |         |                                     |              |        |    |
|----------|----------------------|-----------------------|---------------------------------|--------|------|-----------|---------|-------------------------------------|--------------|--------|----|
|          | <u>1ST RC</u>        |                       |                                 | DRIVER |      |           |         | 2ND ROUTE                           |              | DRIVER | вι |
|          | 7:05-7:              |                       | DRIVER                          | SUB    | х    | BUS       | SUB     | 8:20-8:40AM                         |              | SUB    | SL |
|          | THOMAS A<br>THOMAS B |                       |                                 |        |      | 8<br>11   |         | IVY HILL A<br>IVY HILL D (600, 700) | 8:30<br>8:40 |        |    |
|          | THOMAS D             |                       |                                 |        |      | 19        |         | GREENBRIER A                        | 8:35         |        |    |
|          | THOMAS D             |                       |                                 |        |      | 22        |         | IVY HILL E (800,900)                | 8:40         |        |    |
|          | THOMAS E             |                       |                                 |        |      | 1909      |         | 101 THEE E (000,300)                | 0.40         |        |    |
|          | THOMAS F             |                       |                                 |        |      | 5         |         | IVY HILL B                          | 8:35         |        |    |
|          | THOMAS G             |                       |                                 |        |      | 21        |         | IVY HILL C-(400, 500)               |              |        |    |
|          | THOMAS H             | 7:10                  |                                 |        |      | 7GPT      |         | OLIVE A                             | 8:20         |        |    |
|          | THOMAS I             | 7:10                  |                                 |        |      | 3         |         | OLIVE-REC                           | 8:40         |        |    |
|          | THOMAS J             | 7:10                  |                                 |        |      | 9         |         | DRYDEN C                            | 8:15         |        |    |
|          | THOMAS K             |                       |                                 |        |      | 1908      |         |                                     |              |        |    |
|          | THOMAS L             | 7:10                  |                                 |        |      | 6GPT      |         |                                     |              |        |    |
|          |                      |                       |                                 |        |      |           |         |                                     |              |        |    |
|          | <u>1ST RC</u>        |                       | DRIVER                          | DRIVER | v    | DUG       |         | 2ND ROUTE                           |              | DRIVER | BL |
|          | 7:05-7:<br>SOUTH A   | 7:10                  | DRIVER                          | SUB    | Х    | BUS<br>16 | SUB     | 8:15-8:40AM                         |              | SUB    | SL |
|          | SOUTH A              | 7:10                  |                                 |        |      | 4         |         | DRYDEN B                            | 8:15         |        |    |
|          | SOUTH C              | 7:10                  |                                 |        |      | 58        |         | DRIDENB                             | 0.15         |        |    |
|          | SOUTH D              | 7:20                  |                                 |        |      | 24        |         |                                     |              |        |    |
|          | SOUTH E              | 7:20                  |                                 |        |      | 1         |         |                                     |              |        |    |
|          | SOUTH F              | 7:05                  |                                 |        |      | 2         |         | WESTGATE A                          | 8:20         |        |    |
|          | SOUTH G              | 7:15                  |                                 |        |      | 20        |         |                                     |              |        |    |
|          | SOUTH H              | 7:15                  |                                 |        |      | 1915      |         |                                     |              |        |    |
|          | SOUTH I              | 7:15                  |                                 |        |      | 59        |         | DRYDEN A                            | 8:35         |        |    |
|          | SOUTH J              | 7:10                  |                                 |        |      | 173       |         | DRYDEN D                            | 8:15         |        |    |
|          | SOUTH K              | 7:15                  |                                 |        |      | 12        |         | WESTGATE-PIONEER                    | 8:35         |        |    |
| PM ROUTE | THOMAS - IV          |                       |                                 |        |      |           |         |                                     | 5/31/2       | 0022   |    |
| TMINOUTE | <u>1ST RC</u>        |                       |                                 | DRIVER |      |           | BUS     | 2ND ROUTE                           | 5/51/2       | DRIVER | вι |
|          | 2:45                 |                       | DRIVER                          | SUB    | х    | BUS       | SUB     | 3:35 PM                             |              | SUB    | SL |
|          | THOMAS A             |                       |                                 |        |      | 8         |         | IVY HILL A                          |              |        |    |
|          | THOMAS B             | 2:40                  |                                 |        |      | 11        |         | IVY HILL D (600, 700)               |              |        |    |
|          | THOMAS C             | 2:40                  |                                 |        |      | 19        |         | GREENBRIER A                        |              |        |    |
|          | THOMAS D             |                       |                                 |        |      | 22        |         | IVY HILL E (800,900)                |              |        |    |
|          | THOMAS E             |                       |                                 |        |      | 1909      |         |                                     |              |        |    |
|          | THOMAS F             |                       |                                 |        |      | 5         |         | IVY HILL B                          |              |        |    |
|          | THOMAS G             |                       |                                 |        |      | 21        |         | IVY HILL C (400,500)                |              |        |    |
|          | THOMAS H<br>THOMAS I | 2:40                  |                                 |        |      | 7GРТ<br>3 |         | OLIVE A<br>OLIVE-REC                | 3:45         |        |    |
|          | THOMAS I             |                       |                                 |        |      | 9         |         | DRYDEN C                            | 3:45         |        |    |
|          | THOMAS 5             |                       |                                 |        |      | 9<br>1908 |         | ACTIVITY EAST THOMAS                |              |        |    |
|          | THOMAS K             |                       |                                 |        |      | 6GPT      |         | ACTIVITY WEST                       |              |        |    |
| PM ROUTE |                      |                       | PIONEER - OLIVE - REC-PARK      |        |      | 0011      |         |                                     |              |        |    |
| TMINOUTE | <u>1ST RC</u>        |                       | IONEER - OLIVE - REG-PARK       | DRIVER |      |           |         | 2ND ROUTE                           |              | DRIVER | вι |
| PUNCH    | 2:45                 |                       | DRIVER                          | SUB    | х    | BUS       | SUB     | 3:35 PM                             |              | SUB    | SL |
|          | SOUTH A              | 2:40                  |                                 |        |      | 16        |         | ACTIVITY SOUTH                      |              |        |    |
|          | SOUTH B              | 2:40                  |                                 |        |      | 4         |         | DRYDEN B                            |              |        |    |
|          | SOUTH C              | 2:40                  |                                 |        |      | 58        |         |                                     |              |        |    |
|          | SOUTH D              | 2:40                  |                                 |        |      | 24        |         | ACTIVITY NORTH                      |              |        |    |
|          | SOUTH E              | 2:40<br>2:40          |                                 |        |      | 1<br>2    |         | ACTIVITY NORTHEAST                  |              |        |    |
|          | SOUTH F<br>SOUTH G   | 2:40                  |                                 |        |      | 20        |         | WESIGATEA                           |              |        |    |
|          | SOUTH G              | 2:40                  |                                 |        |      | 1915      |         |                                     |              |        |    |
|          | SOUTHI               | 2:40                  |                                 |        |      | 59        |         | DRYDEN A                            |              |        |    |
|          | SOUTH J              | 2:40                  |                                 |        |      | 173       |         | DRYDEN D                            |              |        |    |
|          | SOUTH K              | 2:40                  |                                 |        |      | 12        |         | WESTGATE-PIONEER                    | 3:50         |        |    |
|          |                      |                       |                                 |        |      |           |         |                                     |              |        |    |
| MIDDAY F |                      | RYDEN - IVY HILL - OL | LIVE - WESTGATE -               |        |      |           | DATE:   |                                     | 5/31/2       |        |    |
|          | K RO                 |                       |                                 | DRIVER |      |           | <b></b> | L ROUTE                             |              | DRIVER | BL |
| PUNCH    | 11:45                |                       | DRIVER                          | SUB    | х    | BUS       | SUB     | 12:20 - 12:40 PM                    |              | SUB    | SL |
|          | DRYDEN               |                       |                                 |        |      | 21        |         | DRYDEN 31L 12:20                    |              |        |    |
| 11:15 AM | DRYDEN               | K31                   |                                 |        |      | 1909      |         |                                     |              |        |    |
| 11:15 AM | IVY HILL             | K37                   |                                 |        |      | 11        |         | IVY HILL 37L 12:30                  |              |        |    |
| 11:15 AM | OLIVE                | K34                   |                                 |        |      | 8         |         | OLIVE 34L 12:40                     |              |        |    |
| 11:15 AM |                      |                       |                                 |        |      | 22        |         | WESTGATE 32L 12:40                  |              |        |    |
|          |                      |                       |                                 |        |      |           |         |                                     |              |        |    |

#### NOTES.-

| Taxi at Schools 21-22              | AM | MID-DAY | PM |
|------------------------------------|----|---------|----|
| Dryden Elementary School           | -  | -       | -  |
| Greenbrier Elementary School       | 6  | 11      | 6  |
| Ivy Hill Elementary School         | 1  |         | 1  |
| Olive Mary Stitt Elementary School | -  | -       | -  |
| Westgate Elementary School         | 8  | 3       | 8  |
| Windsor Elementary School          | 6  | 1       | 6  |
| Thomas Middle School               | 6  | 1       | 5  |
| South Middle School                | 4  | 1       | 4  |
|                                    |    |         |    |
| Total                              | 31 | 17      | 30 |

# Crossing Guard Locations

| Location<br>Arlington & Olive | <b>AM</b><br>7:15-9:00 | <b>PM</b><br>2:25-4:10 | <b>K-5</b><br>Olive | Middle School | Parochial<br>St. Peters |
|-------------------------------|------------------------|------------------------|---------------------|---------------|-------------------------|
| Arlington & Park              | 7:10-8:25              | 2:45-3:30              |                     | South         | OLW                     |
| Arlington & Thomas            | 7:15-7:45              | 2:45-3:15              |                     | Thomas        |                         |
| Arlington @ St. James         | 7:45-8:30              | 3:15-4:00              |                     |               | St. James               |
| Belmont & Thomas              | 7:15-7:45              | 2:30-4:00              | Olive               | Thomas        | St. James, St. Peter    |
|                               | 8:15-9:00              |                        |                     |               |                         |
| Dryden & Miner                | 8:05-9:05              | 3:40-4:10              | Windsor             |               | St. James               |
| Dryden & Rockwell             | 8:35-9:05              | 3:35-4:05              | Dryden              |               |                         |
| Dwyer & Grove                 | 8:35-9:05              | 3:35-4:05              | Westgate            |               |                         |
| Dwyer & Harvard               | 8:35-9:05              | 3:35-4:05              | Westgate            |               |                         |
| Kennicott & Maude             | 8:35-9:05              | 3:35-4:05              | Patton              |               |                         |
| Maude & Patton                | 8:35-9:05              | 3:35-4:05              | Patton              |               |                         |
| Olive & Belmont               | 8:35-9:05              | 3:35-4:05              | Olive               |               |                         |
| Olive & Douglas               | 8:35-9:05              | 3:35-4:05              | Olive               |               |                         |
| Park & Highland               | 7:15-7:45              | 2:45-3:15              |                     | South         |                         |
| Ridge & Park                  | 7:55-8:25              | 2:55-3:25              |                     |               | OLW                     |
| Thomas & Harvard              | 8:35-9:05              | 3:35-4:05              | Patton              |               |                         |
| Windsor & Kensington          | 8:25-9:10              | 3:30-4:15              | Windsor             |               |                         |
| Windsor & Miner               | 8:20-9:05              | 3:35-4:05              | Windsor             |               |                         |



# Elementary School (520)

| Vehicle Trip Ends vs:<br>On a: | Students<br>Weekday,<br>Peak Hour of Adjacent Street Traffic,<br>One Hour Between 7 and 9 a.m. |
|--------------------------------|--|
| Setting/Location:              | General Urban/Suburban   |
| Number of Studies:             | 44   |
| Avg. Num. of Students:         |  |
| Directional Distribution:      | 54% entering, 46% exiting  |
|                                |  |

#### **Vehicle Trip Generation per Student**

| Average Rate | Range of Rates | Standard Deviation |
|--------------|----------------|--------------------|
| 0.74         | 0.38 - 1.47    | 0.25               |

#### **Data Plot and Equation**



# Elementary School (520)

| Vehicle Trip Ends vs:<br>On a: | Students<br>Weekday,<br>PM Peak Hour of Generator |
|--------------------------------|---|
| Setting/Location:              | General Urban/Suburban                            |
| Number of Studies:             | 54  |
| Avg. Num. of Students:         | 608   |
| Directional Distribution:      | 46% entering, 54% exiting                         |
|                                |   |

#### Vehicle Trip Generation per Student

| Average Rate | Range of Rates | Standard Deviation |
|--------------|----------------|--------------------|
| 0.45         | 0.21 - 1.30    | 0.19               |

#### **Data Plot and Equation**


# Elementary School (520)

|   | Weekday (Monday - Friday)                    |
|---|--|
| Setting/Location:<br>Peak Period of Parking Demand: | General Urban/Suburban<br>8:00 a.m 3:00 p.m. |
| Number of Studies:<br>Avg. Num. of Students:        | 10   |

#### **Peak Period Parking Demand per Student**

| Average Rate | Range of Rates | 33rd / 85th<br>Percentile | 95% Confidence<br>Interval | Standard Deviation<br>(Coeff. of Variation) |
|--------------|----------------|---------------------------|----------------------------|---|
| 0.13         | 0.06 - 0.24    | 0.11 / 0.20               | ***                        | 0.05 (38%)                                  |

#### **Data Plot and Equation**



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# Elementary School (520)

| Vehicle Trip Ends vs:<br>On a: | Students<br>Weekday,<br>Peak Hour of Adjacent Street Traffic,<br>One Hour Between 7 and 9 a.m. |
|--------------------------------|--|
| Setting/Location:              | General Urban/Suburban   |
| Number of Studies:             | 44   |
| Avg. Num. of Students:         | 575  |
| Directional Distribution:      | 54% entering, 46% exiting  |
|                                |  |

#### **Vehicle Trip Generation per Student**

| Average Rate | Range of Rates | Standard Deviation |
|--------------|----------------|--------------------|
| 0.74         | 0.38 - 1.47    | 0.25               |

### **Data Plot and Equation**



# Elementary School (520)

| Vehicle Trip Ends vs:<br>On a: | Students<br>Weekday,<br>PM Peak Hour of Generator |
|--------------------------------|---|
| Setting/Location:              | General Urban/Suburban                            |
| Number of Studies:             | 54  |
| Avg. Num. of Students:         | 608   |
| Directional Distribution:      | 46% entering, 54% exiting                         |
|                                |   |

### Vehicle Trip Generation per Student

| Average Rate | Range of Rates | Standard Deviation |
|--------------|----------------|--------------------|
| 0.45         | 0.21 - 1.30    | 0.19               |

### **Data Plot and Equation**



# Elementary School (520)

|  | Weekday (Monday - Friday)<br>General Urban/Suburban |
|--|---|
| Number of Studies:<br>Avg. Num. of Students: | 10  |

#### **Peak Period Parking Demand per Student**

| Average Rate | Range of Rates | 33rd / 85th<br>Percentile | 95% Confidence<br>Interval | Standard Deviation<br>(Coeff. of Variation) |
|--------------|----------------|---------------------------|----------------------------|---|
| 0.13         | 0.06 - 0.24    | 0.11 / 0.20               | ***                        | 0.05 (38%)                                  |

### **Data Plot and Equation**



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| HCS All-Way Stop Control Report |                 |  |                   |  |  |  |  |
|---------------------------------|-----------------|--|-------------------|--|--|--|--|
| General Information             |                 | Site Information                       |                   |  |  |  |  |
| Analyst                         | AG              | Intersection                           | Grove and Dwyer   |  |  |  |  |
| Agency/Co.                      | Eriksson        | Jurisdiction                           | Arlington Heights |  |  |  |  |
| Date Performed                  | 9/6/2022        | 9/6/2022 East/West Street Grove Street |                   |  |  |  |  |
| Analysis Year                   | 2022            | North/South Street                     | Dwyer Avenue      |  |  |  |  |
| Analysis Time Period (hrs)      | 0.25            | 0.25 Peak Hour Factor 0.68             |                   |  |  |  |  |
| Time Analyzed                   | AM Peak         | AM Peak                                |                   |  |  |  |  |
| Project Description             | Westgate School | Westgate School                        |                   |  |  |  |  |
| lanos                           |                 |  |                   |  |  |  |  |





#### Vehicle Volume and Adjustments

| Approach                                |           | Eastbound |    |       | Westbound | k  | 1     | Northboun | d  | 9     | Southboun | d  |
|---|-----------|-----------|----|-------|-----------|----|-------|-----------|----|-------|-----------|----|
| Movement                                | L         | Т         | R  | L     | Т         | R  | L     | Т         | R  | L     | Т         | R  |
| Volume                                  | 6         | 43        | 27 | 42    | 53        | 4  | 8     | 31        | 8  | 9     | 64        | 3  |
| % Thrus in Shared Lane                  |           |           |    |       |           |    |       |           |    |       |           |    |
| Lane                                    | L1        | L2        | L3 | L1    | L2        | L3 | L1    | L2        | L3 | L1    | L2        | L3 |
| Configuration                           | LTR       |           |    | LTR   |           |    | LTR   |           |    | LTR   |           |    |
| Flow Rate, v (veh/h)                    | 112       |           |    | 146   |           |    | 69    |           |    | 112   |           |    |
| Percent Heavy Vehicles                  | 0         |           |    | 0     |           |    | 0     |           |    | 0     |           |    |
| Departure Headway and S                 | ervice Ti | me        |    |       |           |    |       |           |    |       |           |    |
| Initial Departure Headway, hd (s)       | 3.20      |           |    | 3.20  |           |    | 3.20  |           |    | 3.20  |           |    |
| Initial Degree of Utilization, x        | 0.099     |           |    | 0.129 |           |    | 0.061 |           |    | 0.099 |           |    |
| Final Departure Headway, hd (s)         | 4.31      |           |    | 4.52  |           |    | 4.57  |           |    | 4.58  |           |    |
| Final Degree of Utilization, x          | 0.134     |           |    | 0.183 |           |    | 0.088 |           |    | 0.142 |           |    |
| Move-Up Time, m (s)                     | 2.0       |           |    | 2.0   |           |    | 2.0   |           |    | 2.0   |           |    |
| Service Time, ts (s)                    | 2.31      |           |    | 2.52  |           |    | 2.57  |           |    | 2.58  |           |    |
| Capacity, Delay and Level               | of Servic | e         |    |       |           |    |       |           |    |       |           |    |
| Flow Rate, v (veh/h)                    | 112       |           |    | 146   |           |    | 69    |           |    | 112   |           |    |
| Capacity                                | 836       |           |    | 796   |           |    | 788   |           |    | 786   |           |    |
| 95% Queue Length, Q <sub>95</sub> (veh) | 0.5       |           |    | 0.7   |           |    | 0.3   |           |    | 0.5   |           |    |
| Control Delay (s/veh)                   | 8.0       |           |    | 8.5   |           |    | 8.0   |           |    | 8.3   |           |    |
| Level of Service, LOS                   | A         |           |    | А     |           |    | А     |           |    | A     |           |    |
| Approach Delay (s/veh)                  |           | 8.0 8.5   |    | 8.0   |           |    | 8.3   |           |    |       |           |    |
| Approach LOS                            |           | А         |    |       | А         |    | A     |           |    |       | А         |    |
| Intersection Delay, s/veh   LOS         |           |           | 8  | .3    |           |    |       |           |    | A     |           |    |

|   |           | HCS        | All-W | ay Sto | p Con                | trol Re | eport     |            |             |       |               |    |
|---|-----------|------------|-------|--------|----------------------|---------|-----------|------------|-------------|-------|---------------|----|
| General and Site Information            |           |            |       |        | Lanes                |         |           |            |             |       |               |    |
| Analyst                                 | AG        |            |       |        |                      |         |           |            |             |       |               |    |
| Agency/Co.                              | Erikssor  | ı          |       |        |                      |         |           |            |             |       |               |    |
| Date Performed                          | 9/6/202   | 2          |       |        | 1                    |         |           |            | *           |       |               |    |
| Analysis Year                           | 2028      |            |       |        |                      | _*      | a A       |            |             |       | K             |    |
| Analysis Time Period (hrs)              | 0.25      |            |       |        | 1                    |         |           |            |             |       | <u> </u>      |    |
| Time Analyzed                           | AM Pea    | k          |       |        |                      | *       | 1         |            |             | *     | <b>←</b><br>ĸ |    |
| Project Description                     | Westga    | te School  |       |        | 1                    |         | <b>-T</b> |            |             | Y     |               |    |
| Intersection                            | Grove a   | nd Dwyer   |       |        |                      |         |           |            |             |       | *             |    |
| Jurisdiction                            | Arlingto  | on Heights |       |        | 1                    | ×<br>   |           |            |             |       |               |    |
| East/West Street                        | Grove S   | treet      |       |        |                      |         |           |            | •           |       | -             |    |
| North/South Street                      | Dwyer A   | Avenue     |       |        | 1                    |         | ካ         | <u> </u>   | ╵<br>╱╴╋╴╊╸ | · ~   |               |    |
| Peak Hour Factor                        | 0.68      |            |       |        |                      |         | 1         |            |             |       |               |    |
| Turning Movement Dema                   | nd Volum  | nes        |       |        |                      |         |           |            |             |       |               |    |
| Approach                                |           | Eastbound  | l     |        | Westbound            | d       | 1         | Northboun  | d           | 9     | Southboun     | d  |
| Movement                                | L         | Т          | R     | L      | Т                    | R       | L         | Т          | R           | L     | Т             | R  |
| Volume (veh/h)                          | 6         | 44         | 6     | 49     | 56                   | 4       | 13        | 25         | 5           | 9     | 74            | 3  |
| % Thrus in Shared Lane                  |           |            |       |        |                      |         |           |            |             |       |               |    |
| Lane Flow Rate and Adjust               | tments    |            |       |        |                      |         |           |            |             |       |               |    |
| Approach                                |           | Eastbound  | l     |        | Westbound Northbound |         |           | Southbound |             |       |               |    |
| Lane                                    | L1        | L2         | L3    | L1     | L2                   | L3      | L1        | L2         | L3          | L1    | L2            | L3 |
| Configuration                           | LTR       |            |       | LTR    |                      |         | LTR       |            |             | LTR   |               |    |
| Flow Rate, v (veh/h)                    | 82        |            |       | 160    |                      |         | 63        |            |             | 126   |               |    |
| Percent Heavy Vehicles                  | 0         |            |       | 0      |                      |         | 0         |            |             | 0     |               |    |
| Initial Departure Headway, hd (s)       | 3.20      |            |       | 3.20   |                      |         | 3.20      |            |             | 3.20  |               |    |
| Initial Degree of Utilization, x        | 0.073     |            |       | 0.142  |                      |         | 0.056     |            |             | 0.112 |               |    |
| Final Departure Headway, hd (s)         | 4.50      |            |       | 4.52   |                      |         | 4.62      |            |             | 4.55  |               |    |
| Final Degree of Utilization, x          | 0.103     |            |       | 0.201  |                      |         | 0.081     |            |             | 0.160 |               |    |
| Move-Up Time, m (s)                     | 2.0       |            |       | 2.0    |                      |         | 2.0       |            |             | 2.0   |               |    |
| Service Time, t <sub>s</sub> (s)        | 2.50      |            |       | 2.52   |                      |         | 2.62      |            |             | 2.55  |               |    |
| Capacity, Delay and Level               | of Servic | e          |       |        |                      |         |           |            |             |       |               |    |
| Approach                                |           | Eastbound  | 1     |        | Westbound            | d       | 1         | Northboun  | d           | 9     | Southboun     | d  |
| Lane                                    | L1        | L2         | L3    | L1     | L2                   | L3      | L1        | L2         | L3          | L1    | L2            | L3 |
| Configuration                           | LTR       |            |       | LTR    |                      |         | LTR       |            |             | LTR   |               |    |
| Flow Rate, v (veh/h)                    | 82        |            |       | 160    |                      |         | 63        |            |             | 126   |               |    |
| Capacity (veh/h)                        | 800       |            |       | 796    |                      |         | 779       |            |             | 791   |               |    |
| 95% Queue Length, Q <sub>95</sub> (veh) | 0.3       |            |       | 0.7    |                      |         | 0.3       |            |             | 0.6   |               |    |
| Control Delay (s/veh)                   | 8.0       |            |       | 8.7    |                      |         | 8.0       |            |             | 8.4   |               |    |
| Level of Service, LOS                   | A         |            |       | А      |                      |         | А         |            |             | А     |               |    |
| Approach Delay (s/veh)   LOS            | 8.0       |            | A     | 8.7    |                      | A       | 8.0       |            | A           | 8.4   |               | A  |
| Intersection Delay (s/veh)   LOS        |           |            | 8     | .4     |                      |         |           |            | /           | 4     |               |    |

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| HCS All-Way Stop Control Report |                 |  |                   |  |  |  |  |
|---------------------------------|-----------------|--|-------------------|--|--|--|--|
| General Information             |                 | Site Information                       |                   |  |  |  |  |
| Analyst                         | AG              | Intersection                           | Grove and Dwyer   |  |  |  |  |
| Agency/Co.                      | Eriksson        | Jurisdiction                           | Arlington Heights |  |  |  |  |
| Date Performed                  | 9/6/2022        | 9/6/2022 East/West Street Grove Street |                   |  |  |  |  |
| Analysis Year                   | 2022            | North/South Street                     | Dwyer Avenue      |  |  |  |  |
| Analysis Time Period (hrs)      | 0.25            | 0.25 Peak Hour Factor 0.68             |                   |  |  |  |  |
| Time Analyzed                   | AM Peak         | AM Peak                                |                   |  |  |  |  |
| Project Description             | Westgate School | Westgate School                        |                   |  |  |  |  |
| lanos                           |                 |  |                   |  |  |  |  |

#### Lanes



#### Vehicle Volume and Adjustments

| venicle volume and Adjust               | inents    |           |    |       |           |    |       |           |    |       |           |    |
|---|-----------|-----------|----|-------|-----------|----|-------|-----------|----|-------|-----------|----|
| Approach                                |           | Eastbound |    |       | Westbound | b  | 1     | Northboun | d  | 9     | Southboun | d  |
| Movement                                | L         | Т         | R  | L     | Т         | R  | L     | Т         | R  | L     | Т         | R  |
| Volume                                  | 7         | 68        | 19 | 54    | 61        | 7  | 2     | 32        | 17 | 13    | 65        | 7  |
| % Thrus in Shared Lane                  |           |           |    |       |           |    |       |           |    |       |           |    |
| Lane                                    | L1        | L2        | L3 | L1    | L2        | L3 | L1    | L2        | L3 | L1    | L2        | L3 |
| Configuration                           | LTR       |           |    | LTR   |           |    | LTR   |           |    | LTR   |           |    |
| Flow Rate, v (veh/h)                    | 138       |           |    | 179   |           |    | 75    |           |    | 125   |           |    |
| Percent Heavy Vehicles                  | 0         |           |    | 0     |           |    | 0     |           |    | 0     |           |    |
| Departure Headway and Se                | ervice Ti | me        |    |       |           |    |       |           |    |       |           |    |
| Initial Departure Headway, hd (s)       | 3.20      |           |    | 3.20  |           |    | 3.20  |           |    | 3.20  |           |    |
| Initial Degree of Utilization, x        | 0.123     |           |    | 0.159 |           |    | 0.067 |           |    | 0.111 |           |    |
| Final Departure Headway, hd (s)         | 4.50      |           |    | 4.61  |           |    | 4.63  |           |    | 4.73  |           |    |
| Final Degree of Utilization, x          | 0.173     |           |    | 0.230 |           |    | 0.096 |           |    | 0.164 |           |    |
| Move-Up Time, m (s)                     | 2.0       |           |    | 2.0   |           |    | 2.0   |           |    | 2.0   |           |    |
| Service Time, ts (s)                    | 2.50      |           |    | 2.61  |           |    | 2.63  |           |    | 2.73  |           |    |
| Capacity, Delay and Level o             | f Servic  | e         |    |       |           |    |       |           |    |       |           |    |
| Flow Rate, v (veh/h)                    | 138       |           |    | 179   |           |    | 75    |           |    | 125   |           |    |
| Capacity                                | 800       |           |    | 781   |           |    | 778   |           |    | 761   |           |    |
| 95% Queue Length, Q <sub>95</sub> (veh) | 0.6       |           |    | 0.9   |           |    | 0.3   |           |    | 0.6   |           |    |
| Control Delay (s/veh)                   | 8.4       |           |    | 9.0   |           |    | 8.1   |           |    | 8.7   |           |    |
| Level of Service, LOS                   | A         |           |    | А     |           |    | А     |           |    | А     |           |    |
| Approach Delay (s/veh)                  |           | 8.4       |    |       | 9.0       |    |       | 8.1       |    |       | 8.7       |    |
| Approach LOS                            |           | А         |    |       | А         |    |       | А         |    |       | А         |    |
| Intersection Delay, s/veh   LOS         |           |           | 8  | .6    |           |    |       |           |    | A     |           |    |

|   |           | HCS       | All-W | ay Sto | p Con     | trol Re | eport |               |            |          |               |    |
|---|-----------|-----------|-------|--------|-----------|---------|-------|---------------|------------|----------|---------------|----|
| General and Site Informat               | ion       |           |       |        | Lanes     |         |       |               |            |          |               |    |
| Analyst                                 | AG        |           |       |        |           |         |       |               |            |          |               |    |
| Agency/Co.                              | Eriksson  | l         |       |        |           |         |       | A TO SHORE NO | 4 + 1      | L.       |               |    |
| Date Performed                          | 9/6/202   | 2         |       |        |           | _       |       | -             | >          |          | _             |    |
| Analysis Year                           | 2028      |           |       |        |           | _*      |       |               |            |          | K             |    |
| Analysis Time Period (hrs)              | 0.25      |           |       |        |           |         |       |               |            |          | <u>▲∽</u>     |    |
| Time Analyzed                           | PM Peal   | ĸ         |       |        |           | *       |       |               |            | <u>}</u> | <b>♦</b><br>R |    |
| Project Description                     | Westgat   | te School |       |        |           |         | *     |               |            |          | <u>∧</u>      |    |
| Intersection                            | Grove a   | nd Dwyer  |       |        |           |         |       |               |            |          | *             |    |
| Jurisdiction                            | Arlingto  | n Heights |       |        |           |         |       |               |            |          |               |    |
| East/West Street                        | Grove S   | treet     |       |        |           |         |       | ÷             | 1          |          |               |    |
| North/South Street                      | Dwyer A   | venue     |       |        |           |         | ካ     | <b>↑ ↑ *</b>  | ,<br>* † † |          |               |    |
| Peak Hour Factor                        | 0.76      |           |       |        |           |         |       |               |            |          |               |    |
| Turning Movement Dema                   | nd Volum  | nes       |       |        |           |         |       |               |            |          |               |    |
| Approach                                |           | Eastbound | 1     |        | Westbound | d       | 1     | Northboun     | d          | 9        | Southbour     | ıd |
| Movement                                | L         | Т         | R     | L      | Т         | R       | L     | Т             | R          | L        | Т             | R  |
| Volume (veh/h)                          | 7         | 70        | 5     | 60     | 63        | 7       | 9     | 30            | 15         | 13       | 72            | 7  |
| % Thrus in Shared Lane                  |           |           |       |        |           |         |       |               |            |          |               |    |
| Lane Flow Rate and Adjust               | tments    |           |       |        |           |         |       |               |            |          |               |    |
| Approach                                |           | Eastbound | 1     |        | Westbound | d       | 1     | Northboun     | d          | 9        | Southbour     | ıd |
| Lane                                    | L1        | L2        | L3    | L1     | L2        | L3      | L1    | L2            | L3         | L1       | L2            | L3 |
| Configuration                           | LTR       |           |       | LTR    |           |         | LTR   |               |            | LTR      |               |    |
| Flow Rate, v (veh/h)                    | 108       |           |       | 171    |           |         | 71    |               |            | 121      |               |    |
| Percent Heavy Vehicles                  | 0         |           |       | 0      |           |         | 0     |               |            | 0        |               |    |
| Initial Departure Headway, hd (s)       | 3.20      |           |       | 3.20   |           |         | 3.20  |               |            | 3.20     |               |    |
| Initial Degree of Utilization, x        | 0.096     |           |       | 0.152  |           |         | 0.063 |               |            | 0.108    |               |    |
| Final Departure Headway, hd (s)         | 4.55      |           |       | 4.55   |           |         | 4.58  |               |            | 4.63     |               |    |
| Final Degree of Utilization, x          | 0.136     |           |       | 0.216  |           |         | 0.090 |               |            | 0.156    |               |    |
| Move-Up Time, m (s)                     | 2.0       |           |       | 2.0    |           |         | 2.0   |               |            | 2.0      |               |    |
| Service Time, $t_s$ (s)                 | 2.55      |           |       | 2.55   |           |         | 2.58  |               |            | 2.63     |               |    |
| Capacity, Delay and Level               | of Servic | e         |       |        |           |         |       |               |            |          |               |    |
| Approach                                |           | Eastbound | 1     |        | Westbound | d       | 1     | Northboun     | d          | 9        | Southbour     | ıd |
| Lane                                    | L1        | L2        | L3    | L1     | L2        | L3      | L1    | L2            | L3         | L1       | L2            | L3 |
| Configuration                           | LTR       |           |       | LTR    |           |         | LTR   |               |            | LTR      |               |    |
| Flow Rate, v (veh/h)                    | 108       |           |       | 171    |           |         | 71    |               |            | 121      |               |    |
| Capacity (veh/h)                        | 791       |           |       | 791    |           |         | 786   |               |            | 777      |               |    |
| 95% Queue Length, Q <sub>95</sub> (veh) | 0.5       |           |       | 0.8    |           |         | 0.3   |               |            | 0.5      |               |    |
| Control Delay (s/veh)                   | 8.3       |           |       | 8.8    |           |         | 8.0   |               |            | 8.5      |               |    |
| Level of Service, LOS                   | Α         |           |       | A      |           |         | A     |               |            | A        |               |    |
| Approach Delay (s/veh)   LOS            | 8.3       |           | A     | 8.8    |           | A       | 8.0   |               | A          | 8.5      |               | A  |

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|   |         |                           |                    |                   |   |                             | <b>C</b>             |                            |          |                        |                               |              |       |                        |                                |                            |
|---|---------|---------------------------|--------------------|-------------------|---|-----------------------------|----------------------|----------------------------|----------|------------------------|-------------------------------|--------------|-------|------------------------|--------------------------------|----------------------------|
| General Information   |         |                           |                    |                   |   |                             | Site I               | Inforr                     | natio    | า                      |                               |              |       |                        |                                |                            |
| Analyst   | AG      |                           |                    |                   |   |                             | Inters               | ection                     |          |                        | Grove                         | e and Ha     | rvard |                        |                                |                            |
| Agency/Co.  | Erikss  | on                        |                    |                   |   |                             | Jurisd               | iction                     |          |                        | Arling                        | ton Heig     | ghts  |                        |                                |                            |
| Date Performed  | 9/6/2   | 022                       |                    |                   |   |                             | East/V               | West Stre                  | eet      |                        | Grove                         | Street       |       |                        |                                |                            |
| Analysis Year   | 2022    |                           |                    |                   |   |                             | North                | /South S                   | Street   |                        | Harva                         | rd Aven      | ue    |                        |                                |                            |
| Time Analyzed   | AM P    | eak                       |                    |                   |   |                             | Peak I               | Hour Fac                   | tor      |                        | 0.43                          |              |       |                        |                                |                            |
| Intersection Orientation  | East-   | West                      |                    |                   |   |                             | Analy                | sis Time                   | Period ( | hrs)                   | 0.25                          |              |       |                        |                                |                            |
| Project Description   | West    | gate Sch                  | ool                |                   |   |                             |                      |                            |          |                        |                               |              |       |                        |                                |                            |
| Lanes   |         |                           |                    |                   |   |                             |                      |                            |          |                        |                               |              |       |                        |                                |                            |
|   |         |                           |                    | →<br>→            |   |                             |                      | ት<br>ት<br>ት<br>ት<br>ት<br>ት |          |                        |                               |              |       |                        |                                |                            |
| Vehicle Volumes and Ac  | diustme | nts                       |                    | 1 4 4 7 1 A 4 7 1 |   | ∳<br>بربان<br>or Street: Ea | st-West              | 1<br>1<br>1                |          |                        |                               |              |       |                        |                                |                            |
| Vehicle Volumes and Ac  | djustme |                           | pound              | 1¥7               |   | or Street: Ea               |                      | 1 L L                      |          | North                  | bound                         |              |       | South                  | bound                          |                            |
| Approach  | 1       | Eastb                     | pound              |                   | Majo                                      | or Street: Ea               | bound                | G                          | U        |                        | bound                         | R            | U     |                        | bound                          | R                          |
|   | djustme |                           | pound<br>T<br>2    | R<br>3            |   | or Street: Ea               |                      | R<br>6                     | U        | North<br>L<br>7        | bound<br>T<br>8               | R<br>9       | U     | South<br>L<br>10       | bound<br>T<br>11               |                            |
| Approach<br>Movement  | U       | Eastb                     | Т                  | R                 | Majo                                      | Westl                       | oound<br>T           | R                          | U        | L                      | Т                             |              | U     | L                      | Т                              | 12                         |
| Approach<br>Movement<br>Priority  | U<br>1U | Eastb<br>L<br>1           | T<br>2             | R<br>3            | U<br>4U                                   | Westl                       | oound<br>T<br>5      | R<br>6                     | U        | L<br>7                 | Т<br>8                        | 9            | U     | L<br>10                | T<br>11                        | 12                         |
| Approach<br>Movement<br>Priority<br>Number of Lanes   | U<br>1U | Eastb<br>L<br>1           | T<br>2<br>1        | R<br>3            | U<br>4U                                   | Westl                       | Dound<br>T<br>5<br>1 | R<br>6                     | U        | L<br>7                 | T<br>8<br>1                   | 9            | U     | L<br>10                | T<br>11<br>1                   | 12                         |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration  | U<br>1U | Eastb<br>L<br>1<br>0      | T<br>2<br>1<br>LTR | R<br>3<br>0       | U<br>4U                                   | Westl<br>L<br>4<br>0        | T<br>5<br>1<br>LTR   | R<br>6<br>0                | U        | L<br>7<br>0            | T<br>8<br>1<br>LTR            | 9<br>0       | U     | L<br>10<br>0           | T<br>11<br>1<br>LTR            | 12<br>0<br>7               |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)  | U<br>1U | Eastb<br>L<br>1<br>0      | T<br>2<br>1<br>LTR | R<br>3<br>0       | U<br>4U                                   | Westl<br>L<br>4<br>0<br>14  | T<br>5<br>1<br>LTR   | R<br>6<br>0                | U        | L<br>7<br>0<br>16      | T<br>8<br>1<br>LTR<br>15      | 9<br>0<br>13 | U     | L<br>10<br>0<br>3      | T<br>11<br>1<br>LTR<br>13      | R<br>122<br>00<br>77<br>00 |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)  | U<br>1U | Eastb<br>L<br>1<br>0      | T<br>2<br>1<br>LTR | R<br>3<br>0       | U<br>4U                                   | Westl<br>L<br>4<br>0<br>14  | T<br>5<br>1<br>LTR   | R<br>6<br>0                |          | L<br>7<br>0<br>16<br>0 | T<br>8<br>1<br>LTR<br>15      | 9<br>0<br>13 | U     | L<br>10<br>0<br>3<br>0 | T<br>11<br>1<br>LTR<br>13      | 12<br>0<br>7               |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked   | U<br>1U | Eastb<br>L<br>1<br>0      | T<br>2<br>1<br>LTR | R<br>3<br>0       | U<br>4U                                   | Westl<br>L<br>4<br>0<br>14  | T<br>5<br>1<br>LTR   | R<br>6<br>0                |          | L<br>7<br>0<br>16<br>0 | T<br>8<br>1<br>LTR<br>15<br>0 | 9<br>0<br>13 |       | L<br>10<br>0<br>3<br>0 | T<br>11<br>1<br>LTR<br>13<br>0 | 1)<br>0<br>7               |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)  | U<br>1U | Eastb<br>L<br>1<br>0      | T<br>2<br>1<br>LTR | R<br>3<br>0       | U<br>4U                                   | Westl<br>L<br>4<br>0<br>14  | T<br>5<br>1<br>LTR   | R<br>6<br>0                |          | L<br>7<br>0<br>16<br>0 | T<br>8<br>1<br>LTR<br>15<br>0 | 9<br>0<br>13 |       | L<br>10<br>0<br>3<br>0 | T<br>11<br>1<br>LTR<br>13<br>0 | 12<br>0<br>7               |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage |         | Eastb<br>1<br>0<br>8<br>0 | T<br>2<br>1<br>LTR | R<br>3<br>0       | Majo           U           4U           0 | Westl<br>L<br>4<br>0<br>14  | T<br>5<br>1<br>LTR   | R<br>6<br>0                |          | L<br>7<br>0<br>16<br>0 | T<br>8<br>1<br>LTR<br>15<br>0 | 9<br>0<br>13 |       | L<br>10<br>0<br>3<br>0 | T<br>11<br>1<br>LTR<br>13<br>0 | 1)<br>()<br>7              |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized                          |         | Eastb<br>1<br>0<br>8<br>0 | T<br>2<br>1<br>LTR | R<br>3<br>0       | Majo           U           4U           0 | Westl<br>L<br>4<br>0<br>14  | T<br>5<br>1<br>LTR   | R<br>6<br>0                |          | L<br>7<br>0<br>16<br>0 | T<br>8<br>1<br>LTR<br>15<br>0 | 9<br>0<br>13 |       | L<br>10<br>0<br>3<br>0 | T<br>11<br>1<br>LTR<br>13<br>0 | 1                          |

#### Delay, Queue Length, and Level of Service

2.2

2.20

Base Follow-Up Headway (sec)

Follow-Up Headway (sec)

| Denay, Queue Lengen, and                | <br> |     |     |      |     |     |    |      |  |    |      |  |
|---|------|-----|-----|------|-----|-----|----|------|--|----|------|--|
| Flow Rate, v (veh/h)                    | 19   |     |     | 33   |     |     |    | 102  |  |    | 53   |  |
| Capacity, c (veh/h)                     | 1459 |     |     | 1387 |     |     |    | 542  |  |    | 554  |  |
| v/c Ratio                               | 0.01 |     |     | 0.02 |     |     |    | 0.19 |  |    | 0.10 |  |
| 95% Queue Length, Q <sub>95</sub> (veh) | 0.0  |     |     | 0.1  |     |     |    | 0.7  |  |    | 0.3  |  |
| Control Delay (s/veh)                   | 7.5  | 0.1 | 0.1 | 7.7  | 0.2 | 0.2 |    | 13.2 |  |    | 12.2 |  |
| Level of Service (LOS)                  | А    | A   | А   | A    | А   | А   |    | В    |  |    | В    |  |
| Approach Delay (s/veh)                  | 0    | .7  |     | 1    | .8  |     | 13 | 8.2  |  | 12 | 2.2  |  |
| Approach LOS                            | ļ    | 4   |     | 1    | 4   |     | E  | 3    |  | E  | 3    |  |

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3.5

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|   |                  |                                |                    |                    |              |                                | <b>C</b> '           |             |          |                        |                               |                   |       |                        |                                |                   |
|---|------------------|--------------------------------|--------------------|--------------------|--------------|--------------------------------|----------------------|-------------|----------|------------------------|-------------------------------|-------------------|-------|------------------------|--------------------------------|-------------------|
| General Information   |                  |                                |                    |                    |              |                                | Site                 | Inforr      | natio    | n                      |                               |                   |       |                        |                                |                   |
| Analyst   | AG               |                                |                    |                    |              |                                | Inters               | ection      |          |                        | Grove                         | e and Ha          | rvard |                        |                                |                   |
| Agency/Co.  | Erikss           | on                             |                    |                    |              |                                | Jurisd               | liction     |          |                        | Arling                        | gton Hei          | ghts  |                        |                                |                   |
| Date Performed  | 9/6/2            | 022                            |                    |                    |              |                                | East/\               | Nest Stre   | eet      |                        | Grove                         | e Street          |       |                        |                                |                   |
| Analysis Year   | 2028             |                                |                    |                    |              |                                | North                | /South S    | Street   |                        | Harva                         | rd Aven           | ue    |                        |                                |                   |
| Time Analyzed   | AM P             | eak                            |                    |                    |              |                                | Peak I               | Hour Fac    | tor      |                        | 0.43                          |                   |       |                        |                                |                   |
| Intersection Orientation  | East-            | West                           |                    |                    |              |                                | Analy                | sis Time    | Period ( | hrs)                   | 0.25                          |                   |       |                        |                                |                   |
| Project Description   | West             | gate Sch                       | ool                |                    |              |                                |                      |             |          |                        |                               |                   |       |                        |                                |                   |
| Lanes   |                  |                                |                    |                    |              |                                |                      |             |          |                        |                               |                   |       |                        |                                |                   |
|   |                  |                                |                    | 1412450<br>2412450 |              |                                |                      | በካቀ         |          |                        |                               |                   |       |                        |                                |                   |
| Vehicle Volumes and Ad  | ustme            | nts                            |                    | 741                |              | نې<br>مې کې ۱<br>pr Street: Ea | st-West              | 1 L U       |          |                        |                               |                   |       |                        |                                |                   |
| -   | justme           |                                | pound              |                    |              | or Street: Ea                  |                      | 14 U        |          | North                  | bound                         |                   |       | South                  | bound                          |                   |
| <b>Vehicle Volumes and Ad</b><br>Approach<br>Movement   | j <b>ustme</b>   |                                | pound              | R                  |              | or Street: Ea                  | st-West              | R           | U        | North                  | bound<br>T                    | R                 | U     | South                  | bound<br>T                     | R                 |
| Approach  |                  | Eastb                          | 1                  |                    | Maji         | westl                          | bound                | G           | U        |                        | 1                             | R<br>9            | U     |                        |                                |                   |
| Approach<br>Movement  | U                | Eastb<br>L                     | Т                  | R                  | U            | Westl                          | oound<br>T           | R           | U        | L                      | Т                             |                   | U     | L                      | Т                              | 1                 |
| Approach<br>Movement<br>Priority  | U<br>1U          | Eastb<br>L<br>1                | Т<br>2             | R<br>3             | U<br>4U      | Westl<br>L<br>4                | oound<br>T<br>5      | R<br>6      | U        | L<br>7                 | Т<br>8                        | 9                 | U     | L<br>10                | T<br>11                        | R<br>11<br>0      |
| Approach<br>Movement<br>Priority<br>Number of Lanes   | U<br>1U          | Eastb<br>L<br>1                | T<br>2<br>1        | R<br>3             | U<br>4U      | Westl<br>L<br>4                | Dound<br>T<br>5<br>1 | R<br>6      | U        | L<br>7                 | T<br>8<br>1                   | 9                 | U     | L<br>10                | T<br>11<br>1                   | 1:<br>C           |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration  | U<br>1U          | Eastb<br>L<br>1<br>0           | T<br>2<br>1<br>LTR | R<br>3<br>0        | U<br>4U      | Westl<br>U<br>4<br>0           | T<br>5<br>1<br>LTR   | R<br>6<br>0 | U        | L<br>7<br>0            | T<br>8<br>1<br>LTR            | 9                 | U     | L<br>10<br>0           | T<br>11<br>1<br>LTR            | 1)<br>C           |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)  | U<br>1U          | Eastb<br>L<br>1<br>0           | T<br>2<br>1<br>LTR | R<br>3<br>0        | U<br>4U      | Westl<br>U<br>4<br>0<br>22     | T<br>5<br>1<br>LTR   | R<br>6<br>0 | U<br>0   | L<br>7<br>0<br>45      | T<br>8<br>1<br>LTR<br>18      | 9<br>0<br>16      | U<br> | L<br>10<br>0<br>3      | T<br>11<br>1<br>LTR<br>16      | 1<br>(<br>7       |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)  | U<br>1U          | Eastb<br>L<br>1<br>0           | T<br>2<br>1<br>LTR | R<br>3<br>0        | U<br>4U      | Westl<br>U<br>4<br>0<br>22     | T<br>5<br>1<br>LTR   | R<br>6<br>0 |          | L<br>7<br>0<br>45<br>0 | T<br>8<br>1<br>LTR<br>18      | 9<br>0<br>16      |       | L<br>10<br>0<br>3<br>0 | T<br>11<br>1<br>LTR<br>16      | 12                |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked   | U<br>1U          | Eastb<br>L<br>1<br>0           | T<br>2<br>1<br>LTR | R<br>3<br>0        | U<br>4U      | Westl<br>U<br>4<br>0<br>22     | T<br>5<br>1<br>LTR   | R<br>6<br>0 |          | L<br>7<br>0<br>45<br>0 | T<br>8<br>1<br>LTR<br>18<br>0 | 9<br>0<br>16      |       | L<br>10<br>0<br>3<br>0 | T<br>11<br>1<br>LTR<br>16<br>0 | 1<br>(<br>7       |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)  | U<br>1U          | Eastb<br>L<br>1<br>0           | T<br>2<br>1<br>LTR | R<br>3<br>0<br>56  | U<br>4U      | Westl<br>U<br>4<br>0<br>22     | T<br>5<br>1<br>LTR   | R<br>6<br>0 |          | L<br>7<br>0<br>45<br>0 | T<br>8<br>1<br>LTR<br>18<br>0 | 9<br>0<br>16      |       | L<br>10<br>0<br>3<br>0 | T<br>11<br>1<br>LTR<br>16<br>0 | 1)<br>C           |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage                 | U<br>1U<br>0<br> | Eastb<br>1<br>0<br>8<br>0      | T<br>2<br>1<br>LTR | R<br>3<br>0<br>56  | U<br>4U<br>0 | Westl<br>U<br>4<br>0<br>22     | T<br>5<br>1<br>LTR   | R<br>6<br>0 |          | L<br>7<br>0<br>45<br>0 | T<br>8<br>1<br>LTR<br>18<br>0 | 9<br>0<br>16      |       | L<br>10<br>0<br>3<br>0 | T<br>11<br>1<br>LTR<br>16<br>0 | 1)<br>C           |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage                 | U<br>1U<br>0<br> | Eastb<br>1<br>0<br>8<br>0      | T<br>2<br>1<br>LTR | R<br>3<br>0<br>56  | U<br>4U<br>0 | Westl<br>U<br>4<br>0<br>22     | T<br>5<br>1<br>LTR   | R<br>6<br>0 |          | L<br>7<br>0<br>45<br>0 | T<br>8<br>1<br>LTR<br>18<br>0 | 9<br>0<br>16      |       | L<br>10<br>0<br>3<br>0 | T<br>11<br>1<br>LTR<br>16<br>0 | 11<br>C<br>7<br>C |
| Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage<br>Critical and Follow-up H | U<br>1U<br>0<br> | Eastb<br>L<br>1<br>0<br>8<br>0 | T<br>2<br>1<br>LTR | R<br>3<br>0<br>56  | U<br>4U<br>0 | Westl<br>U<br>22<br>0          | T<br>5<br>1<br>LTR   | R<br>6<br>0 |          | L<br>7<br>0<br>45<br>0 | T<br>8<br>1<br>LTR<br>18<br>0 | 9<br>0<br>16<br>0 |       | L<br>10<br>0<br>3<br>0 | T<br>11<br>LTR<br>16<br>0      | 12<br>0<br>7      |

#### Delay, Queue Length, and Level of Service

Follow-Up Headway (sec)

2.20

|   | <br> |     |     |      |     |     |    |      |  |    |      |  |
|---|------|-----|-----|------|-----|-----|----|------|--|----|------|--|
| Flow Rate, v (veh/h)                    | 19   |     |     | 51   |     |     |    | 184  |  |    | 60   |  |
| Capacity, c (veh/h)                     | 1459 |     |     | 1390 |     |     |    | 487  |  |    | 518  |  |
| v/c Ratio                               | 0.01 |     |     | 0.04 |     |     |    | 0.38 |  |    | 0.12 |  |
| 95% Queue Length, Q <sub>95</sub> (veh) | 0.0  |     |     | 0.1  |     |     |    | 1.7  |  |    | 0.4  |  |
| Control Delay (s/veh)                   | 7.5  | 0.1 | 0.1 | 7.7  | 0.3 | 0.3 |    | 16.8 |  |    | 12.9 |  |
| Level of Service (LOS)                  | А    | A   | А   | A    | А   | А   |    | С    |  |    | В    |  |
| Approach Delay (s/veh)                  | 0    | .8  |     | 2    | .6  |     | 16 | 5.8  |  | 12 | 2.9  |  |
| Approach LOS                            | ļ    | 4   |     | /    | 4   |     | (  | 2    |  | I  | 3    |  |

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4.00

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|   |        | ŀ   | ICS 1     | ſwo-          | Way        | Stop                         | -Cor     | ntrol     | Repo     | ort                                |                    |                               |       |                              |                                       |                      |
|---|--------|---|-----------|---------------|------------|------------------------------|----------|-----------|----------|------------------------------------|--------------------|-------------------------------|-------|------------------------------|---------------------------------------|----------------------|
| General Information   |        | _   | _         | _             | _          | _                            | Site     | Inforr    | natio    | n                                  | _                  | _                             | _     | _                            | _                                     | _                    |
| Analyst   | AG     |   |           |               |            |                              | Inters   | ection    |          |                                    | Grove              | and Ha                        | rvard |                              |                                       |                      |
| Agency/Co.  | Erikss | on  |           |               |            |                              | Jurisd   | iction    |          |                                    | Arling             | ton Heig                      | ghts  |                              |                                       |                      |
| Date Performed  | 9/6/2  | 022   |           |               |            |                              | East/\   | Nest Stre | eet      |                                    | Grove              | e Street                      |       |                              |                                       |                      |
| Analysis Year   | 2022   |   |           |               |            |                              | North    | /South S  | Street   |                                    | Harva              | rd Aven                       | ue    |                              |                                       |                      |
| Time Analyzed   | PM P   | eak   |           |               |            |                              | Peak     | Hour Fac  | ctor     |                                    | 0.60               |                               |       |                              |                                       |                      |
| Intersection Orientation  | East-  | West  |           |               |            |                              | Analy    | sis Time  | Period ( | hrs)                               | 0.25               |                               |       |                              |                                       |                      |
| Project Description   | West   | gate Sch                                    | ool       |               |            |                              |          |           |          |                                    |                    |                               |       |                              |                                       |                      |
| Lanes   |        |   |           |               |            |                              |          |           |          |                                    |                    |                               |       |                              |                                       |                      |
| Vehicle Volumes and Ad  | iustme | nts   |           | J 4 1 7 4 1 7 | ۲ ۹<br>Maj | م<br>م ۲۲ 1<br>pr Street: Ea | st-West  | 1 L L     |          |                                    |                    |                               |       |                              |                                       |                      |
| Approach  |        |   | ound      |               |            | West                         | oound    |           |          | North                              | bound              |                               |       | South                        | bound                                 |                      |
| Movement  | U      | L   | Т         | R             | U          | L                            | Т        | R         | U        | L                                  | Т                  | R                             | U     | L                            | Т                                     | R                    |
| Priority  | 10     | 1   | 2         | 3             | 4U         | 4                            | 5        | 6         | -        | 7                                  | 8                  | 9                             | -     | 10                           | 11                                    | 12                   |
| ,   |        | 0   |           | 0             | 0          |                              |          |           |          |                                    |                    |                               |       |                              |                                       |                      |
| Number of Lanes   | 0      |   | 1         |               |            | 0                            | 1        | 0         |          | 0                                  | 1                  | 0                             |       | 0                            | 1                                     | 0                    |
| Number of Lanes<br>Configuration  | 0      | 0   | LTR       | 0             | 0          | 0                            | 1<br>LTR | 0         |          | 0                                  | 1<br>LTR           | 0                             |       | 0                            | 1<br>LTR                              | 0                    |
|   | 0      | 14  |           | 14            |            | 6                            |          | 0         |          | 0<br>27                            |                    | 0                             |       | 0                            |                                       | 0                    |
| Configuration   | 0      |   | LTR       |               |            |                              | LTR      |           |          |                                    | LTR                |                               |       |                              | LTR                                   |                      |
| Configuration<br>Volume (veh/h)   | 0      | 14  | LTR       |               |            | 6                            | LTR      |           |          | 27                                 | LTR<br>15          | 13                            |       | 1                            | LTR<br>7                              | 8                    |
| Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)   |        | 14  | LTR       |               |            | 6                            | LTR      |           |          | 27<br>0                            | LTR<br>15          | 13                            |       | 1                            | LTR<br>7                              | 8                    |
| Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked  |        | 14  | LTR       |               |            | 6                            | LTR      |           |          | 27<br>0                            | LTR<br>15<br>0     | 13                            |       | 1                            | LTR<br>7<br>0                         | 8                    |
| Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)   |        | 14  | LTR       | 14            | vided      | 6                            | LTR      |           |          | 27<br>0                            | LTR<br>15<br>0     | 13                            |       | 1                            | LTR<br>7<br>0                         | 8                    |
| Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized   |        | 14  | LTR       | 14            |            | 6                            | LTR      |           |          | 27<br>0                            | LTR<br>15<br>0     | 13                            |       | 1                            | LTR<br>7<br>0                         | 8                    |
| Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage<br>Critical and Follow-up H  |        | 14  | LTR       | 14            |            | 6                            | LTR      |           |          | 27<br>0                            | LTR<br>15<br>0     | 13                            |       | 1                            | LTR<br>7<br>0                         | 8                    |
| Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage  |        | 14<br>0                                     | LTR       | 14            |            | 6                            | LTR      |           |          | 27<br>0                            | LTR<br>15<br>0     | 13<br>0                       |       | 1 0                          | LTR<br>7<br>0                         | 8                    |
| Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage<br><b>Critical and Follow-up H</b><br>Base Critical Headway (sec)  |        | 14<br>0<br>ys<br>4.1                        | LTR       | 14            |            | 6<br>0<br>4.1                | LTR      |           |          | 27<br>0<br>(<br>7.1                | LTR<br>15<br>0     | 13<br>0<br>6.2                |       | 1<br>0<br>7.1                | LTR<br>7<br>0<br>0<br>6.5             | 8<br>0<br>6.2        |
| Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage<br><b>Critical and Follow-up H</b><br>Base Critical Headway (sec)<br>Critical Headway (sec)  |        | 14<br>0<br>ys<br>4.1<br>4.10                | LTR       | 14            |            | 6<br>0<br>4.1<br>4.10        | LTR      |           |          | 27<br>0<br>(<br>7.1<br>7.10        | LTR<br>15<br>0<br> | 13<br>0<br>6.2<br>6.20        |       | 1<br>0<br>7.1<br>7.10        | LTR<br>7<br>0<br>0<br>0<br>6.5<br>6.5 | 6.2<br>6.20          |
| Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage<br><b>Critical and Follow-up H</b><br>Base Critical Headway (sec)<br>Critical Headway (sec)<br>Base Follow-Up Headway (sec)                            |        | 14<br>0<br>ys<br>4.1<br>4.10<br>2.2<br>2.20 | LTR<br>80 | Undi          |            | 6<br>0<br>4.1<br>4.10<br>2.2 | LTR      |           |          | 27<br>0<br>(<br>7.1<br>7.10<br>3.5 | LTR<br>15<br>0<br> | 13<br>0<br>6.2<br>6.20<br>3.3 |       | 1<br>0<br>7.1<br>7.10<br>3.5 | LTR<br>7<br>0<br>                     | 6.2<br>6.20<br>3.3   |
| Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage<br><b>Critical and Follow-up H</b><br>Base Critical Headway (sec)<br>Critical Headway (sec)<br>Base Follow-Up Headway (sec)<br>Follow-Up Headway (sec) |        | 14<br>0<br>ys<br>4.1<br>4.10<br>2.2<br>2.20 | LTR<br>80 | Undi          |            | 6<br>0<br>4.1<br>4.10<br>2.2 | LTR      |           |          | 27<br>0<br>(<br>7.1<br>7.10<br>3.5 | LTR<br>15<br>0<br> | 13<br>0<br>6.2<br>6.20<br>3.3 |       | 1<br>0<br>7.1<br>7.10<br>3.5 | LTR<br>7<br>0<br>                     | 8<br>0<br>6.2<br>3.3 |

| Flow Rate, v (veh/h)                    | 23   |     |     | 10   |     |     |    | 92   |  |    | 27   |  |
|---|------|-----|-----|------|-----|-----|----|------|--|----|------|--|
| Capacity, c (veh/h)                     | 1497 |     |     | 1405 |     |     |    | 586  |  |    | 684  |  |
| v/c Ratio                               | 0.02 |     |     | 0.01 |     |     |    | 0.16 |  |    | 0.04 |  |
| 95% Queue Length, Q <sub>95</sub> (veh) | 0.0  |     |     | 0.0  |     |     |    | 0.6  |  |    | 0.1  |  |
| Control Delay (s/veh)                   | 7.4  | 0.1 | 0.1 | 7.6  | 0.1 | 0.1 |    | 12.3 |  |    | 10.5 |  |
| Level of Service (LOS)                  | А    | А   | А   | А    | А   | А   |    | В    |  |    | В    |  |
| Approach Delay (s/veh)                  | 1.   | .1  |     | 0.   | .7  |     | 12 | 3    |  | 10 | ).5  |  |
| Approach LOS                            | A    | Ą   |     | A    | Ą   |     | E  | 3    |  | E  | 3    |  |

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|   |         | ł        | ICS 1  | [wo-]           | Way   | Stop                         | -Cor    | ntrol                      | Repo     | ort   |        |          |        |       |       |     |
|---|---------|----------|--------|-----------------|-------|------------------------------|---------|----------------------------|----------|-------|--------|----------|--------|-------|-------|-----|
| General Information                             |         |          |        |                 | _     |                              | Site    | Infor                      | natio    | n     | _      | _        |        | _     |       | _   |
| Analyst   | AG      |          |        |                 |       |                              | Inters  | ection                     |          |       | Grove  | e and Ha | irvard |       |       |     |
| Agency/Co.                                      | Erikss  | son      |        |                 |       |                              | Jurisd  | liction                    |          |       | Arling | gton Hei | ghts   |       |       |     |
| Date Performed                                  | 9/6/2   | 2022     |        |                 |       |                              | East/\  | West Str                   | eet      |       | Grove  | e Street |        |       |       |     |
| Analysis Year                                   | 2028    |          |        |                 |       |                              | North   | /South                     | Street   |       | Harva  | ard Aven | ue     |       |       |     |
| Time Analyzed                                   | PM P    | eak      |        |                 |       |                              | Peak    | Hour Fa                    | ctor     |       | 0.60   |          |        |       |       |     |
| Intersection Orientation                        | East-   | West     |        |                 |       |                              | Analy   | sis Time                   | Period ( | hrs)  | 0.25   |          |        |       |       |     |
| Project Description                             | West    | gate Sch | ool    |                 |       |                              |         |                            |          |       |        |          |        |       |       |     |
| Lanes   |         |          |        |                 |       |                              |         |                            |          |       |        |          |        |       |       |     |
| Vehicle Volumes and Ad                          | justme  | nts      |        | J 4 4 7 4 4 7 4 |       | ÷<br>م ۲۲ 1<br>or Street: Ea | st-West | 4<br>4<br>7<br>4<br>4<br>7 |          |       |        |          |        |       |       |     |
| Approach  | T       | Eastk    | ound   |                 |       | West                         | oound   |                            |          | North | bound  |          |        | South | bound |     |
| Movement  | U       | L        | Т      | R               | U     | L                            | Т       | R                          | U        | L     | Т      | R        | U      | L     | Т     | R   |
| Priority  | 1U      | 1        | 2      | 3               | 4U    | 4                            | 5       | 6                          |          | 7     | 8      | 9        |        | 10    | 11    | 12  |
| Number of Lanes                                 | 0       | 0        | 1      | 0               | 0     | 0                            | 1       | 0                          |          | 0     | 1      | 0        |        | 0     | 1     | 0   |
| Configuration                                   |         |          | LTR    |                 |       |                              | LTR     |                            |          |       | LTR    |          |        |       | LTR   |     |
| Volume (veh/h)                                  |         | 14       | 66     | 24              |       | 14                           | 59      | 5                          |          | 39    | 18     | 16       |        | 1     | 8     | 8   |
| Percent Heavy Vehicles (%)                      |         | 0        |        |                 |       | 0                            |         |                            |          | 0     | 0      | 0        |        | 0     | 0     | 0   |
| Proportion Time Blocked                         |         |          |        |                 |       |                              |         |                            |          |       |        |          |        |       |       |     |
| Percent Grade (%)                               |         |          | -      | -               |       | -                            |         | -                          |          |       | C      | -        |        |       | 0     |     |
| Right Turn Channelized                          |         |          |        |                 |       |                              |         |                            |          |       |        |          |        |       |       |     |
| Median Type   Storage                           |         |          |        | Undi            | vided |                              |         |                            |          |       |        |          |        |       |       |     |
| Critical and Follow-up H                        | eadwa   | ys       |        |                 |       |                              |         |                            |          |       |        |          |        |       |       |     |
| Base Critical Headway (sec)                     | T       | 4.1      |        |                 |       | 4.1                          |         |                            |          | 7.1   | 6.5    | 6.2      |        | 7.1   | 6.5   | 6.2 |
| Critical Headway (sec)                          |         | 4.10     |        |                 |       | 4.10                         |         |                            |          | 7.10  | 6.50   | 6.20     |        | 7.10  | 6.50  | 6.2 |
| Base Follow-Up Headway (sec)                    |         | 2.2      |        |                 |       | 2.2                          |         |                            |          | 3.5   | 4.0    | 3.3      |        | 3.5   | 4.0   | 3.3 |
| Follow-Up Headway (sec)                         |         | 2.20     |        |                 |       | 2.20                         |         |                            |          | 3.50  | 4.00   | 3.30     |        | 3.50  | 4.00  | 3.3 |
|   |         | l of S   | ervice |                 |       |                              |         |                            |          |       |        |          |        |       |       |     |
| Delay, Queue Length, an                         | IG LEVE |          |        |                 |       |                              |         |                            |          |       |        |          |        |       |       |     |
| Delay, Queue Length, an<br>Flow Rate, v (veh/h) |         | 23       |        |                 |       | 23                           |         |                            |          |       | 122    |          |        |       | 28    |     |

| Flow Rate, v (veh/h)                    | 23   |     |     | 23   |     |     |    | 122  |  |    | 28   |  |
|---|------|-----|-----|------|-----|-----|----|------|--|----|------|--|
| Capacity, c (veh/h)                     | 1497 |     |     | 1413 |     |     |    | 567  |  |    | 657  |  |
| v/c Ratio                               | 0.02 |     |     | 0.02 |     |     |    | 0.21 |  |    | 0.04 |  |
| 95% Queue Length, Q <sub>95</sub> (veh) | 0.0  |     |     | 0.1  |     |     |    | 0.8  |  |    | 0.1  |  |
| Control Delay (s/veh)                   | 7.4  | 0.1 | 0.1 | 7.6  | 0.1 | 0.1 |    | 13.1 |  |    | 10.7 |  |
| Level of Service (LOS)                  | А    | А   | А   | А    | А   | А   |    | В    |  |    | В    |  |
| Approach Delay (s/veh)                  | 1.   | .1  |     | 1    | .5  |     | 13 | .1   |  | 10 | ).7  |  |
| Approach LOS                            | ŀ    | 4   |     | A    | 4   |     | E  | 3    |  | E  | 3    |  |

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|   | _            | _                                      | ICS -              | _           | _       |  | _                    | _           | _        | _                     | _                                 | _                 |        | _                      | _                             | _                 |
|---|--------------|--|--------------------|-------------|---------|--|----------------------|-------------|----------|-----------------------|-----------------------------------|-------------------|--------|------------------------|-------------------------------|-------------------|
| General Information   |              |  |                    |             |         |  | Site                 | Inforr      | natio    | n                     |                                   |                   |        |                        |                               |                   |
| Analyst   | AG           |  |                    |             |         |  | Inters               | ection      |          |                       | Grove                             | e and Pri         | nceton |                        |                               |                   |
| Agency/Co.  | Erikss       | on                                     |                    |             |         |  | Jurisd               | iction      |          |                       | Arling                            | ton Heig          | ghts   |                        |                               |                   |
| Date Performed  | 9/6/2        | 022                                    |                    |             |         |  | East/\               | Nest Stre   | eet      |                       | Grove                             | Street            |        |                        |                               |                   |
| Analysis Year   | 2022         |  |                    |             |         |  | North                | /South S    | Street   |                       | Prince                            | eton Ave          | nue    |                        |                               |                   |
| Time Analyzed   | AM P         | eak                                    |                    |             |         |  | Peak I               | Hour Fac    | ctor     |                       | 0.76                              |                   |        |                        |                               |                   |
| Intersection Orientation  | East-        | West                                   |                    |             |         |  | Analy                | sis Time    | Period ( | hrs)                  | 0.25                              |                   |        |                        |                               |                   |
| Project Description   | West         | gate Sch                               | ool                |             |         |  |                      |             |          |                       |                                   |                   |        |                        |                               |                   |
| Lanes   |              |  |                    |             |         |  |                      |             |          |                       |                                   |                   |        |                        |                               |                   |
|   |              |  |                    | *           |         |  |                      | 4<br>7<br>4 |          |                       |                                   |                   |        |                        |                               |                   |
|   | • • •        |  | _                  | <u> </u>    |         | ÷<br>• • • • • • •<br>or Street: Eas   | st-West              | 1.1         | _        | _                     | _                                 | _                 |        | _                      |                               |                   |
| Vehicle Volumes and Adj   | justme       |  | oound              |             |         | or Street: Ea  |                      | ¥.          |          | North                 | bound                             |                   |        | South                  | bound                         |                   |
| Approach  |              | Eastb                                  | oound              |             | Majo    | or Street: Eas<br>Westb  | bound                | 1.0         |          |                       | bound                             | P                 |        |                        | bound                         | P                 |
| Approach<br>Movement  | U            | Eastb<br>L                             | Т                  | R           | Majo    | Westb  | oound<br>T           | R           | U        | L                     | Т                                 | R                 | U      | L                      | Т                             | R<br>12           |
| Approach<br>Movement<br>Priority  | U<br>1U      | Eastb<br>L<br>1                        | T<br>2             | R<br>3      | U<br>4U | Westt  | oound<br>T<br>5      | R<br>6      | U        | L<br>7                | Т<br>8                            | 9                 | U      | L<br>10                | T<br>11                       | 12                |
| Approach<br>Movement<br>Priority<br>Number of Lanes   | U            | Eastb<br>L                             | T<br>2<br>1        | R           | Majo    | Westb  | Dound<br>T<br>5<br>1 | R           | U        | L                     | T<br>8<br>1                       |                   | U      | L                      | T<br>11<br>1                  |                   |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration  | U<br>1U      | Eastb<br>L<br>1                        | T<br>2<br>1<br>LTR | R<br>3<br>0 | U<br>4U | Westle   | T<br>5<br>1<br>LTR   | R<br>6<br>0 | U        | L<br>7<br>0           | T<br>8<br>1<br>LTR                | 9                 | U      | L<br>10<br>0           | T<br>11                       | 12<br>0           |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)  | U<br>1U      | Eastb<br>L<br>1<br>0                   | T<br>2<br>1        | R<br>3      | U<br>4U | Westt  | Dound<br>T<br>5<br>1 | R<br>6      |          | L<br>7                | T<br>8<br>1                       | 9                 | U      | L<br>10                | T<br>11<br>1<br>LTR           | 12                |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration  | U<br>1U      | Eastb<br>L<br>1<br>0<br>4              | T<br>2<br>1<br>LTR | R<br>3<br>0 | U<br>4U | Westh<br>U<br>U<br>Q<br>Q<br>Q<br>Q  | T<br>5<br>1<br>LTR   | R<br>6<br>0 | U        | L<br>7<br>0<br>3      | T<br>8<br>1<br>LTR<br>5           | 9<br>0<br>13      | U      | L<br>10<br>0<br>5      | T<br>11<br>1<br>LTR<br>4      | 12<br>0<br>2      |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)  | U<br>1U      | Eastb<br>L<br>1<br>0<br>4              | T<br>2<br>1<br>LTR | R<br>3<br>0 | U<br>4U | Westh<br>U<br>U<br>Q<br>Q<br>Q<br>Q  | T<br>5<br>1<br>LTR   | R<br>6<br>0 |          | L<br>7<br>0<br>3<br>0 | T<br>8<br>1<br>LTR<br>5           | 9<br>0<br>13      |        | L<br>10<br>0<br>5<br>0 | T<br>11<br>1<br>LTR<br>4      | 12<br>0<br>2      |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked   | U<br>1U      | Eastb<br>L<br>1<br>0<br>4              | T<br>2<br>1<br>LTR | R<br>3<br>0 | U<br>4U | Westh<br>U<br>U<br>Q<br>Q<br>Q<br>Q  | T<br>5<br>1<br>LTR   | R<br>6<br>0 |          | L<br>7<br>0<br>3<br>0 | T<br>8<br>1<br>LTR<br>5<br>0      | 9<br>0<br>13      | U      | L<br>10<br>0<br>5<br>0 | T<br>11<br>LTR<br>4<br>0      | 12<br>0<br>2      |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)  | U<br>1U      | Eastb<br>L<br>1<br>0<br>4              | T<br>2<br>1<br>LTR | R<br>3<br>0 | U<br>4U | Westh<br>U<br>U<br>Q<br>Q<br>Q<br>Q  | T<br>5<br>1<br>LTR   | R<br>6<br>0 |          | L<br>7<br>0<br>3<br>0 | T<br>8<br>1<br>LTR<br>5<br>0      | 9<br>0<br>13      |        | L<br>10<br>0<br>5<br>0 | T<br>11<br>LTR<br>4<br>0      | 12<br>0<br>2      |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized  | U<br>1U<br>0 | Eastb<br>1<br>0<br>4<br>0              | T<br>2<br>1<br>LTR | R<br>3<br>0 | Majo    | Westh<br>U<br>U<br>Q<br>Q<br>Q<br>Q  | T<br>5<br>1<br>LTR   | R<br>6<br>0 |          | L<br>7<br>0<br>3<br>0 | T<br>8<br>1<br>LTR<br>5<br>0      | 9<br>0<br>13      |        | L<br>10<br>0<br>5<br>0 | T<br>11<br>LTR<br>4<br>0      | 12<br>0<br>2      |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage   | U<br>1U<br>0 | Eastb<br>1<br>0<br>4<br>0              | T<br>2<br>1<br>LTR | R<br>3<br>0 | Majo    | Westh<br>U<br>U<br>Q<br>Q<br>Q<br>Q  | T<br>5<br>1<br>LTR   | R<br>6<br>0 |          | L<br>7<br>0<br>3<br>0 | T<br>8<br>1<br>LTR<br>5<br>0      | 9<br>0<br>13      |        | L<br>10<br>0<br>5<br>0 | T<br>11<br>LTR<br>4<br>0      | 12<br>0<br>2      |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage   | U<br>1U<br>0 | Eastb<br>L<br>1<br>0<br>4<br>0         | T<br>2<br>1<br>LTR | R<br>3<br>0 | Majo    | Westb<br>U<br>4<br>0<br>9<br>0   | T<br>5<br>1<br>LTR   | R<br>6<br>0 |          | L<br>7<br>0<br>3<br>0 | T<br>8<br>1<br>LTR<br>5<br>0      | 9<br>0<br>13<br>0 |        | L<br>10<br>5<br>0      | T<br>11<br>LTR<br>4<br>0      | 12<br>0<br>2<br>0 |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage<br><b>Critical and Follow-up H</b><br>Base Critical Headway (sec) | U<br>1U<br>0 | Eastb<br>1<br>0<br>4<br>0<br>ys<br>4.1 | T<br>2<br>1<br>LTR | R<br>3<br>0 | Majo    | West           U           4           0           9           0           9           0           4           4           4           4           4           4           4           4           4           4           4           4           4           4           4           4           4           4           4 | T<br>5<br>1<br>LTR   | R<br>6<br>0 |          | L<br>7<br>0<br>3<br>0 | T<br>8<br>1<br>LTR<br>5<br>0<br>0 | 9<br>0<br>13<br>0 |        | L<br>10<br>0<br>5<br>0 | T<br>11<br>LTR<br>4<br>0<br>0 | 12<br>0<br>2<br>0 |

| Delay, Queue Length, and                | Leve | 10136 | ivice |     |      |     |     |    |      |  |    |      |  |
|---|------|-------|-------|-----|------|-----|-----|----|------|--|----|------|--|
| Flow Rate, v (veh/h)                    |      | 5     |       |     | 12   |     |     |    | 28   |  |    | 14   |  |
| Capacity, c (veh/h)                     |      | 1491  |       |     | 1497 |     |     |    | 814  |  |    | 703  |  |
| v/c Ratio                               |      | 0.00  |       |     | 0.01 |     |     |    | 0.03 |  |    | 0.02 |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |      | 0.0   |       |     | 0.0  |     |     |    | 0.1  |  |    | 0.1  |  |
| Control Delay (s/veh)                   |      | 7.4   | 0.0   | 0.0 | 7.4  | 0.1 | 0.1 |    | 9.6  |  |    | 10.2 |  |
| Level of Service (LOS)                  |      | А     | А     | А   | A    | А   | А   |    | А    |  |    | В    |  |
| Approach Delay (s/veh)                  |      | 0     | .4    |     | 1    | .0  |     | 9. | .6   |  | 10 | ).2  |  |
| Approach LOS                            |      | A     | 4     |     | /    | 4   |     | A  | 4    |  | E  | 3    |  |

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|   |        |                            |        |                 | ,     |               |         | ntrol                   |          | <i></i>     |             |             |        |             |             |                          |
|---|--------|----------------------------|--------|-----------------|-------|---------------|---------|-------------------------|----------|-------------|-------------|-------------|--------|-------------|-------------|--------------------------|
| General Information   |        |                            |        |                 |       |               | Site    | Inforr                  | natio    | n           |             |             |        |             |             |                          |
| Analyst   | AG     |                            |        |                 |       |               | Inters  | ection                  |          |             | Grove       | e and Pri   | nceton |             |             |                          |
| Agency/Co.  | Erikss | on                         |        |                 |       |               | Jurisd  | liction                 |          |             | Arling      | ton Hei     | ghts   |             |             |                          |
| Date Performed  | 9/6/2  | 022                        |        |                 |       |               | East/\  | Nest Stre               | eet      |             | Grove       | e Street    |        |             |             |                          |
| Analysis Year   | 2028   |                            |        |                 |       |               | North   | /South S                | Street   |             | Prince      | eton Ave    | nue    |             |             |                          |
| Time Analyzed   | AM P   | eak                        |        |                 |       |               | Peak    | Hour Fac                | ctor     |             | 0.76        |             |        |             |             |                          |
| Intersection Orientation  | East-  | West                       |        |                 |       |               | Analy   | sis Time                | Period ( | hrs)        | 0.25        |             |        |             |             |                          |
| Project Description   | West   | gate Sch                   | ool    |                 |       |               |         |                         |          |             |             |             |        |             |             |                          |
| Lanes   |        |                            |        |                 |       |               |         |                         |          |             |             |             |        |             |             |                          |
| Vehicle Volumes and Ad  | ustme  | nts                        |        | 7 4 ↑ Y + P P P |       | or Street: Ea | st-West | ם<br>איד ה<br>איד איד ש |          |             |             |             |        |             |             |                          |
| Approach  |        | Eastb                      | ound   |                 |       | West          | oound   |                         |          | North       | bound       |             |        | South       | bound       |                          |
| Movement  | U      | L                          | Т      | R               | U     | L             | Т       | R                       | U        | L           | Т           | R           | U      | L           | Т           | R                        |
| Priority  | 1U     | 1                          | 2      | 3               | 4U    | 4             | 5       | 6                       |          | 7           | 8           | 9           |        | 10          | 11          | 12                       |
| Number of Lanes   | 0      | 0                          | 1      | 0               | 0     | 0             | 1       | 0                       |          | 0           | 1           | 0           |        | 0           | 1           | 0                        |
| Configuration   |        |                            | LTR    |                 |       |               | LTR     |                         |          |             | LTR         |             |        |             | LTR         |                          |
| Volume (veh/h)  |        | 4                          | 84     | 6               |       | 9             | 82      | 7                       |          | 3           | 5           | 13          |        | 5           | 4           | 2                        |
| Percent Heavy Vehicles (%)  |        | 0                          |        |                 |       | 0             |         |                         |          | 0           | 0           | 0           |        | 0           | 0           | 0                        |
| Proportion Time Blocked   |        |                            |        |                 |       |               |         |                         |          |             |             |             |        |             |             |                          |
| Percent Grade (%)   |        |                            |        |                 |       |               |         |                         |          | (           | )           |             |        |             | 0           |                          |
|   |        |                            |        |                 |       |               |         |                         |          |             |             |             |        |             |             |                          |
| Right Turn Channelized  |        |                            |        |                 |       |               |         |                         |          |             |             |             |        |             |             |                          |
| Right Turn Channelized<br>Median Type   Storage   |        |                            |        | Undi            | vided |               |         |                         |          |             |             |             |        |             |             |                          |
| Median Type   Storage   | eadwa  | ys                         |        | Undi            | vided |               |         |                         |          |             |             |             |        |             |             |                          |
| Median Type   Storage   | eadwa  | <b>ys</b><br>4.1           |        | Undi            | vided | 4.1           |         |                         |          | 7.1         | 6.5         | 6.2         |        | 7.1         | 6.5         | 6.2                      |
| Median Type   Storage<br>Critical and Follow-up H   | eadwa  | -                          |        | Undi            | vided | 4.1<br>4.10   |         |                         |          | 7.1<br>7.10 | 6.5<br>6.50 | 6.2<br>6.20 |        | 7.1<br>7.10 | 6.5<br>6.50 |                          |
| Median Type   Storage<br>Critical and Follow-up H<br>Base Critical Headway (sec)  | eadwa  | 4.1                        |        | Undi            | vided |               |         |                         |          |             |             |             |        |             |             | 6.2                      |
| Median Type   Storage<br>Critical and Follow-up H<br>Base Critical Headway (sec)<br>Critical Headway (sec)  | eadwa  | 4.1<br>4.10                |        | Undi            | vided | 4.10          |         |                         |          | 7.10        | 6.50        | 6.20        |        | 7.10        | 6.50        | 6.2<br>3.3               |
| Median Type   Storage<br>Critical and Follow-up H<br>Base Critical Headway (sec)<br>Critical Headway (sec)<br>Base Follow-Up Headway (sec)<br>Follow-Up Headway (sec) |        | 4.1<br>4.10<br>2.2<br>2.20 | ervice |                 | vided | 4.10<br>2.2   |         |                         |          | 7.10<br>3.5 | 6.50<br>4.0 | 6.20<br>3.3 |        | 7.10<br>3.5 | 6.50<br>4.0 | 6.2<br>3.3               |
| Median Type   Storage<br>Critical and Follow-up H<br>Base Critical Headway (sec)<br>Critical Headway (sec)<br>Base Follow-Up Headway (sec)                            |        | 4.1<br>4.10<br>2.2<br>2.20 | ervice |                 | vided | 4.10<br>2.2   |         |                         |          | 7.10<br>3.5 | 6.50<br>4.0 | 6.20<br>3.3 |        | 7.10<br>3.5 | 6.50<br>4.0 | 6.2<br>6.2<br>3.3<br>3.3 |

| Flow Rate, v (veh/h)                    | 5    |     |     | 12   |     |     |    | 28   |  |    | 14   |  |
|---|------|-----|-----|------|-----|-----|----|------|--|----|------|--|
| Capacity, c (veh/h)                     | 1444 |     |     | 1482 |     |     |    | 780  |  |    | 651  |  |
| v/c Ratio                               | 0.00 |     |     | 0.01 |     |     |    | 0.04 |  |    | 0.02 |  |
| 95% Queue Length, Q <sub>95</sub> (veh) | 0.0  |     |     | 0.0  |     |     |    | 0.1  |  |    | 0.1  |  |
| Control Delay (s/veh)                   | 7.5  | 0.0 | 0.0 | 7.4  | 0.1 | 0.1 |    | 9.8  |  |    | 10.7 |  |
| Level of Service (LOS)                  | А    | А   | А   | А    | А   | А   |    | А    |  |    | В    |  |
| Approach Delay (s/veh)                  | 0    | .3  |     | 0    | .7  |     | 9. | 8    |  | 10 | ).7  |  |
| Approach LOS                            | A    | 4   |     | A    | 4   |     | A  | 4    |  | E  | 3    |  |

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|  |        | ŀ              | ICS 1  | Гwo-'             | Way        | Stop                         | -Cor    | ntrol        | Repo     | ort   |           |           |        |       |           |      |
|--|--------|----------------|--------|-------------------|------------|------------------------------|---------|--------------|----------|-------|-----------|-----------|--------|-------|-----------|------|
| General Information                                |        | _              | _      | _                 | _          |                              | Site    | Inforr       | natio    | n     | _         | _         | _      | _     | _         | _    |
| Analyst  | AG     |                |        |                   |            |                              | Inters  | ection       |          |       | Grove     | e and Pri | nceton |       |           |      |
| Agency/Co.   | Erikss | son            |        |                   |            |                              | Jurisd  | iction       |          |       | Arling    | ton Hei   | ghts   |       |           |      |
| Date Performed                                     | 9/6/2  | 2022           |        |                   |            |                              | East/\  | Nest Stre    | eet      |       | Grove     | e Street  |        |       |           |      |
| Analysis Year                                      | 2022   |                |        |                   |            |                              | North   | /South S     | Street   |       | Prince    | eton Ave  | nue    |       |           |      |
| Time Analyzed                                      | PM P   | eak            |        |                   |            |                              | Peak    | Hour Fac     | ctor     |       | 0.83      |           |        |       |           |      |
| Intersection Orientation                           | East-  | West           |        |                   |            |                              | Analy   | sis Time     | Period ( | hrs)  | 0.25      |           |        |       |           |      |
| Project Description                                | West   | gate Sch       | ool    |                   |            |                              |         |              |          |       |           |           |        |       |           |      |
| Lanes  |        |                |        |                   |            |                              |         |              |          |       |           |           |        |       |           |      |
|  |        |                |        | J 4 4 1 4 4 7 1 4 | ۲ ۲<br>Maj | ↔<br>↔ Ƴ 1<br>or Street: Ea: | st-West | ት <b>ር ሀ</b> |          |       |           |           |        |       |           | _    |
| Vehicle Volumes and Ad                             | justme |                | ound   |                   |            | Westk                        | ound    |              |          | North | bound     |           |        | South | bound     |      |
| Movement   | U      | L              | Т      | R                 | U          | L                            | T       | R            | U        | L     | Т         | R         | U      | L     | Т         | R    |
| Priority   | 10     | 1              | 2      | 3                 | 4U         | 4                            | 5       | 6            |          | - 7   | 8         | 9         |        | 10    | 11        | 12   |
| Number of Lanes                                    | 0      | 0              | 1      | 0                 | 0          | 0                            | 1       | 0            |          | 0     | 1         | 0         |        | 0     | 1         | 0    |
| Configuration                                      |        |                | LTR    |                   |            |                              | LTR     |              |          |       | LTR       |           |        |       | LTR       |      |
| Volume (veh/h)                                     | +      | 8              | 94     | 6                 |            | 7                            | 83      | 4            |          | 5     | 6         | 11        |        | 3     | 5         | 4    |
| Percent Heavy Vehicles (%)                         |        | 0              |        |                   |            | 0                            |         |              |          | 0     | 0         | 0         |        | 0     | 0         | 0    |
| Proportion Time Blocked                            |        |                |        |                   |            |                              |         |              |          |       |           |           |        |       |           |      |
| Percent Grade (%)                                  |        |                |        |                   |            |                              |         |              |          | . (   | )         | 1         |        |       | 0         |      |
| Right Turn Channelized                             |        |                |        |                   |            |                              |         |              |          |       |           |           |        |       |           |      |
| Median Type   Storage                              |        |                |        | Undi              | vided      |                              |         |              |          |       |           |           |        |       |           |      |
| Critical and Follow-up H                           | eadwa  | ys             |        |                   |            |                              |         |              |          |       |           |           |        |       |           |      |
| Base Critical Headway (sec)                        |        | 4.1            |        |                   |            | 4.1                          |         |              |          | 7.1   | 6.5       | 6.2       |        | 7.1   | 6.5       | 6.2  |
| Critical Headway (sec)                             |        | 4.10           |        |                   |            | 4.10                         |         |              |          | 7.10  | 6.50      | 6.20      |        | 7.10  | 6.50      | 6.20 |
| Deep Fellow Un Lleadway (eac)                      |        | 2.2            |        |                   |            | 2.2                          |         |              |          | 3.5   | 4.0       | 3.3       |        | 3.5   | 4.0       | 3.3  |
| Base Follow-Up Headway (sec)                       |        | 2.20           |        |                   |            | 2.20                         |         |              |          | 3.50  | 4.00      | 3.30      |        | 3.50  | 4.00      | 3.30 |
| Follow-Up Headway (sec)                            |        |                |        |                   |            |                              |         |              |          |       |           |           |        |       |           |      |
| · ·  | d Leve | l of Se        | ervice |                   |            |                              |         |              |          |       |           |           |        |       |           |      |
| Follow-Up Headway (sec)                            | d Leve | <b>I of Se</b> | ervice |                   |            | 8                            |         |              |          |       | 27        |           |        |       | 14        |      |
| Follow-Up Headway (sec)<br>Delay, Queue Length, an | d Leve | 1              | ervice |                   |            | 8<br>1425                    |         |              |          |       | 27<br>694 |           |        |       | 14<br>689 |      |

95% Queue Length, Q<sub>95</sub> (veh) 0.0 0.0 0.1 Control Delay (s/veh) 7.4 0.1 0.1 7.5 0.0 0.0 10.4 Level of Service (LOS) А А А А А А В Approach Delay (s/veh) 0.6 0.6 10.4 Approach LOS А А В

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10.3

0.1

10.3

В

|  |   | l l  | ICS 1     | [wo-]           | vvay     | Stop                                 | -Cor     | ntrol     | керс     | ort                          |  |                   |        |                                   |                        |                                  |
|--|---|--|-----------|-----------------|----------|--------------------------------------|----------|-----------|----------|------------------------------|--|-------------------|--------|-----------------------------------|------------------------|----------------------------------|
| General Information  |   |  | _         | _               | _        |                                      | Site     | Inforr    | natio    | ı                            | _  | _                 | _      | _                                 | _                      | _                                |
| Analyst  | AG                                      |  |           |                 |          |                                      | Inters   | ection    |          |                              | Grove  | and Pri           | nceton |                                   |                        |                                  |
| Agency/Co.   | Erikss                                  | son  |           |                 |          |                                      | Jurisd   | iction    |          |                              | Arling   | ton Hei           | ghts   |                                   |                        |                                  |
| Date Performed   | 9/6/2                                   | 2022   |           |                 |          |                                      | East/\   | Nest Stre | eet      |                              | Grove  | e Street          |        |                                   |                        |                                  |
| Analysis Year  | 2028                                    |  |           |                 |          |                                      | North    | /South S  | Street   |                              | Prince   | eton Ave          | nue    |                                   |                        |                                  |
| Time Analyzed  | PM P                                    | 'eak   |           |                 |          |                                      | Peak     | Hour Fac  | ctor     |                              | 0.83   |                   |        |                                   |                        |                                  |
| Intersection Orientation   | East-                                   | West   |           |                 |          |                                      | Analy    | sis Time  | Period ( | hrs)                         | 0.25   |                   |        |                                   |                        |                                  |
| Project Description  | West                                    | gate Sch   | ool       |                 |          |                                      |          |           |          |                              |  |                   |        |                                   |                        |                                  |
| Lanes  |   |  |           |                 |          |                                      |          |           |          |                              |  |                   |        |                                   |                        |                                  |
|  | • |  |           | 7 4 1 Y 4 P 7 A | ۲<br>Maj | ۲<br>۲<br>or Street: East            | st-West  | 1 L L     |          |                              |  |                   |        |                                   |                        |                                  |
| Vehicle Volumes and Ad   | Justme                                  |  | ound      |                 |          | Westk                                | oound    |           |          | North                        | bound  |                   |        | South                             | bound                  |                                  |
| Movement   | U                                       | L  | Т         | R               | U        | L                                    | Т        | R         | U        | L                            | Т  | R                 | U      | L                                 | Т                      | R                                |
| Priority   | 10                                      | 1  | 2         | 3               | 4U       | 4                                    | 5        | 6         |          | 7                            | 8  | 9                 |        | 10                                | 11                     |                                  |
| i nonty  |   |  |           | L               | L        | L                                    |          |           |          |                              |  |                   |        | 1 10                              |                        | 12                               |
| Number of Lanes  | 0                                       | 0  | 1         | 0               | 0        | 0                                    | 1        | 0         |          | 0                            | 1  | 0                 |        | 0                                 | 1                      | 12<br>0                          |
| ,  | 0                                       | 0  | 1<br>LTR  | 0               | 0        | 0                                    | 1<br>LTR | 0         |          | 0                            | 1<br>LTR   | 0                 |        | -                                 |                        |                                  |
| Number of Lanes  | 0                                       | 0  |           | 0               | 0        | 0<br>7                               |          | 0         |          | 0                            |  | 0                 |        | -                                 | 1                      |                                  |
| Number of Lanes<br>Configuration   | 0                                       |  | LTR       |                 | 0        |                                      | LTR      |           |          |                              | LTR  |                   |        | 0                                 | 1<br>LTR               | 0                                |
| Number of Lanes<br>Configuration<br>Volume (veh/h)   | 0                                       | 8  | LTR       |                 | 0        | 7                                    | LTR      |           |          | 5                            | LTR<br>6   | 11                |        | 0                                 | 1<br>LTR<br>5          | 4                                |
| Number of Lanes         Configuration         Volume (veh/h)         Percent Heavy Vehicles (%)  |   | 8  | LTR       |                 | 0        | 7                                    | LTR      |           |          | 5                            | LTR<br>6   | 11                |        | 0 3 0                             | 1<br>LTR<br>5          | 0                                |
| Number of Lanes         Configuration         Volume (veh/h)         Percent Heavy Vehicles (%)         Proportion Time Blocked  |   | 8  | LTR       |                 | 0        | 7                                    | LTR      |           |          | 5                            | LTR<br>6<br>0                                      | 11                |        | 0 3 0                             | 1<br>LTR<br>5<br>0     | 0                                |
| Number of Lanes         Configuration         Volume (veh/h)         Percent Heavy Vehicles (%)         Proportion Time Blocked         Percent Grade (%)  |   | 8  | LTR       | 6               | 0        | 7                                    | LTR      |           |          | 5                            | LTR<br>6<br>0                                      | 11                |        | 0 3 0                             | 1<br>LTR<br>5<br>0     | 0                                |
| Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage  |   | 8  | LTR       | 6               |          | 7                                    | LTR      |           |          | 5                            | LTR<br>6<br>0                                      | 11                |        | 0 3 0                             | 1<br>LTR<br>5<br>0     | 0                                |
| Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage  |   | 8  | LTR       | 6               |          | 7                                    | LTR      |           |          | 5                            | LTR<br>6<br>0                                      | 11                |        | 0 3 0                             | 1<br>LTR<br>5<br>0     | 0                                |
| Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage<br><b>Critical and Follow-up H</b>   |   | 8<br>0   | LTR       | 6               |          | 7 0                                  | LTR      |           |          | 5                            | LTR<br>6<br>0                                      | 11 0              |        | 0 3 0                             | 1<br>LTR<br>5<br>0     | 0                                |
| Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage<br><b>Critical and Follow-up H</b><br>Base Critical Headway (sec)  |   | 8<br>0<br>ys<br>4.1  | LTR       | 6               |          | 7<br>0<br>4.1                        | LTR      |           |          | 5<br>0<br>7.1                | LTR<br>6<br>0                                      | 6.2               |        | 0 3 0 7.1                         | 1<br>LTR<br>5<br>0     | 0<br>4<br>0                      |
| Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage<br><b>Critical and Follow-up H</b><br>Base Critical Headway (sec)<br>Critical Headway (sec)  |   | 8<br>0<br>ys<br>4.1<br>4.10  | LTR       | 6               |          | 7<br>0<br>4.1<br>4.10                | LTR      |           |          | 5<br>0<br>7.1<br>7.10        | LTR<br>6<br>0<br>                                  | 6.2<br>6.20       |        | 0<br>3<br>0<br>7.1<br>7.10        | 1<br>LTR<br>5<br>0<br> | 0<br>4<br>0                      |
| Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage<br><b>Critical and Follow-up H</b><br>Base Critical Headway (sec)<br>Critical Headway (sec)<br>Base Follow-Up Headway (sec)  |   | <ul> <li>8</li> <li>0</li> <li><b>V</b></li> <li>4.1</li> <li>4.10</li> <li>2.2</li> <li>2.20</li> </ul> | LTR<br>98 | G<br>Undi       |          | 7<br>0<br>4.1<br>4.10<br>2.2         | LTR      |           |          | 5<br>0<br>7.1<br>7.10<br>3.5 | LTR<br>6<br>0<br>6.5<br>6.5<br>4.0                 | 6.2<br>6.2<br>3.3 |        | 0<br>3<br>0<br>7.1<br>7.10<br>3.5 | 1<br>LTR<br>5<br>0<br> | 0<br>4<br>0<br>6.2<br>6.2<br>3.3 |
| Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage<br><b>Critical and Follow-up H</b><br>Base Critical Headway (sec)<br>Critical Headway (sec)<br>Base Follow-Up Headway (sec)<br>Follow-Up Headway (sec)                                   |   | <ul> <li>8</li> <li>0</li> <li><b>V</b></li> <li>4.1</li> <li>4.10</li> <li>2.2</li> <li>2.20</li> </ul> | LTR<br>98 | G<br>Undi       |          | 7<br>0<br>4.1<br>4.10<br>2.2         | LTR      |           |          | 5<br>0<br>7.1<br>7.10<br>3.5 | LTR<br>6<br>0<br>6.5<br>6.5<br>4.0                 | 6.2<br>6.2<br>3.3 |        | 0<br>3<br>0<br>7.1<br>7.10<br>3.5 | 1<br>LTR<br>5<br>0<br> | 0<br>4<br>0<br>6.2<br>6.2<br>3.3 |
| Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage<br><b>Critical and Follow-up H</b><br>Base Critical Headway (sec)<br>Critical Headway (sec)<br>Base Follow-Up Headway (sec)<br>Follow-Up Headway (sec)<br><b>Delay, Queue Length, an</b> |   | 4.1<br>4.10<br>2.2<br>2.20   | LTR<br>98 | G<br>Undi       |          | 7<br>0<br>4.1<br>4.10<br>2.2<br>2.20 | LTR      |           |          | 5<br>0<br>7.1<br>7.10<br>3.5 | LTR<br>6<br>0<br>6.5<br>6.5<br>6.50<br>4.0<br>4.00 | 6.2<br>6.2<br>3.3 |        | 0<br>3<br>0<br>7.1<br>7.10<br>3.5 | 1<br>LTR<br>5<br>0<br> | 0<br>4<br>0<br>6.2<br>6.2<br>3.3 |

 Approach Delay (s/veh)
 0.6
 0.5

 Approach LOS
 A
 A

0.0

7.5

А

0.1

А

0.1

А

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95% Queue Length, Q<sub>95</sub> (veh)

Control Delay (s/veh)

Level of Service (LOS)

0.0

А

0.0

А

0.0

7.6

А

10.5

0.1

10.5

В

0.1

10.5

В

10.5

В

|  |         | ŀ                     | ICS 1        |  |                         |                  |                 |              | ncpc     | /i C              |             |          |          |            |             |                       |
|--|---------|-----------------------|--------------|--|-------------------------|------------------|-----------------|--------------|----------|-------------------|-------------|----------|----------|------------|-------------|-----------------------|
| General Information                                      |         |                       |              |  |                         |                  | Site            | Inforr       | natior   | ו                 |             |          |          |            |             |                       |
| Analyst  | AG      |                       |              |  |                         |                  | Inters          | ection       |          |                   | Dwye        | r Avenue | e and So | uth Lot    |             |                       |
| Agency/Co.   | Erikss  | on                    |              |  |                         |                  | Jurisd          | liction      |          |                   | Arling      | ton Heig | ghts     |            |             |                       |
| Date Performed   | 9/8/2   | 022                   |              |  |                         |                  | East/\          | Nest Stre    | eet      |                   | South       | Lot      |          |            |             |                       |
| Analysis Year  | 2022    |                       |              |  |                         |                  | North           | /South S     | Street   |                   | Dwye        | r Avenue | 9        |            |             |                       |
| Time Analyzed  | AM P    | eak                   |              |  |                         |                  | Peak            | Hour Fac     | tor      |                   | 0.56        |          |          |            |             |                       |
| Intersection Orientation                                 | North   | -South                |              |  |                         |                  | Analy           | sis Time     | Period ( | nrs)              | 0.25        |          |          |            |             |                       |
| Project Description                                      | Weste   | gate Sch              | ool          |  |                         |                  |                 |              |          |                   |             |          |          |            |             |                       |
| Lanes  |         |                       |              |  |                         |                  |                 |              |          |                   |             |          |          |            |             |                       |
|  |         |                       |              | <u>  4   1 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5</u> | ብ ጉ<br><sub>Major</sub> | ۲<br>Street: Nor | th South        | 14 4 7 4 F 7 |          |                   |             |          |          |            |             |                       |
|  |         |                       |              |  | -                       |                  | ui-souti        |              |          |                   |             |          |          |            |             |                       |
| Vehicle Volumes and A                                    | djustme | nts                   |              |  |                         |                  |                 |              |          |                   |             |          |          |            |             | _                     |
| Vehicle Volumes and A<br>Approach                        | djustme |                       | ound         |  |                         |                  | pound           |              |          | North             | bound       |          |          | South      | bound       |                       |
|  | djustme |                       | ound<br>T    | R  | U                       |                  |                 | R            | U        | North             | oound<br>T  | R        | U        | South<br>L | bound<br>T  |                       |
| Approach   |         | Eastb                 |              | R<br>12  | U                       | West             | bound           | R<br>9       | U<br>1U  |                   |             | R<br>3   | U<br>4U  |            |             |                       |
| Approach<br>Movement                                     |         | Eastb<br>L            | Т            |  | U                       | West             | oound<br>T      |              |          | L                 | Т           |          | -        | L          | Т           | (                     |
| Approach<br>Movement<br>Priority                         |         | Eastb<br>L<br>10      | T<br>11      | 12   | U                       | Westl            | oound<br>T<br>8 | 9            | 1U       | L<br>1            | T<br>2      | 3        | 4U       | L<br>4     | T<br>5      | (                     |
| Approach<br>Movement<br>Priority<br>Number of Lanes      |         | Eastb<br>L<br>10      | T<br>11<br>1 | 12   | U                       | Westl            | oound<br>T<br>8 | 9            | 1U       | L<br>1<br>0       | T<br>2      | 3        | 4U       | L<br>4     | T<br>5      | ,<br>,<br>T           |
| Movement<br>Priority<br>Number of Lanes<br>Configuration |         | Eastb<br>L<br>10<br>0 | T<br>11<br>1 | 12<br>0  |                         | Westl            | oound<br>T<br>8 | 9            | 1U       | L<br>1<br>0<br>LT | T<br>2<br>1 | 3        | 4U       | L<br>4     | T<br>5<br>1 | F<br>(<br>(<br>T<br>1 |

| Critical and Follow-up H                | eadwa  | ys      |        |      |  |  |      |     |  |  |
|---|--------|---------|--------|------|--|--|------|-----|--|--|
| Base Critical Headway (sec)             |        | 7.1     |        | 6.2  |  |  | 4.1  |     |  |  |
| Critical Headway (sec)                  |        | 6.40    |        | 6.20 |  |  | 4.10 |     |  |  |
| Base Follow-Up Headway (sec)            |        | 3.5     |        | 3.3  |  |  | 2.2  |     |  |  |
| Follow-Up Headway (sec)                 |        | 3.50    |        | 3.30 |  |  | 2.20 |     |  |  |
| Delay, Queue Length, an                 | d Leve | l of Se | ervice |      |  |  |      |     |  |  |
| Flow Rate, v (veh/h)                    |        |         | 25     |      |  |  | 23   |     |  |  |
| Capacity, c (veh/h)                     |        |         | 652    |      |  |  | 1362 |     |  |  |
| v/c Ratio                               |        |         | 0.04   |      |  |  | 0.02 |     |  |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |        |         | 0.1    |      |  |  | 0.1  |     |  |  |
| Control Delay (s/veh)                   |        |         | 10.7   |      |  |  | 7.7  | 0.1 |  |  |
|   |        |         |        |      |  |  |      |     |  |  |

Undivided

0

В

10.7

В

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Percent Grade (%) Right Turn Channelized

Median Type | Storage

Level of Service (LOS)

Approach LOS

Approach Delay (s/veh)

А

А

2.0

А

|  |                  | ŀ                     | ICS 1        | ſwo-'  | Way                                  | Stop                  | -Cor                        | ntrol              | Repc     | ort               |             |          |          |         |             |             |
|--|------------------|-----------------------|--------------|--|--------------------------------------|-----------------------|-----------------------------|--------------------|----------|-------------------|-------------|----------|----------|---------|-------------|-------------|
| General Information  |                  |                       |              |  |                                      |                       | Site                        | Inforr             | natio    | n                 |             |          |          |         |             |             |
| Analyst  | AG               |                       |              |  |                                      |                       | Inters                      | ection             |          |                   | Dwye        | r Avenue | e and So | uth Lot |             |             |
| Agency/Co.   | Erikss           | on                    |              |  |                                      |                       | Jurisd                      | liction            |          |                   | Arling      | ton Heig | ghts     |         |             |             |
| Date Performed   | 9/8/20           | 022                   |              |  |                                      |                       | East/\                      | West Stre          | eet      |                   | South       | Lot      |          |         |             |             |
| Analysis Year  | 2028             |                       |              |  |                                      |                       | North                       | n/South S          | Street   |                   | Dwye        | r Avenue | 9        |         |             |             |
| Time Analyzed  | AM Pe            | eak                   |              |  |                                      |                       | Peak                        | Hour Fac           | tor      |                   | 0.56        |          |          |         |             |             |
| Intersection Orientation   | North            | -South                |              |  |                                      |                       | Analy                       | sis Time           | Period ( | hrs)              | 0.25        |          |          |         |             |             |
| Project Description  | Westo            | gate Sch              | ool          |  |                                      |                       |                             |                    |          |                   |             |          |          |         |             |             |
| Lanes  |                  |                       |              |  |                                      |                       |                             |                    |          |                   |             |          |          |         |             |             |
|  |                  |                       |              | ∳∀≁  |                                      |                       |                             | 4 4 7 4<br>4 1 7 4 |          |                   |             |          |          |         |             |             |
|  |                  |                       |              | <u> 14 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</u> | <mark>ብ ጉ</mark><br><sub>Major</sub> | ۲<br>۲<br>Street: Nor | th-South                    | 74444              |          |                   |             |          |          |         |             |             |
| Vehicle Volumes and Ac   | ljustmei         | nts                   |              | J 4 1 Y 4                                      | A T<br>Major                         | 1 4 4                 | th-South                    | 4 4 2 4 4 4 4      |          |                   |             |          |          |         |             |             |
| Vehicle Volumes and Ac<br>Approach                                   | ljustmei         |                       | ound         | 14 1 Y 4                                       | <mark>ብ ጊ</mark><br>Major            | Street: Nor           | th-South                    | 4 1 7 4 2 7        |          | North             | bound       |          |          | South   | bound       |             |
|  | <b>djustme</b> i |                       | ound         | <b>₽</b> YT ↑ ₽ ſ                              | <b>ብ</b> ጊ<br>Major                  | Street: Nor           | th-South                    | R                  | U        | North             | bound<br>T  | R        | U        | South   | bound       | R           |
| Approach   |                  | Eastb                 |              |  | Major                                | Street: Nor<br>Westl  | th-South                    |                    | U<br>1U  | _                 |             | R<br>3   | U<br>4U  |         |             | R           |
| Approach<br>Movement   |                  | Eastb<br>L            | Т            | R  | Major                                | ・Street: Nor<br>Westl | th-South<br>Dound           | R                  |          | L                 | Т           |          | -        | L       | Т           |             |
| Approach<br>Movement<br>Priority                                     |                  | Eastb<br>L<br>10      | T<br>11      | R<br>12  | Major                                | Street: Nor<br>Westl  | th-South<br>cound<br>T<br>8 | R<br>9             | 1U       | L<br>1            | T<br>2      | 3        | 4U       | L<br>4  | Т<br>5      | 6           |
| Approach<br>Movement<br>Priority<br>Number of Lanes                  |                  | Eastb<br>L<br>10      | T<br>11<br>1 | R<br>12  | Major                                | Street: Nor<br>Westl  | th-South<br>cound<br>T<br>8 | R<br>9             | 1U       | L<br>1<br>0       | T<br>2      | 3        | 4U       | L<br>4  | Т<br>5      | e           |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration |                  | Eastb<br>L<br>10<br>0 | T<br>11<br>1 | R<br>12<br>0                                   | Major                                | Street: Nor<br>Westl  | th-South<br>cound<br>T<br>8 | R<br>9             | 1U       | L<br>1<br>0<br>LT | T<br>2<br>1 | 3        | 4U       | L<br>4  | T<br>5<br>1 | (<br>(<br>T |

|   |        |         |        |      |       |  |  |      |     | 4 | 4 |  |
|---|--------|---------|--------|------|-------|--|--|------|-----|---|---|--|
| Percent Grade (%)                       |        |         | 0      |      |       |  |  |      |     |   |   |  |
| Right Turn Channelized                  |        |         |        |      |       |  |  |      |     |   |   |  |
| Median Type   Storage                   |        |         |        | Undi | vided |  |  |      |     |   |   |  |
| Critical and Follow-up H                | eadwa  | ys      |        |      |       |  |  |      |     |   |   |  |
| Base Critical Headway (sec)             |        | 7.1     |        | 6.2  |       |  |  | 4.1  |     |   |   |  |
| Critical Headway (sec)                  |        | 6.40    |        | 6.20 |       |  |  | 4.10 |     |   |   |  |
| Base Follow-Up Headway (sec)            |        | 3.5     |        | 3.3  |       |  |  | 2.2  |     |   |   |  |
| Follow-Up Headway (sec)                 |        | 3.50    |        | 3.30 |       |  |  | 2.20 |     |   |   |  |
| Delay, Queue Length, an                 | d Leve | l of Se | ervice |      |       |  |  |      |     |   |   |  |
| Flow Rate, v (veh/h)                    |        |         | 30     |      |       |  |  | 29   |     |   |   |  |
| Capacity, c (veh/h)                     |        |         | 646    |      |       |  |  | 1351 |     |   |   |  |
| v/c Ratio                               |        |         | 0.05   |      |       |  |  | 0.02 |     |   |   |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |        |         | 0.1    |      |       |  |  | 0.1  |     |   |   |  |
| Control Delay (s/veh)                   |        |         | 10.9   |      |       |  |  | 7.7  | 0.2 |   |   |  |

В

10.9

В

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Level of Service (LOS)

Approach LOS

Approach Delay (s/veh)

А

2.3

А

А

|   |        | ŀ        | ICS 1 | ſwo-' | Way | Stop                      | -Cor   | ntrol     | Repo     | ort   |        |          |          |         |       |         |
|---|--------|----------|-------|-------|-----|---------------------------|--------|-----------|----------|-------|--------|----------|----------|---------|-------|---------|
| General Information                                   |        |          |       |       |     |                           | Site   | Inform    | natio    | n     |        |          |          |         |       |         |
| Analyst   | AG     |          |       |       |     |                           | Inters | ection    |          |       | Dwye   | r Avenue | e and So | uth Lot |       |         |
| Agency/Co.  | Erikss | son      |       |       |     |                           | Jurisd | liction   |          |       | Arling | ton Hei  | ghts     |         |       |         |
| Date Performed  | 9/8/2  | 022      |       |       |     |                           | East/\ | Nest Stre | eet      |       | South  | Lot      |          |         |       |         |
| Analysis Year   | 2022   |          |       |       |     |                           | North  | /South S  | Street   |       | Dwye   | r Avenue | 9        |         |       |         |
| Time Analyzed   | PM P   | eak      |       |       |     |                           | Peak   | Hour Fac  | tor      |       | 0.56   |          |          |         |       |         |
| Intersection Orientation                              | North  | n-South  |       |       |     |                           | Analy  | sis Time  | Period ( | hrs)  | 0.25   |          |          |         |       |         |
| Project Description                                   | West   | gate Sch | ool   |       |     |                           |        |           |          |       |        |          |          |         |       |         |
| Lanes   |        |          |       |       |     |                           |        |           |          |       |        |          |          |         |       |         |
|   |        |          |       |       |     | ↑<br>↑ ↑ ↑<br>Street: Nor |        |           |          |       |        |          |          |         |       |         |
| Vehicle Volumes and Adj                               | ustme  | nts      |       |       |     |                           |        |           |          |       |        |          |          |         |       |         |
| Approach  |        | Eastb    | ound  |       |     | West                      | bound  |           |          | North | bound  |          |          | South   | bound |         |
| Movement  | U      | L        | Т     | R     | U   | L                         | Т      | R         | U        | L     | Т      | R        | U        | L       | Т     | R       |
| Priority  |        | 10       | 11    | 12    |     | 7                         | 8      | 9         | 1U       | 1     | 2      | 3        | 4U       | 4       | 5     | 6       |
| Number of Lanes                                       |        | 0        | 1     | 0     |     | 0                         | 0      | 0         | 0        | 0     | 1      | 0        | 0        | 0       | 1     | 0       |
| Configuration   |        |          | LR    |       |     |                           |        |           |          | LT    |        |          |          |         |       |         |
|   |        | 3        |       | 22    |     |                           |        |           |          | 7     | 49     |          |          |         | 137   | TR      |
| Volume (veh/h)  |        |          | 1     |       |     |                           |        |           |          | 0     |        |          |          |         |       | TR<br>6 |
| Volume (veh/h)<br>Percent Heavy Vehicles (%)          |        | 0        |       | 0     |     |                           |        |           |          |       |        |          |          |         |       |         |
|   |        | 0        |       | 0     |     |                           |        |           |          |       |        |          |          |         |       |         |
| Percent Heavy Vehicles (%)                            |        |          | 0     | 0     |     |                           |        |           |          |       |        |          |          |         |       |         |
| Percent Heavy Vehicles (%)<br>Proportion Time Blocked |        |          | 0     | 0     |     |                           |        |           |          |       |        |          |          |         |       |         |

| Critical and Follow-up He               | adwa   | ys      |        |      |  |   |      |     |   |   |   |  |
|---|--------|---------|--------|------|--|---|------|-----|---|---|---|--|
| Base Critical Headway (sec)             |        | 7.1     |        | 6.2  |  |   | 4.1  |     |   |   |   |  |
| Critical Headway (sec)                  |        | 6.40    |        | 6.20 |  |   | 4.10 |     |   |   |   |  |
| Base Follow-Up Headway (sec)            |        | 3.5     |        | 3.3  |  |   | 2.2  |     |   |   |   |  |
| Follow-Up Headway (sec)                 |        | 3.50    |        | 3.30 |  |   | 2.20 |     |   |   |   |  |
| Delay, Queue Length, and                | l Leve | l of Se | ervice |      |  |   |      |     |   |   |   |  |
| Flow Rate, v (veh/h)                    |        |         | 45     |      |  |   | 13   |     |   |   |   |  |
| Capacity, c (veh/h)                     |        |         | 724    |      |  |   | 1321 |     |   |   |   |  |
| v/c Ratio                               |        |         | 0.06   |      |  |   | 0.01 |     |   |   |   |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |        |         | 0.2    |      |  |   | 0.0  |     |   |   |   |  |
| Control Delay (s/veh)                   |        |         | 10.3   |      |  |   | 7.8  | 0.1 |   |   |   |  |
| Level of Service (LOS)                  |        |         | В      |      |  |   | А    | А   |   |   |   |  |
| Approach Delay (s/veh)                  |        | - 1(    | ).3    | -    |  | - | 1.   | 0   | - | - | - |  |
| Approach LOS                            |        | I       | В      |      |  |   | A    | 4   |   |   |   |  |

|                            |         | ŀ        | ICS 1 | Гwo-' | Way                            | Stop                    | -Cor              | ntrol     | Repc     | ort  |        |          |          |         |       |    |
|----------------------------|---------|----------|-------|-------|--------------------------------|-------------------------|-------------------|-----------|----------|------|--------|----------|----------|---------|-------|----|
| General Information        |         |          |       |       |                                |                         | Site              | Inforr    | natio    | n    |        |          |          |         |       |    |
| Analyst                    | AG      |          |       |       |                                |                         | Inters            | ection    |          |      | Dwye   | r Avenu  | e and So | uth Lot |       |    |
| Agency/Co.                 | Erikss  | on       |       |       |                                |                         | Jurisd            | liction   |          |      | Arling | gton Hei | ghts     |         |       |    |
| Date Performed             | 9/8/2   | 022      |       |       |                                |                         | East/\            | Nest Stre | eet      |      | South  | n Lot    |          |         |       |    |
| Analysis Year              | 2028    |          |       |       |                                |                         | North             | /South S  | Street   |      | Dwye   | r Avenu  | e        |         |       |    |
| Time Analyzed              | PM P    | eak      |       |       |                                |                         | Peak              | Hour Fac  | ctor     |      | 0.56   |          |          |         |       |    |
| Intersection Orientation   | North   | n-South  |       |       |                                |                         | Analy             | sis Time  | Period ( | hrs) | 0.25   |          |          |         |       |    |
| Project Description        | West    | gate Sch | ool   |       |                                |                         |                   |           |          |      |        |          |          |         |       |    |
| Lanes                      |         |          |       |       |                                |                         |                   |           |          |      |        |          |          |         |       |    |
|                            |         |          |       |       | <b>ብ</b> ገ<br><sub>Major</sub> | イ<br>イヤイ<br>Street: Nor | ↑ ۲ ۲<br>th-South |           |          |      |        |          |          |         |       |    |
| Vehicle Volumes and A      | djustme |          |       |       |                                |                         |                   |           |          |      |        |          |          |         |       |    |
| Approach                   | _       |          | ound  |       |                                |                         | oound             |           |          |      | bound  |          |          |         | bound |    |
| Movement                   | U       | L        | Т     | R     | U                              | L                       | Т                 | R         | U        | L    | Т      | R        | U        | L       | Т     | R  |
| Priority                   | _       | 10       | 11    | 12    |                                | 7                       | 8                 | 9         | 1U       | 1    | 2      | 3        | 4U       | 4       | 5     | 6  |
| Number of Lanes            | _       | 0        | 1     | 0     |                                | 0                       | 0                 | 0         | 0        | 0    | 1      | 0        | 0        | 0       | 1     | 0  |
| Configuration              |         |          | LR    |       |                                |                         |                   |           |          | LT   |        |          |          |         |       | TR |
| Volume (veh/h)             |         | 4        |       | 25    |                                |                         |                   |           |          | 8    | 50     |          |          |         | 152   | 7  |
| Percent Heavy Vehicles (%) | _       | 0        |       | 0     |                                |                         |                   |           |          | 0    |        |          |          |         |       |    |
| Proportion Time Blocked    |         |          |       |       |                                |                         |                   |           |          |      |        |          |          |         |       |    |
| Percent Grade (%)          |         | (        | 0     |       |                                |                         |                   |           |          |      |        |          |          |         |       |    |
| Right Turn Channelized     |         |          |       |       |                                |                         |                   |           |          |      |        |          |          |         |       |    |
| Median Type   Storage      |         |          |       | Undi  | vided                          |                         |                   |           |          |      |        |          |          |         |       |    |

| Critical and Follow-up He               | adwa   | ys      |        |      |  |  |      |     |  |  |  |
|---|--------|---------|--------|------|--|--|------|-----|--|--|--|
| Base Critical Headway (sec)             |        | 7.1     |        | 6.2  |  |  | 4.1  |     |  |  |  |
| Critical Headway (sec)                  |        | 6.40    |        | 6.20 |  |  | 4.10 |     |  |  |  |
| Base Follow-Up Headway (sec)            |        | 3.5     |        | 3.3  |  |  | 2.2  |     |  |  |  |
| Follow-Up Headway (sec)                 |        | 3.50    |        | 3.30 |  |  | 2.20 |     |  |  |  |
| Delay, Queue Length, and                | l Leve | l of Se | ervice |      |  |  |      |     |  |  |  |
| Flow Rate, v (veh/h)                    |        |         | 52     |      |  |  | 14   |     |  |  |  |
| Capacity, c (veh/h)                     |        |         | 688    |      |  |  | 1290 |     |  |  |  |
| v/c Ratio                               |        |         | 0.08   |      |  |  | 0.01 |     |  |  |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |        |         | 0.2    |      |  |  | 0.0  |     |  |  |  |
| Control Delay (s/veh)                   |        |         | 10.7   |      |  |  | 7.8  | 0.1 |  |  |  |
| Level of Service (LOS)                  |        |         | В      |      |  |  | А    | А   |  |  |  |
| Approach Delay (s/veh)                  |        | 1(      | ).7    |      |  |  | 1    | .2  |  |  |  |
| Approach LOS                            |        | I       | В      |      |  |  | ļ    | Ą   |  |  |  |

|  |         | ŀ                   | ICS 1   | ۲-wo      | Way   | Stop                      | -Cor                           | ntrol                                      | Repo     | ort                    |             |          |          |           |             |              |
|--|---------|---------------------|---------|-----------|-------|---------------------------|--------------------------------|--|----------|------------------------|-------------|----------|----------|-----------|-------------|--------------|
| General Information  |         |                     |         |           |       |                           | Site                           | Inforr                                     | natio    | า                      |             |          |          |           |             |              |
| Analyst  | AG      |                     |         |           |       |                           | Inters                         | ection                                     |          |                        | Dwye        | r Avenue | e and We | est Lot E | nter        |              |
| Agency/Co.   | Erikss  | on                  |         |           |       |                           | Jurisd                         | liction                                    |          |                        | Arling      | ton Heig | ghts     |           |             |              |
| Date Performed   | 9/8/20  | )22                 |         |           |       |                           | East/\                         | West Stre                                  | eet      |                        | West        | Lot      |          |           |             |              |
| Analysis Year  | 2022    |                     |         |           |       |                           | North                          | /South                                     | Street   |                        | Dwye        | r Avenue | 9        |           |             |              |
| Time Analyzed  | AM Pe   | eak                 |         |           |       |                           | Peak                           | Hour Fac                                   | ctor     |                        | 0.40        |          |          |           |             |              |
| Intersection Orientation   | North   | -South              |         |           |       |                           | Analy                          | sis Time                                   | Period ( | hrs)                   | 0.25        |          |          |           |             |              |
| Project Description  | Westo   | ate Scho            | ool     |           |       |                           |                                |  |          |                        |             |          |          |           |             |              |
| Lanes  |         |                     |         |           |       |                           |                                |  |          |                        |             |          |          |           |             |              |
|  |         |                     |         | 4 4 7 4 4 |       |                           |                                | 2 4 4 <u>7</u> 4 4                         |          |                        |             |          |          |           |             |              |
|  |         |                     |         | 1412445   |       | 1<br>1 수 Y<br>Street: Nor | th-South                       | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4      |          |                        |             |          |          |           |             |              |
| Vehicle Volumes and Ad   | djustme | nts                 |         | 14777     |       |                           | <mark>ት ቅ ሾ</mark><br>th-South | 4 4 7 4 4<br>4                             |          |                        |             |          |          |           |             |              |
| Vehicle Volumes and Ac   | djustme | <b>nts</b><br>Eastb | ound    | 141741    |       | Street: Nor               | <mark>ት ኑ ሶ</mark><br>th-South | 4 4 7 4 4<br>4                             |          | North                  | bound       |          |          | South     | bound       |              |
|  | djustme |                     | ound    | R         |       | Street: Nor               |                                | 4 4 7 4 4<br>4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | U        | North                  | bound       | R        | U        | South     | bound       | R            |
| Approach   |         | Eastb               |         |           | Major | Street: Nor<br>Westl      | bound                          | 4 1 7 4 1 7                                | U<br>1U  |                        |             | R<br>3   | U<br>4U  |           | 1           | R<br>6       |
| Approach<br>Movement   |         | Eastb<br>L          | Т       | R         | Major | Street: Nor<br>Westl      | oound<br>T                     | R  | -        | L                      | Т           |          |          | L         | Т           |              |
| Approach<br>Movement<br>Priority   |         | Eastb<br>L<br>10    | T<br>11 | R<br>12   | Major | Westl                     | oound<br>T<br>8                | R<br>9                                     | 10       | L<br>1                 | T<br>2      | 3        | 4U       | L<br>4    | Т<br>5      | 6            |
| Approach<br>Movement<br>Priority<br>Number of Lanes                        |         | Eastb<br>L<br>10    | T<br>11 | R<br>12   | Major | Westl                     | oound<br>T<br>8                | R<br>9                                     | 10       | L<br>1<br>0            | T<br>2      | 3        | 4U       | L<br>4    | Т<br>5      | 6<br>0       |
| Approach<br>Movement<br>Priority<br>Number of Lanes<br>Configuration       |         | Eastb<br>L<br>10    | T<br>11 | R<br>12   | Major | Westl                     | oound<br>T<br>8                | R<br>9                                     | 10       | L<br>1<br>0<br>LT      | T<br>2<br>1 | 3        | 4U       | L<br>4    | T<br>5<br>1 | 6<br>0<br>TF |
| Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h) |         | Eastb<br>L<br>10    | T<br>11 | R<br>12   | Major | Westl                     | oound<br>T<br>8                | R<br>9                                     | 10       | L<br>1<br>0<br>LT<br>4 | T<br>2<br>1 | 3        | 4U       | L<br>4    | T<br>5<br>1 | 6<br>0<br>TF |

Right Turn Channelized

Median Type | Storage

| Critical and Follow-up H                | eadwa  | ys     |        |  |  |  |      |     |  |  |  |
|---|--------|--------|--------|--|--|--|------|-----|--|--|--|
| Base Critical Headway (sec)             | Τ      |        |        |  |  |  | 4.1  |     |  |  |  |
| Critical Headway (sec)                  |        |        |        |  |  |  | 4.10 |     |  |  |  |
| Base Follow-Up Headway (sec)            |        |        |        |  |  |  | 2.2  |     |  |  |  |
| Follow-Up Headway (sec)                 |        |        |        |  |  |  | 2.20 |     |  |  |  |
| Delay, Queue Length, an                 | d Leve | l of S | ervice |  |  |  |      |     |  |  |  |
| Flow Rate, v (veh/h)                    | Τ      |        |        |  |  |  | 10   |     |  |  |  |
| Capacity, c (veh/h)                     |        |        |        |  |  |  | 1238 |     |  |  |  |
| v/c Ratio                               |        |        |        |  |  |  | 0.01 |     |  |  |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |        |        |        |  |  |  | 0.0  |     |  |  |  |
| Control Delay (s/veh)                   | Τ      |        |        |  |  |  | 7.9  | 0.1 |  |  |  |
| Level of Service (LOS)                  |        |        |        |  |  |  | А    | А   |  |  |  |
| Approach Delay (s/veh)                  |        |        |        |  |  |  | 0.   | .7  |  |  |  |
| Approach LOS                            |        |        |        |  |  |  | ļ    | Ą   |  |  |  |

Undivided

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|                            |        | ŀ        | ICS 1 | Гwo-' | Way   | Stop                  | -Cor   | ntrol     | Repc     | ort   |        |          |          |           |       |   |
|----------------------------|--------|----------|-------|-------|-------|-----------------------|--------|-----------|----------|-------|--------|----------|----------|-----------|-------|---|
| General Information        |        |          |       |       |       |                       | Site   | Inform    | natio    | า     |        |          |          |           |       |   |
| Analyst                    | AG     |          |       |       |       |                       | Inters | ection    |          |       | Dwye   | r Avenue | e and We | est Lot E | xit   |   |
| Agency/Co.                 | Erikss | on       |       |       |       |                       | Jurisd | iction    |          |       | Arling | ton Hei  | ghts     |           |       |   |
| Date Performed             | 9/8/2  | 022      |       |       |       |                       | East/\ | Nest Stre | eet      |       | West   | Lot      |          |           |       |   |
| Analysis Year              | 2022   |          |       |       |       |                       | North  | /South S  | Street   |       | Dwye   | r Avenue | 9        |           |       |   |
| Time Analyzed              | AM P   | eak      |       |       |       |                       | Peak   | Hour Fac  | tor      |       | 0.40   |          |          |           |       |   |
| Intersection Orientation   | North  | -South   |       |       |       |                       | Analy  | sis Time  | Period ( | hrs)  | 0.25   |          |          |           |       |   |
| Project Description        | West   | gate Sch | ool   |       |       |                       |        |           |          |       |        |          |          |           |       |   |
| Lanes                      |        |          |       |       |       |                       |        |           |          |       |        |          |          |           |       |   |
|                            |        |          |       |       |       | 1<br>1<br>Street: Nor |        |           |          |       |        |          |          |           |       |   |
| Vehicle Volumes and Adju   | ustme  |          |       |       |       |                       |        |           |          |       |        |          |          |           |       |   |
| Approach                   |        |          | ound  |       |       |                       | bound  |           |          | North |        |          |          |           | bound |   |
| Movement                   | U      | L        | Т     | R     | U     | L                     | Т      | R         | U        | L     | Т      | R        | U        | L         | Т     | R |
| Priority                   |        | 10       | 11    | 12    |       | 7                     | 8      | 9         | 1U       | 1     | 2      | 3        | 4U       | 4         | 5     | 6 |
| Number of Lanes            |        | 0        | 1     | 0     |       | 0                     | 0      | 0         | 0        | 0     | 1      | 0        | 0        | 0         | 1     | 0 |
| Configuration              |        |          | LR    |       |       |                       |        |           |          |       | Т      |          |          |           | Т     |   |
| Volume (veh/h)             |        | 9        |       | 82    |       |                       |        |           |          |       | 42     |          |          |           | 41    |   |
| Percent Heavy Vehicles (%) |        | 0        |       | 0     |       |                       |        |           |          |       |        |          |          |           |       |   |
| Proportion Time Blocked    |        |          |       |       |       |                       |        |           |          |       |        |          |          |           |       |   |
| Percent Grade (%)          |        | (        | )     |       |       |                       |        |           |          |       |        |          |          |           |       |   |
| Right Turn Channelized     |        |          |       |       |       |                       |        |           |          |       |        |          |          |           |       |   |
| Median Type   Storage      |        |          |       |       | vided |                       |        |           |          |       |        |          |          |           |       |   |

| Critical and Follow-up He               | auwa   | ys      |        |      |   |  |  |   |   |   |  |
|---|--------|---------|--------|------|---|--|--|---|---|---|--|
| Base Critical Headway (sec)             |        | 7.1     |        | 6.2  |   |  |  |   |   |   |  |
| Critical Headway (sec)                  |        | 6.40    |        | 6.20 |   |  |  |   |   |   |  |
| Base Follow-Up Headway (sec)            |        | 3.5     |        | 3.3  |   |  |  |   |   |   |  |
| Follow-Up Headway (sec)                 |        | 3.50    |        | 3.30 |   |  |  |   |   |   |  |
| Delay, Queue Length, and                | l Leve | l of Se | ervice |      |   |  |  |   |   |   |  |
| Flow Rate, v (veh/h)                    |        |         | 228    |      |   |  |  |   |   |   |  |
| Capacity, c (veh/h)                     |        |         | 903    |      |   |  |  |   |   |   |  |
| v/c Ratio                               |        |         | 0.25   |      |   |  |  |   |   |   |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |        |         | 1.0    |      |   |  |  |   |   |   |  |
| Control Delay (s/veh)                   |        |         | 10.3   |      |   |  |  |   |   |   |  |
| Level of Service (LOS)                  |        |         | В      |      |   |  |  |   |   |   |  |
| Approach Delay (s/veh)                  |        | - 10    | ).3    |      | - |  |  | - | - | - |  |
| Approach LOS                            |        | I       | В      |      |   |  |  |   |   |   |  |

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|   |         | F           | ICS 1   |              |   |                           |          |           |          |       |        |          |          |           |       |             |
|---|---------|-------------|---------|--------------|---|---------------------------|----------|-----------|----------|-------|--------|----------|----------|-----------|-------|-------------|
| General Information   |         |             |         |              |   |                           | Site     | Inforr    | natior   | า     |        |          |          |           |       |             |
| Analyst   | AG      |             |         |              |   |                           | Inters   | ection    |          |       | Dwye   | r Avenue | e and We | est Lot E | xit   |             |
| Agency/Co.  | Erikss  | on          |         |              |   |                           | Jurisc   | liction   |          |       | Arling | ton Heig | ghts     |           |       |             |
| Date Performed  | 9/8/2   | 022         |         |              |   |                           | East/    | West Stre | eet      |       | West   | Lot      |          |           |       |             |
| Analysis Year   | 2022    |             |         |              |   |                           | North    | n/South S | Street   |       | Dwye   | r Avenue | 9        |           |       |             |
| Time Analyzed   | PM Pe   | eak         |         |              |   |                           | Peak     | Hour Fac  | ctor     |       | 0.41   |          |          |           |       |             |
| Intersection Orientation  | North   | -South      |         |              |   |                           | Analy    | sis Time  | Period ( | hrs)  | 0.25   |          |          |           |       |             |
| Project Description   | West    | gate Sch    | ool     |              |   |                           |          |           |          |       |        |          |          |           |       |             |
| Lanes   |         |             |         |              |   |                           |          |           |          |       |        |          |          |           |       |             |
| Vehicle Volumes and A   | diustme | nts         |         |              |   | ↑<br>↑ ↑ ↑<br>Street: Nor | th-South |           |          |       |        |          |          |           |       |             |
| Approach  |         |             | ound    |              |   | West                      | oound    |           |          | North | bound  |          |          | South     | bound | _           |
| Арргоаст  | U       | L           | Т       | R            | U | L                         | Т        | R         | U        | L     | T      | R        | U        | L         | Т     |             |
| Movement  | 0       | 10          | 11      | 12           | 0 | 7                         | 8        | 9         | 1U       | 1     | 2      | 3        | 4U       | 4         | 5     | E           |
| Priority  |         |             |         | 14           |   | '                         | U U      |           |          |       |        | 0        | 0        | 0         | 1     |             |
| Priority  | _       |             | 1       | 0            |   | 0                         | 0        | 0         |          | 0     | 1      |          |          | U U       |       | 6           |
| Priority Number of Lanes  | _       | 0           | 1<br>LR | 0            |   | 0                         | 0        | 0         | 0        | 0     | 1<br>T | 0        |          |           |       | 6           |
| Priority<br>Number of Lanes<br>Configuration  |         | 0           | 1<br>LR |              |   | 0                         | 0        | 0         | 0        | 0     | Т      |          |          |           | Т     | R<br>6<br>0 |
| Priority Number of Lanes  |         |             |         | 0<br>30<br>0 |   | 0                         | 0        | 0         | 0        | 0     |        |          |          |           |       | 6           |
| Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)  |         | 0           |         | 30           |   | 0                         | 0        | 0         | 0        | 0     | Т      |          |          |           | Т     | 6           |
| Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)                            |         | 0<br>5<br>0 |         | 30           |   | 0                         | 0        | 0         | 0        | 0     | Т      |          |          |           | Т     | 6           |
| Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked |         | 0<br>5<br>0 | LR      | 30           |   | 0                         | 0        | 0         |          |       | Т      |          |          |           | Т     | 6           |

| Critical and Follow-up He               | auwa   | ys      |        |      |  |   |  |   |  |   |   |  |
|---|--------|---------|--------|------|--|---|--|---|--|---|---|--|
| Base Critical Headway (sec)             |        | 7.1     |        | 6.2  |  |   |  |   |  |   |   |  |
| Critical Headway (sec)                  |        | 6.40    |        | 6.20 |  |   |  |   |  |   |   |  |
| Base Follow-Up Headway (sec)            |        | 3.5     |        | 3.3  |  |   |  |   |  |   |   |  |
| Follow-Up Headway (sec)                 |        | 3.50    |        | 3.30 |  |   |  |   |  |   |   |  |
| Delay, Queue Length, and                | l Leve | l of Se | ervice |      |  |   |  |   |  |   |   |  |
| Flow Rate, v (veh/h)                    |        |         | 85     |      |  |   |  |   |  |   |   |  |
| Capacity, c (veh/h)                     |        |         | 732    |      |  |   |  |   |  |   |   |  |
| v/c Ratio                               |        |         | 0.12   |      |  |   |  |   |  |   |   |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |        |         | 0.4    |      |  |   |  |   |  |   |   |  |
| Control Delay (s/veh)                   |        |         | 10.6   |      |  |   |  |   |  |   |   |  |
| Level of Service (LOS)                  |        |         | В      |      |  |   |  |   |  |   |   |  |
| Approach Delay (s/veh)                  |        | - 10    | ).6    |      |  | - |  | - |  | - | - |  |
| Approach LOS                            |        | I       | 3      |      |  |   |  |   |  |   |   |  |

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|  |        |          | ICS - |                            |                                      |                               |          |   | pc       | 10    |        |          |          |         |          |    |
|--|--------|----------|-------|----------------------------|--------------------------------------|-------------------------------|----------|---|----------|-------|--------|----------|----------|---------|----------|----|
| General Information  |        | _        | _     |                            | _                                    | _                             | Site     | Inforr                                  | natio    | ı     |        |          |          | _       |          | _  |
| Analyst  | AG     |          |       |                            |                                      |                               | Inters   | ection                                  |          |       | Dwye   | r Avenu  | e and We | est Lot |          |    |
| Agency/Co.   | Erikss | son      |       |                            |                                      |                               | Jurisd   | liction                                 |          |       | Arling | gton Hei | ghts     |         |          |    |
| Date Performed   | 9/8/2  | 022      |       |                            |                                      |                               | East/\   | West Stre                               | eet      |       | West   | Lot      |          |         |          |    |
| Analysis Year  | 2028   |          |       |                            |                                      |                               | North    | n/South S                               | Street   |       | Dwye   | r Avenu  | e        |         |          |    |
| Time Analyzed  | AM P   | eak      |       |                            |                                      |                               | Peak     | Hour Fac                                | ctor     |       | 0.40   |          |          |         |          |    |
| Intersection Orientation   | North  | n-South  |       |                            |                                      |                               | Analy    | sis Time                                | Period ( | hrs)  | 0.25   |          |          |         |          |    |
| Project Description  | West   | gate Sch | ool   |                            |                                      |                               |          |   |          |       |        |          |          |         |          |    |
| Lanes  |        |          |       |                            |                                      |                               |          |   |          |       |        |          |          |         |          |    |
|  |        |          |       | 14 4 7 4 P 7               | <mark>ብ</mark> ኘ<br><sub>Major</sub> | ी<br>भे के Y<br>r Street: Nor | th-South | 4 4 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |          |       |        |          |          |         |          |    |
| Vehicle Volumes and Ad   | justme |          | ound  |                            |                                      | West                          | bound    |   |          | North | bound  |          |          | South   | bound    |    |
| Movement   | U      | L        | Т     | R                          | U                                    | L                             | Т        | R                                       | U        | L     | Т      | R        | U        | L       | Т        | R  |
| Priority   |        | 10       | 11    | 12                         | -                                    | 7                             | 8        | 9                                       | 10       | 1     | 2      | 3        | 4U       | 4       | 5        | 6  |
| Number of Lanes  | +      | 0        | 0     | 1                          |                                      | 0                             | 0        | 0                                       | 0        | 0     | 1      | 0        | 0        | 0       | 1        | 0  |
| Configuration  |        | <u> </u> |       | R                          |                                      |                               |          |   |          |       | Т      |          |          |         | <u> </u> | TR |
| Volume (veh/h)   |        |          |       | 83                         |                                      |                               |          |   |          |       | 43     |          |          |         | 45       | 84 |
| Percent Heavy Vehicles (%)   |        |          |       | 0                          |                                      |                               |          |   |          |       |        |          |          |         |          |    |
| Proportion Time Blocked  | +      |          |       |                            |                                      |                               |          |   |          |       |        |          |          |         |          |    |
| Percent Grade (%)  |        |          | 0     |                            |                                      |                               |          |   |          |       | I      | I        |          | I       | 1        |    |
|  | +      | Ν        | 10    |                            |                                      |                               |          |   |          |       |        |          |          |         |          |    |
| Right Turn Channelized   |        |          | 10    |                            |                                      |                               |          |   |          |       |        |          |          |         |          |    |
| Right Turn Channelized<br>Median Type   Storage  | 1      |          |       | Undi                       | vided                                |                               |          |   |          |       |        |          |          |         |          |    |
| Median Type   Storage  | eadwa  |          |       | Undi                       | vided                                |                               |          |   |          |       |        |          |          |         |          |    |
| Median Type   Storage  | eadwa  |          |       | Undi<br>6.2                | vided                                |                               |          |   |          |       |        |          |          |         |          |    |
| Median Type   Storage Critical and Follow-up H   | eadwa  |          |       |                            | vided                                |                               |          |   |          |       |        |          |          |         |          |    |
| Median Type   Storage<br>Critical and Follow-up H<br>Base Critical Headway (sec)   | eadwa  |          |       | 6.2                        | vided                                |                               |          |   |          |       |        |          |          |         |          |    |
| Median Type   Storage<br><b>Critical and Follow-up H</b><br>Base Critical Headway (sec)<br>Critical Headway (sec)  | eadwa  |          |       | 6.2<br>6.20                | vided                                |                               |          |   |          |       |        |          |          |         |          |    |
| Median Type   Storage<br>Critical and Follow-up H<br>Base Critical Headway (sec)<br>Critical Headway (sec)<br>Base Follow-Up Headway (sec)   |        | ys       |       | 6.2<br>6.20<br>3.3<br>3.30 | vided                                |                               |          |   |          |       |        |          |          |         |          |    |
| Median Type   Storage<br>Critical and Follow-up H<br>Base Critical Headway (sec)<br>Critical Headway (sec)<br>Base Follow-Up Headway (sec)<br>Follow-Up Headway (sec)                            |        | ys       |       | 6.2<br>6.20<br>3.3<br>3.30 | vided                                |                               |          |   |          |       |        |          |          |         |          |    |
| Median Type   Storage<br>Critical and Follow-up H<br>Base Critical Headway (sec)<br>Critical Headway (sec)<br>Base Follow-Up Headway (sec)<br>Follow-Up Headway (sec)<br>Delay, Queue Length, an |        | ys       |       | 6.2<br>6.20<br>3.3<br>3.30 | vided                                |                               |          |   |          |       |        |          |          |         |          |    |

95% Queue Length, Q<sub>95</sub> (veh)

Control Delay (s/veh)

Level of Service (LOS) Approach Delay (s/veh)

Approach LOS

1.0

11.1 B

11.1

В

|  |        |                  |               |         |   |                             |            |             | Repo     |                                 |             |         |          |            |             | _                       |
|--|--------|------------------|---------------|---------|---|-----------------------------|------------|-------------|----------|---------------------------------|-------------|---------|----------|------------|-------------|-------------------------|
| General Information  |        |                  |               |         |   |                             | Site       | Inforr      | natio    | n                               |             |         |          |            |             |                         |
| Analyst  | AG     |                  |               |         |   |                             | Inters     | ection      |          |                                 | Dwye        | r Avenu | e and We | est Lot    |             |                         |
| Agency/Co.   | Erikss | on               |               |         |   |                             | Jurisd     | liction     |          |                                 | Arling      | ton Hei | ghts     |            |             |                         |
| Date Performed   | 9/8/2  | 022              |               |         |   |                             | East/\     | Nest Stre   | eet      |                                 | West        | Lot     |          |            |             |                         |
| Analysis Year  | 2022   |                  |               |         |   |                             | North      | /South S    | Street   |                                 | Dwye        | r Avenu | е        |            |             |                         |
| Time Analyzed  | PM P   | eak              |               |         |   |                             | Peak       | Hour Fac    | ctor     |                                 | 0.41        |         |          |            |             |                         |
| Intersection Orientation   | North  | n-South          |               |         |   |                             | Analy      | sis Time    | Period ( | hrs)                            | 0.25        |         |          |            |             |                         |
| Project Description  | West   | gate Sch         | ool           |         |   |                             |            |             |          |                                 |             |         |          |            |             |                         |
| Lanes  |        |                  |               |         |   |                             |            |             |          |                                 |             |         |          |            |             |                         |
| Vehicle Volumes and Ad   | justme |                  |               | 1417471 |   | 1<br>1 4 Y<br>r Street: Nor |            | 4 1 7 4 4 7 |          |                                 |             |         |          |            |             |                         |
|  |        |                  |               |         |   |                             |            |             |          |                                 |             |         |          |            |             |                         |
| Approach   |        | Eastb            | ound          |         |   | West                        | oound      |             |          | North                           | bound       |         |          | South      | bound       | _                       |
| Approach<br>Movement   | U      | Eastb<br>L       | ound<br>T     | R       | U | West                        | oound<br>T | R           | U        | North<br>L                      | bound<br>T  | R       | U        | South<br>L | bound<br>T  | R                       |
|  | U      |                  | 1             | R<br>12 | U | 1                           |            | R<br>9      | U<br>1U  |                                 |             | R<br>3  | U<br>4U  |            | 1           |                         |
| Movement<br>Priority<br>Number of Lanes  | U      | L                | Т             |         | U | L                           | Т          |             | -        | L                               | Т           |         |          | L          | Т           | 6                       |
| Movement<br>Priority   |        | L<br>10          | T<br>11       | 12      | U | L<br>7                      | Т<br>8     | 9           | 1U       | L<br>1                          | T<br>2      | 3       | 4U       | L<br>4     | T<br>5      | 6<br>0                  |
| Movement<br>Priority<br>Number of Lanes  |        | L<br>10          | T<br>11       | 12      |   | L<br>7                      | Т<br>8     | 9           | 1U       | L<br>1<br>0                     | T<br>2      | 3       | 4U       | L<br>4     | T<br>5      | 6<br>0<br>TF            |
| Movement<br>Priority<br>Number of Lanes<br>Configuration   |        | L<br>10          | T<br>11       | 12      |   | L<br>7                      | Т<br>8     | 9           | 1U       | L<br>1<br>0<br>LT               | T<br>2<br>1 | 3       | 4U       | L<br>4     | T<br>5<br>1 | 6<br>0<br>TF            |
| Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)   |        | L<br>10          | T<br>11       | 12      |   | L<br>7                      | Т<br>8     | 9           | 1U       | L<br>1<br>0<br>LT<br>6          | T<br>2<br>1 | 3       | 4U       | L<br>4     | T<br>5<br>1 | 6<br>0<br>TF            |
| Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)   |        | L<br>10          | T<br>11       | 12      |   | L<br>7                      | Т<br>8     | 9           | 1U       | L<br>1<br>0<br>LT<br>6          | T<br>2<br>1 | 3       | 4U       | L<br>4     | T<br>5<br>1 | R<br>6<br>0<br>TF<br>25 |
| Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked  |        | L<br>10          | T<br>11       | 12      |   | L<br>7                      | Т<br>8     | 9           | 1U       | L<br>1<br>0<br>LT<br>6          | T<br>2<br>1 | 3       | 4U       | L<br>4     | T<br>5<br>1 | 6<br>0<br>TF            |
| Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)   |        | L<br>10          | T<br>11       | 12<br>0 | U | L<br>7                      | Т<br>8     | 9           | 1U       | L<br>1<br>0<br>LT<br>6          | T<br>2<br>1 | 3       | 4U       | L<br>4     | T<br>5<br>1 | 6<br>0<br>TF            |
| Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage  |        | L<br>10<br>0     | T<br>11       | 12<br>0 |   | L<br>7                      | Т<br>8     | 9           | 1U       | L<br>1<br>0<br>LT<br>6          | T<br>2<br>1 | 3       | 4U       | L<br>4     | T<br>5<br>1 | 6<br>0<br>TF            |
| Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage  |        | L<br>10<br>0     | T<br>11       | 12<br>0 |   | L<br>7                      | Т<br>8     | 9           | 1U       | L<br>1<br>0<br>LT<br>6          | T<br>2<br>1 | 3       | 4U       | L<br>4     | T<br>5<br>1 | 6<br>0<br>TF            |
| Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage<br>Critical and Follow-up H  |        | L<br>10<br>0     | T<br>11       | 12<br>0 |   | L<br>7                      | Т<br>8     | 9           | 1U       | L<br>1<br>0<br>LT<br>6<br>0     | T<br>2<br>1 | 3       | 4U       | L<br>4     | T<br>5<br>1 | 6<br>0<br>Ti            |
| Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage<br>Critical and Follow-up H<br>Base Critical Headway (sec)   |        | L<br>10<br>0     | T<br>11       | 12<br>0 |   | L<br>7                      | Т<br>8     | 9           | 1U       | L<br>1<br>0<br>LT<br>6<br>0     | T<br>2<br>1 | 3       | 4U       | L<br>4     | T<br>5<br>1 | 6<br>0<br>TI            |
| Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage<br><b>Critical and Follow-up H</b><br>Base Critical Headway (sec)<br>Critical Headway (sec)<br>Base Follow-Up Headway (sec)                            |        | L<br>10<br>0     | T<br>11       | 12<br>0 |   | L<br>7                      | Т<br>8     | 9           | 1U       | L<br>1<br>0<br>LT<br>6<br>0<br> | T<br>2<br>1 | 3       | 4U       | L<br>4     | T<br>5<br>1 | 6<br>0<br>Ti            |
| Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage<br><b>Critical and Follow-up H</b><br>Base Critical Headway (sec)<br>Critical Headway (sec)<br>Base Follow-Up Headway (sec)<br>Follow-Up Headway (sec) |        | L<br>10<br>0<br> | T<br>111<br>0 | 12<br>0 |   | L<br>7                      | Т<br>8     | 9           | 1U       | L<br>1<br>0<br>LT<br>6<br>0<br> | T<br>2<br>1 | 3       | 4U       | L<br>4     | T<br>5<br>1 | 6<br>0<br>Ti            |
| Movement<br>Priority<br>Number of Lanes<br>Configuration<br>Volume (veh/h)<br>Percent Heavy Vehicles (%)<br>Proportion Time Blocked<br>Percent Grade (%)<br>Right Turn Channelized<br>Median Type   Storage<br><b>Critical and Follow-up H</b><br>Base Critical Headway (sec)<br>Critical Headway (sec)<br>Base Follow-Up Headway (sec)                            |        | L<br>10<br>0<br> | T<br>111<br>0 | 12<br>0 |   | L<br>7                      | Т<br>8     | 9           | 1U       | L<br>1<br>0<br>LT<br>6<br>0<br> | T<br>2<br>1 | 3       | 4U       | L<br>4     | T<br>5<br>1 | 6<br>0<br>TI            |

| Flow Rate, v (veh/h)                    |  |  |  |  | 15   |     |  |  |  |
|---|--|--|--|--|------|-----|--|--|--|
| Capacity, c (veh/h)                     |  |  |  |  | 1234 |     |  |  |  |
| v/c Ratio                               |  |  |  |  | 0.01 |     |  |  |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |  |  |  |  | 0.0  |     |  |  |  |
| Control Delay (s/veh)                   |  |  |  |  | 8.0  | 0.1 |  |  |  |
| Level of Service (LOS)                  |  |  |  |  | А    | А   |  |  |  |
| Approach Delay (s/veh)                  |  |  |  |  | 0.   | 9   |  |  |  |
| Approach LOS                            |  |  |  |  | A    | A   |  |  |  |

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|                              |          | ŀ        | HCS <sup>-</sup> | Two-          | Way                                 | Stop              | o-Cor     | ntrol       | Repo     | ort      |        |          |         |         |        |          |
|------------------------------|----------|----------|------------------|---------------|-------------------------------------|-------------------|-----------|-------------|----------|----------|--------|----------|---------|---------|--------|----------|
| General Information          |          | _        | _                | _             | _                                   | _                 | Site      | Inforr      | natio    | n        | _      | _        | _       | _       | _      | _        |
| Analyst                      | AG       |          |                  |               |                                     |                   | Inters    | ection      |          |          | Dwye   | r Avenu  | e and W | est Lot |        |          |
| Agency/Co.                   | Erikss   | son      |                  |               |                                     |                   | Jurisc    | liction     |          |          | Arling | gton Hei | ghts    |         |        |          |
| Date Performed               | 9/8/2    | 022      |                  |               |                                     |                   | East/     | West Stre   | eet      |          | West   |          |         |         |        |          |
| Analysis Year                | 2028     |          |                  |               |                                     |                   | North     | n/South     | Street   |          | Dwye   | r Avenu  | e       |         |        |          |
| Time Analyzed                | PM P     | eak      |                  |               |                                     |                   | Peak      | Hour Fac    | ctor     |          | 0.41   |          |         |         |        |          |
| Intersection Orientation     | North    | n-South  |                  |               |                                     |                   | Analy     | sis Time    | Period ( | hrs)     | 0.25   |          |         |         |        |          |
| Project Description          | West     | gate Sch | lool             |               |                                     |                   |           |             |          |          |        |          |         |         |        |          |
| Lanes                        |          |          |                  |               |                                     |                   |           |             |          |          |        |          |         |         |        |          |
|                              |          |          |                  | J d t t t t t | <mark>ብ</mark> ገ<br><sub>Majo</sub> | t<br>t treet: Nor | rth-South | 4 4 4 4 4 4 |          |          |        |          |         |         |        |          |
| Vehicle Volumes and Ad       | justme   |          |                  |               |                                     |                   |           |             |          | Newth    |        |          |         | Cauth   |        |          |
| Approach                     | <u> </u> |          | bound            |               |                                     | 1                 | bound     |             |          |          | bound  |          |         |         | nbound |          |
| Movement                     | U        | L<br>10  | T<br>11          | R<br>12       | U                                   | L<br>7            | Т<br>8    | R<br>9      | U<br>1U  | L<br>1   | Т<br>2 | R<br>3   | U<br>4U | L<br>4  | T<br>5 | R<br>6   |
| Priority<br>Number of Lanes  | -        | 0        | 0                | 12            |                                     | 0                 | 0         | 0           | 0        | 0        | 2      | 0        | 40      | 4       | 5      | 0        |
| Configuration                |          | 0        | 0                | R             |                                     | 0                 | 0         |             |          | 0        | T      | 0        | 0       | 0       |        | TF       |
| Volume (veh/h)               | +        |          |                  | 35            |                                     |                   |           |             |          | <u> </u> | 54     |          |         |         | 124    | 23       |
| Percent Heavy Vehicles (%)   | -        |          |                  | 0             |                                     |                   |           |             |          |          | 54     |          |         |         | 124    |          |
| Proportion Time Blocked      | -        |          |                  | Ŭ             |                                     |                   |           |             |          |          |        |          |         |         |        |          |
| Percent Grade (%)            | -        |          | 0                |               |                                     |                   |           |             |          |          |        |          |         |         |        |          |
| Right Turn Channelized       |          |          |                  |               |                                     |                   |           |             |          |          |        |          |         |         |        |          |
| Median Type   Storage        |          |          |                  | Undi          | l<br>vided                          |                   |           |             |          |          |        |          | 1       |         |        |          |
| Critical and Follow-up H     | eadwa    | ys       |                  |               |                                     |                   |           |             |          |          |        |          |         |         |        |          |
| Base Critical Headway (sec)  | T        |          |                  | 6.2           |                                     |                   |           |             |          |          |        |          |         |         |        |          |
| Critical Headway (sec)       |          |          |                  | 6.20          |                                     |                   |           |             |          |          |        |          |         |         |        |          |
| Base Follow-Up Headway (sec) |          |          |                  | 3.3           |                                     |                   |           |             |          |          |        |          |         |         |        |          |
| Follow-Up Headway (sec)      |          |          |                  | 3.30          |                                     |                   |           |             |          |          |        |          |         |         |        |          |
| Delay, Queue Length, an      | d Leve   | l of S   | ervice           |               |                                     |                   |           |             |          |          |        |          |         |         |        |          |
| Flow Rate, v (veh/h)         |          |          |                  | 85            |                                     |                   |           |             |          |          |        |          |         |         |        |          |
| Capacity, c (veh/h)          |          |          |                  | 716           |                                     |                   |           |             |          |          |        |          |         |         |        |          |
| v/c Ratio                    |          |          |                  | 0.12          |                                     |                   |           |             |          |          |        |          |         |         |        |          |
|                              |          |          |                  |               |                                     |                   | <b>—</b>  |             |          |          |        |          |         |         |        | <u> </u> |

95% Queue Length, Q<sub>95</sub> (veh)

Control Delay (s/veh)

Level of Service (LOS) Approach Delay (s/veh)

Approach LOS

0.4

10.7 B

10.7

В