

TRAFFIC IMPACT STUDY FOR

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# SR 211 Mixed-Use Site Hall County, Georgia

**DATE:**  
June 3, 2025

**LOCATION:**  
Hall County, Georgia

**PREPARED FOR:**  
CHI/Acquisitions, L.P.

**PREPARED BY:**  
NV5 Engineers and Consultants, Inc.  
10745 Westside Way, Suite 300  
Alpharetta, GA 30009  
678.795.3600

NV5  
[nv5.com](http://nv5.com)



## Executive Summary

A new mixed-use development is proposed for construction along the east side of SR 211 opposite Ridgemoor Drive. When completed, the development will consist of 1,719,640 square feet of warehousing, 350 townhomes, and 350 apartments. With limited frontage to SR 211, only one (1) access point is proposed onto the highway. The full-buildout of the site is expected by 2030.

Currently, SR 211 is a two-lane undivided roadway. The intersection of SR 211 with SR 347 experiences high delay during the PM peak period with signal timings favoring traffic along SR 211 despite there being several hundred vehicles approaching from SR 347 during that period. This delay is expected to be mitigated with two widening projects that are planned to be completed by the end of 2030. The widening projects will add multiple turn lanes to each approach at the intersection and additional northbound and southbound through lanes to improve traffic flow along SR 211.

The concept for PI 0007233 (widening of SR 211 from SR 347 to SR 53) shows a network of R-Cuts for the SR 211 corridor between SR 53 and Union Church Road. While the proposed site access would operate satisfactorily as an R-Cut, the addition of 936 heavy trucks per day to the highway from the development present a safety concern for slow-moving, U-turning trucks movement bound for I-85 along SR 211. Instead, a multilane roundabout would operate better at the proposed driveway allowing the large vehicles to safely exit the site while maintaining traffic flow along the highway. Since the widening project is still several years away, the multi-lane roundabout could be initially constructed as a single-lane roundabout until the GDOT project is completed.

Other than improvements at the proposed access to SR 211, no changes to the surrounding intersections are necessary to mitigate the impact of the proposed development.

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## A. Introduction

A new mixed-use is proposed for construction along the east side of SR 211 opposite Ridgemoor Drive in Hall County, Georgia. The proposed development will consist of 1,719,640 square feet of warehousing, 350 townhomes, and 350 apartments. The site is proposed to have a single access-point onto SR 211.

The traffic analyses in this report are for a single phase of construction – full build-out even though the development cycle will likely be divided between industrial and residential. The purpose of this report is to identify the traffic expected to be generated by new vehicular trips when the development is fully completed. This study includes analysis of the Existing, No-Build, and Build conditions at the following intersections for the year 2030:

1. SR 211 & SR 53
2. SR 211 & SR 347 / Bayberry Drive
3. SR 211 & Site Driveway

The report summarizes the analysis of existing, background and projected traffic at the study locations, analysis of traffic impacts including Levels of Service (LOS) and conclusions and recommendations from the analysis.

Figure 1 depicts the study area (vicinity map) in Hall County, Georgia. The study intersections listed above are depicted in Figure 2. A copy of the development concept plan is included in Appendix A.

Figure 1: Vicinity Map

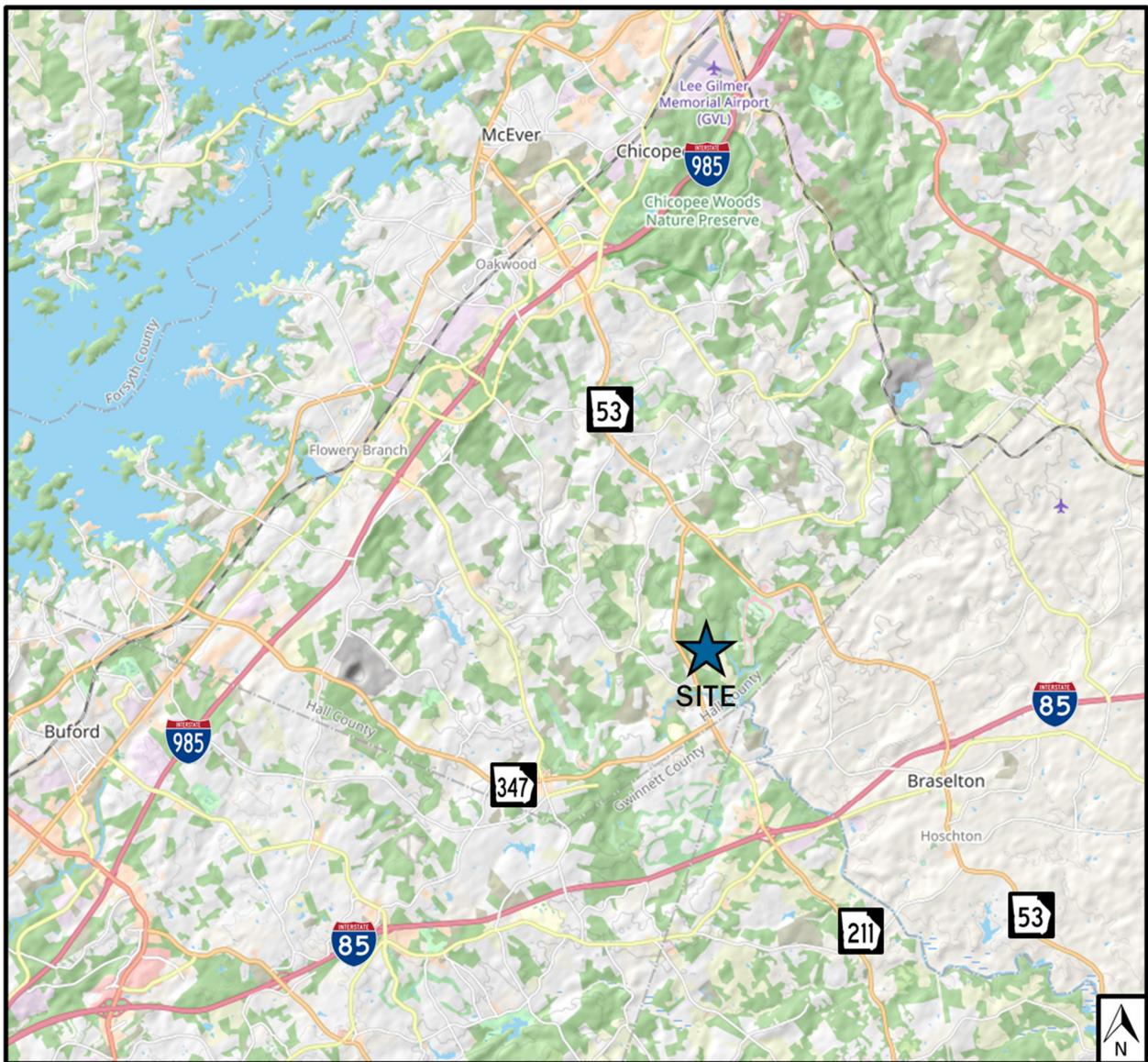
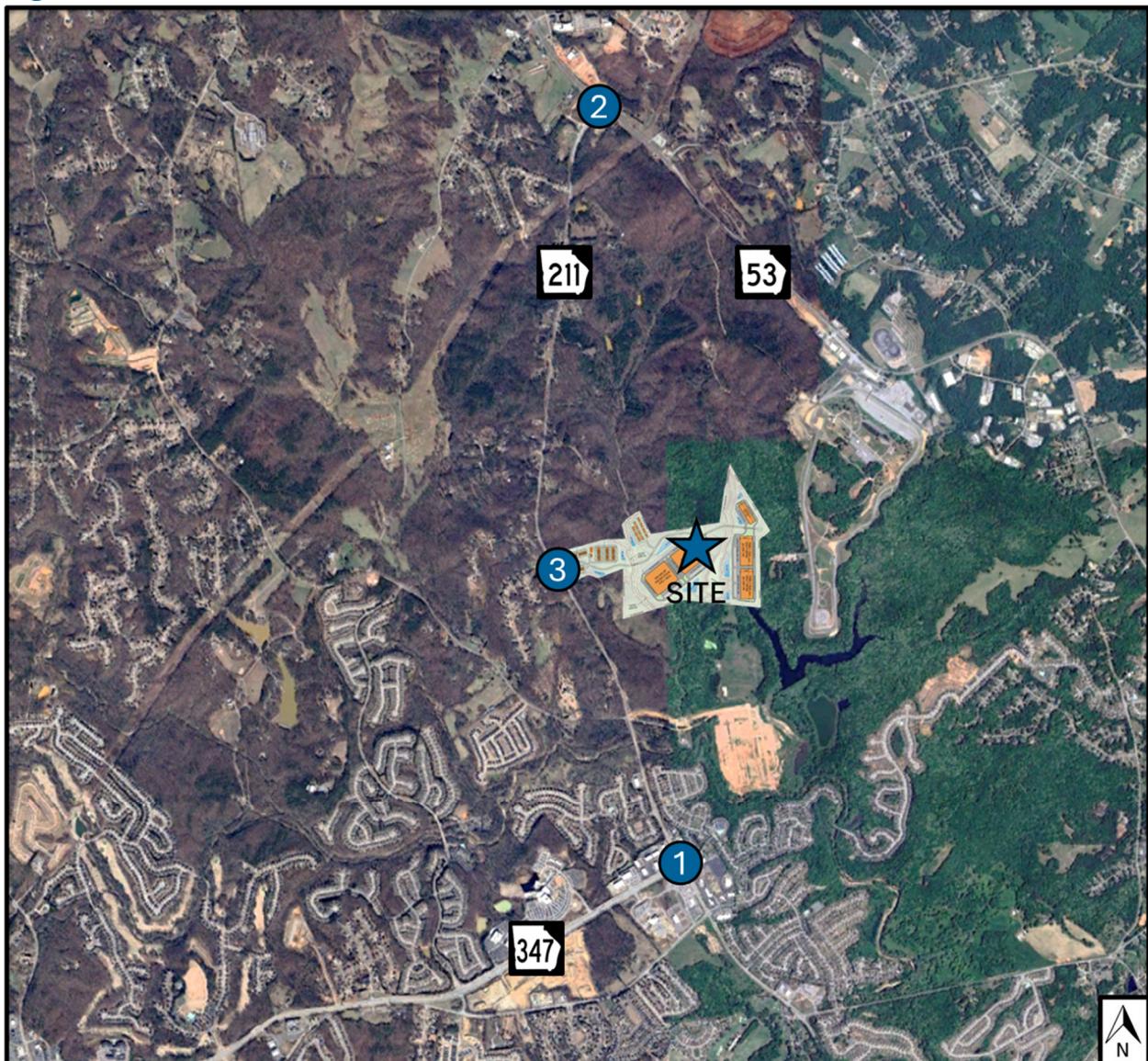


Figure 2: Site Location Aerial



1. SR 211 & SR 53
2. SR 211 & SR 347 / Bayberry Drive
3. SR 211 & Site Driveway / Ridgemoor Drive

## B. Existing Conditions

### B.1. Transportation Facilities

**SR 211** is currently a two-lane, undivided, minor arterial highway that has a north/south orientation for the purposes of this study. SR 211 runs south from its intersection with SR 53 towards Barrow County and I-85. The posted speed limit along SR 211 is 45 miles per hour (MPH) and land uses along the highway are primarily residential in the study area with commercial around its intersection with SR 347 / Bayberry Drive.

**SR 53** is a four-lane, divided highway classified as a principal arterial highway west of its intersection with SR 211 and a minor arterial highway east of the intersection as the highway narrows to a two-lane, undivided roadway. SR 53 has an east/west orientation, for the purposes of this study, and runs west towards Oakwood and I-985 and runs east towards Braselton and I-85. The posted speed limit along SR 53 in the study area is 45 MPH. Most of the land is undeveloped along the highway with some small commercial uses in the area as well as a Hall County fire station.

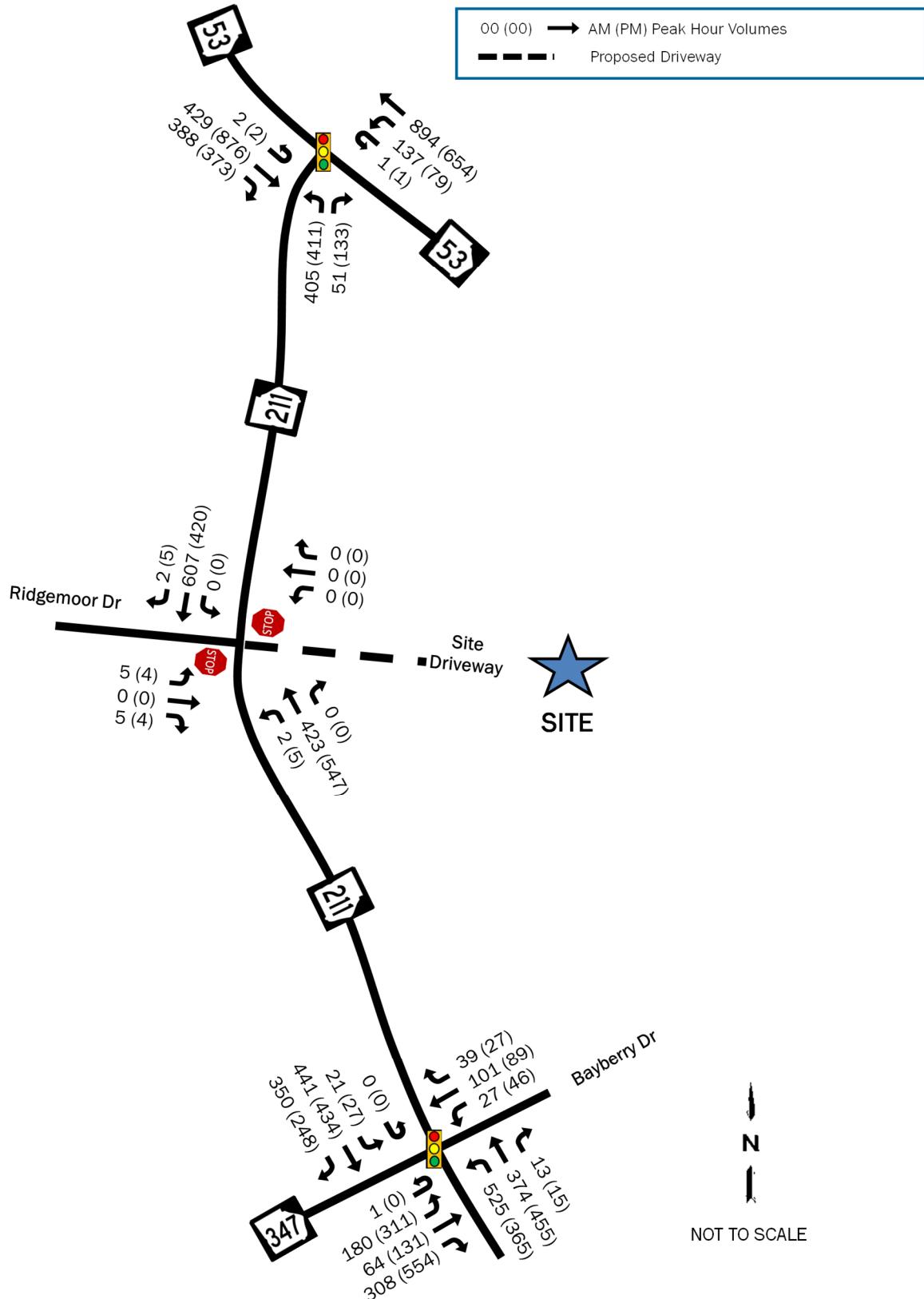
**SR 347 (Friendship Road)** is a six-lane, divided, minor arterial highway with an east-west orientation for the purposes of this study. SR 347 runs west from its intersection with SR 211 towards Buford and I-985. SR 53 shares an intersection at SR 211 with Bayberry Drive. The posted speed limit along SR 53 is 45 MPH and land uses along the highway are primarily commercial at the study intersection with residential west of the study area.

**Bayberry Drive** is a four-lane, divided, local roadway that runs east of its intersection with SR 211 into the Mulberry Park residential subdivision. Bayberry Drive also includes three access points for commercial developments located along SR 211. The posted speed limit along Bayberry Drive is 25 MPH.

### B.2. Traffic Counts

Weekday AM and PM peak period turning movement counts were collected at the study intersections on Tuesday, March 25, 2025. Average daily traffic counts were also collected on SR 211 in front of the proposed site. The average daily weekday traffic along SR 211 is approximately 12,500 vehicles per day near the project site. Counts were collected while schools were in session and are included in Appendix B. The counts collected in 2025 are shown in Figure 3 (2025 Existing Traffic Volumes).

Figure 3: 2025 Existing Traffic Volumes



## C. Future Conditions

### C.1. Background Growth

The growth rate used in the study area is based upon an analysis of historical traffic counts in study area according to Georgia DOT's Traffic Data Application. The project is expected to be completed in 2030. To account for ambient growth and other developments in the area, the existing traffic counts for this study were grown by a conservative rate of 2.4% per year for five (5) years. The expected volumes are shown in Figure 4, 2030 No-Build Volumes. The growth rate development worksheet is included in Appendix B.

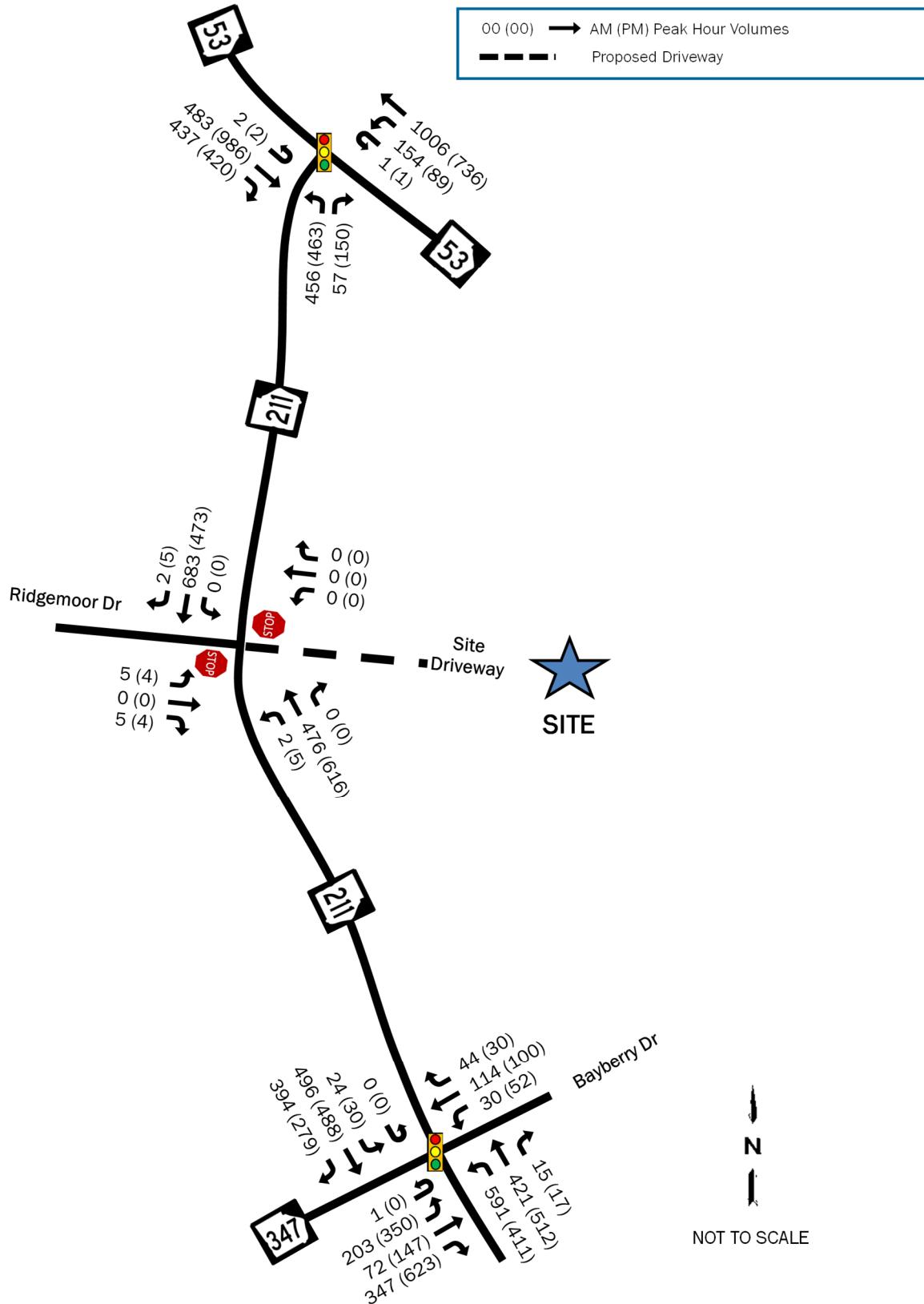
### C.2. Planned Roadway Projects

GDOT has two projects planned for SR 211 that are expected to impact the study area and be completed by the end of 2030. The first, PI 0016089, will widen SR 211 from Liberty Church Road to SR 347 / Bayberry Drive from two-lanes to a four-lane, divided highway. This project will add significant capacity improvements to the intersection of SR 211 with SR 347 including an additional eastbound left-turn lane, eastbound right-turn lane, northbound through-lane, northbound right-turn lane, and a westbound right-turn lane. Letting for this project is scheduled for 2025.

The second project, PI 0007233, will continue the widening north to SR 53 creating a series of R-cuts along the highway and a multilane roundabout at the intersection of SR 211 with Union Church Road. This project will add a second southbound through-lane to the intersection of SR 211 with SR 347, but not significantly impact the intersection of SR 211 with SR 53, other than extending the storage bay for northbound right-turns. Construction for this project is expected to be completed by the end of 2030.

The changes from these widening plans are expected to include signal timing improvements, so for the purposes of this study, signal timings for the future (No-build) analysis were optimized and the same timings were used for the future + project traffic (Build) analysis.

Figure 4: 2030 No-Build Traffic Volumes



### C.3. Project Trip Generation

Project trip generation was calculated using the Institute of Transportation Engineers' (ITE) Trip Generation Manual, 11th Edition, 2021. According to ITE, trips for light industrial developments include both personal vehicles and trucks. Table 1 below shows the breakdown of the trips expected to be generated by the new mixed-use development.

**Table 1: Trip Generation**

| Land Use Code    | Variable     | Trip Type        | Daily        | AM Peak Hour |            |            | PM Peak Hour |            |            |
|------------------|--------------|------------------|--------------|--------------|------------|------------|--------------|------------|------------|
|                  |              |                  |              | IN           | OUT        | TOTAL      | IN           | OUT        | TOTAL      |
| 110 - Light Ind. | 1,719,640 SF | Personal Vehicle | 1,820        | 159          | 37         | 196        | 38           | 143        | 181        |
|                  |              | Truck            | 936          | 18           | 16         | 34         | 27           | 25         | 52         |
| 215 – Townhomes  | 350 Units    | Personal Vehicle | 2,616        | 55           | 121        | 176        | 117          | 89         | 206        |
| 220 – Apts       | 350 Units    | Personal Vehicle | 2,318        | 31           | 100        | 131        | 108          | 63         | 171        |
| <b>Total</b>     |              |                  | <b>7,690</b> | <b>263</b>   | <b>273</b> | <b>537</b> | <b>290</b>   | <b>320</b> | <b>610</b> |

The development will generate a total of 537 new vehicle trips (263 entering and 273 exiting) during the AM peak hour, and a total of 610 new vehicle trips (290 entering and 320 exiting) during the PM peak hour.

### C.4. Trip Distribution and Assignment

The assignment and directional distribution of new project trips was based on the traffic patterns evidenced in the overall study area. Traffic counts at the nearest intersection to the north and south of the site suggest that approximately

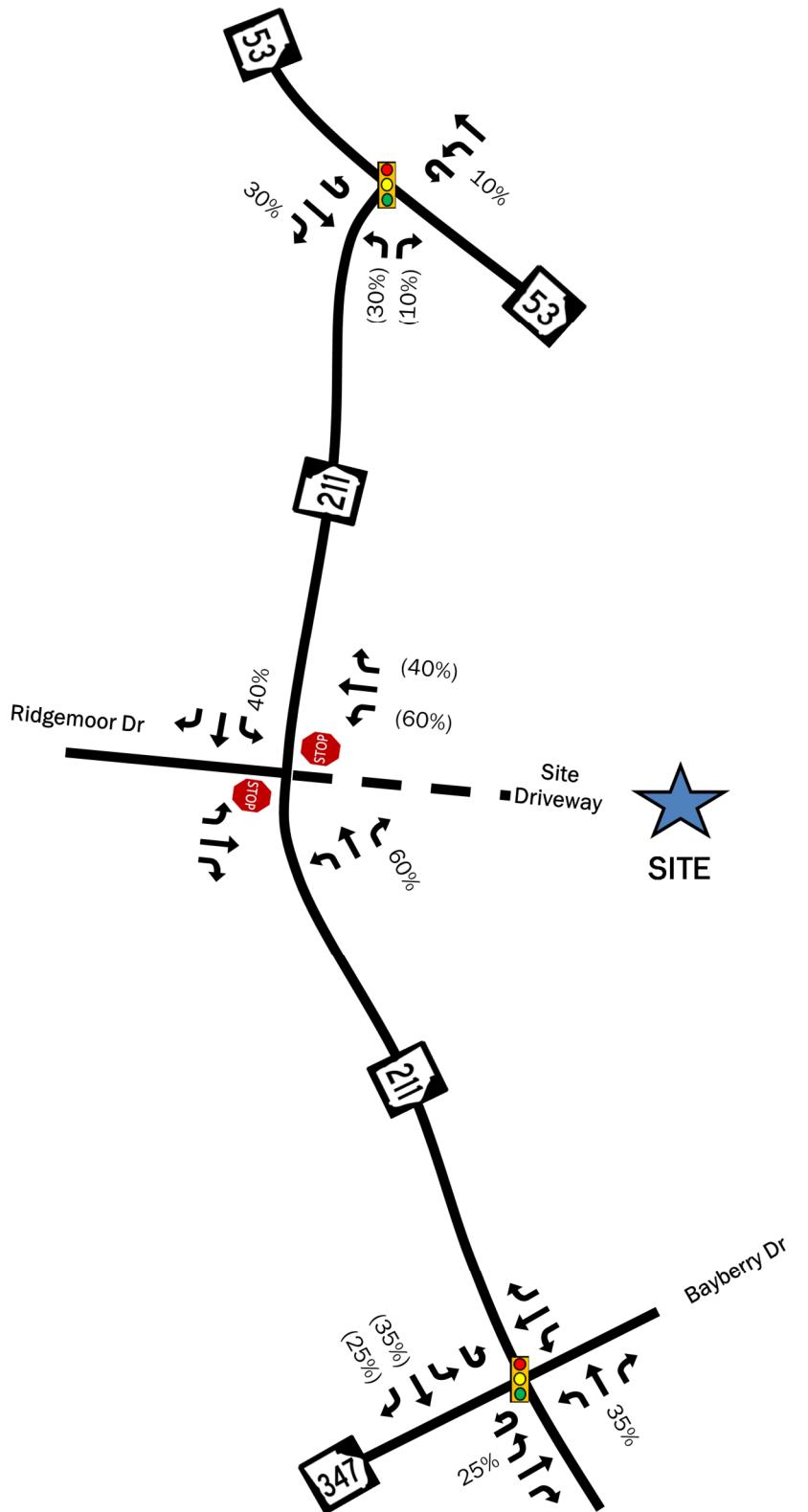
- 30% of vehicles will travel to/from the northwest along SR 53
- 10% will travel to/from the northeast along SR 53
- 25% will travel to/from the southwest along SR 347
- 35% will travel to/from the south along SR 211.

The detailed personal vehicles trip distribution is shown in Figure 5. The personal vehicles trips generated from the development utilizing the trip distribution is depicted in Figure 6. Truck counts at the intersections suggest a different distribution pattern for heavy vehicles. The counts suggest that:

- 30% of trucks will travel to/from the northwest along SR 53,
- 25% will travel to/from the northeast along SR 53,
- 20% will travel to/from the southwest along SR 347, and
- 25% will travel to/from the south along SR 211.

The truck distribution is shown in Figure 7, and the resulting truck trips are shown in Figure 8. Figure 9 shows the total project trip generation. The No-Build plus project trips (Build Volumes) are depicted in Figure 10.

Figure 5: Personal Vehicle Trip Distribution



## Figure 6: Personal Vehicle Development Trips

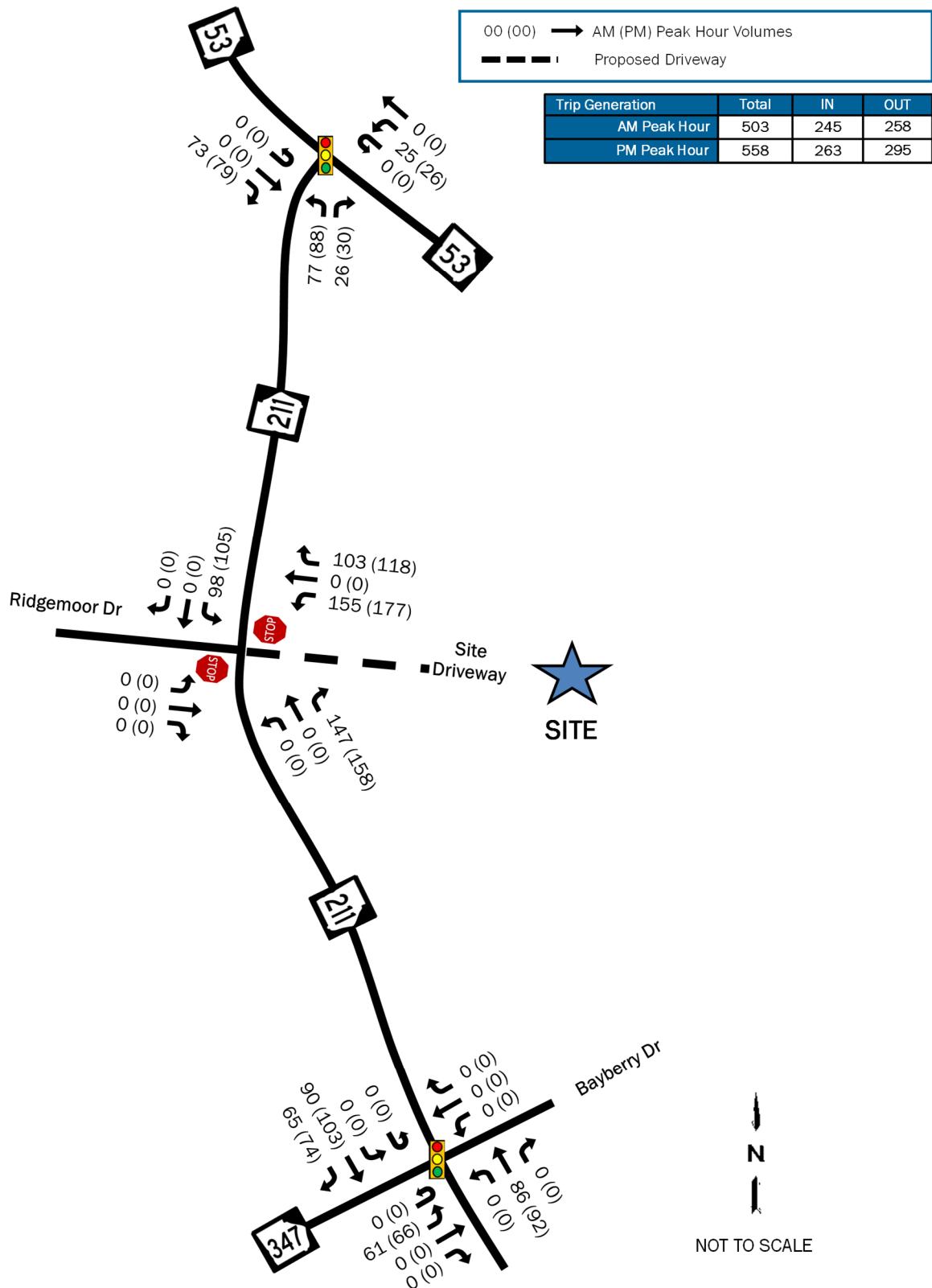
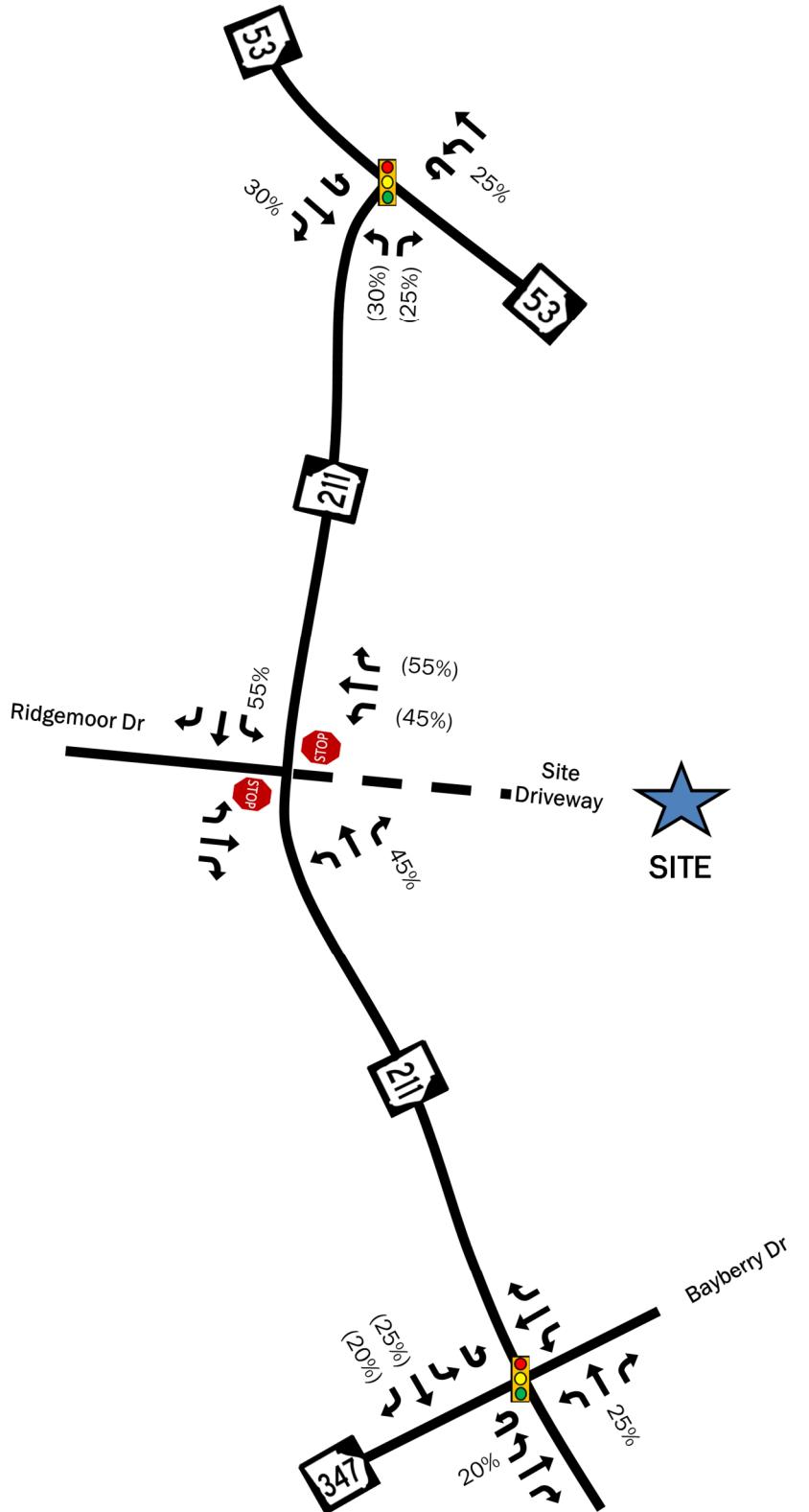


Figure 7: Truck Trip Distribution



**Figure 8: Truck Development Trips**

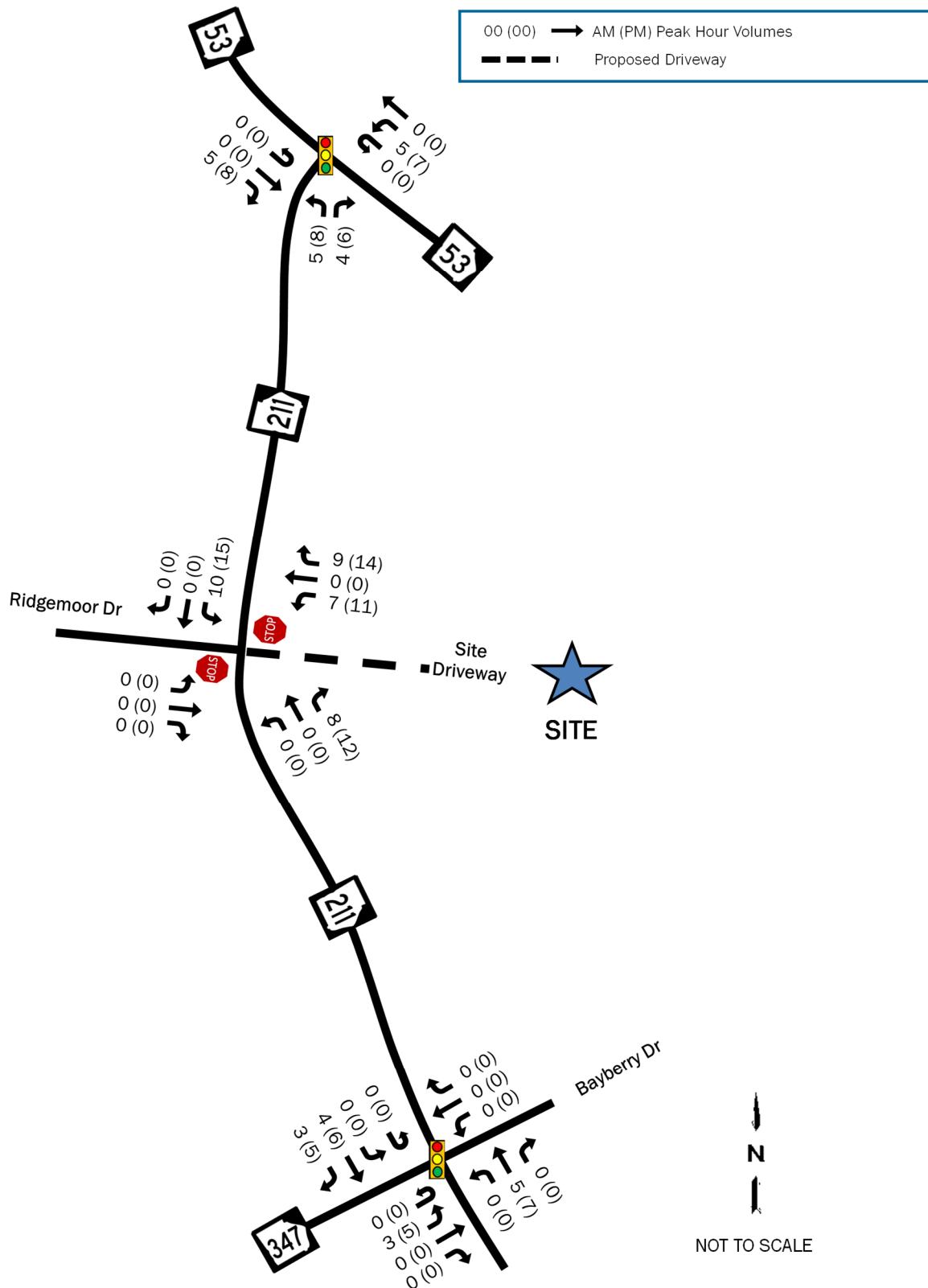


Figure 9: Total Development Trips

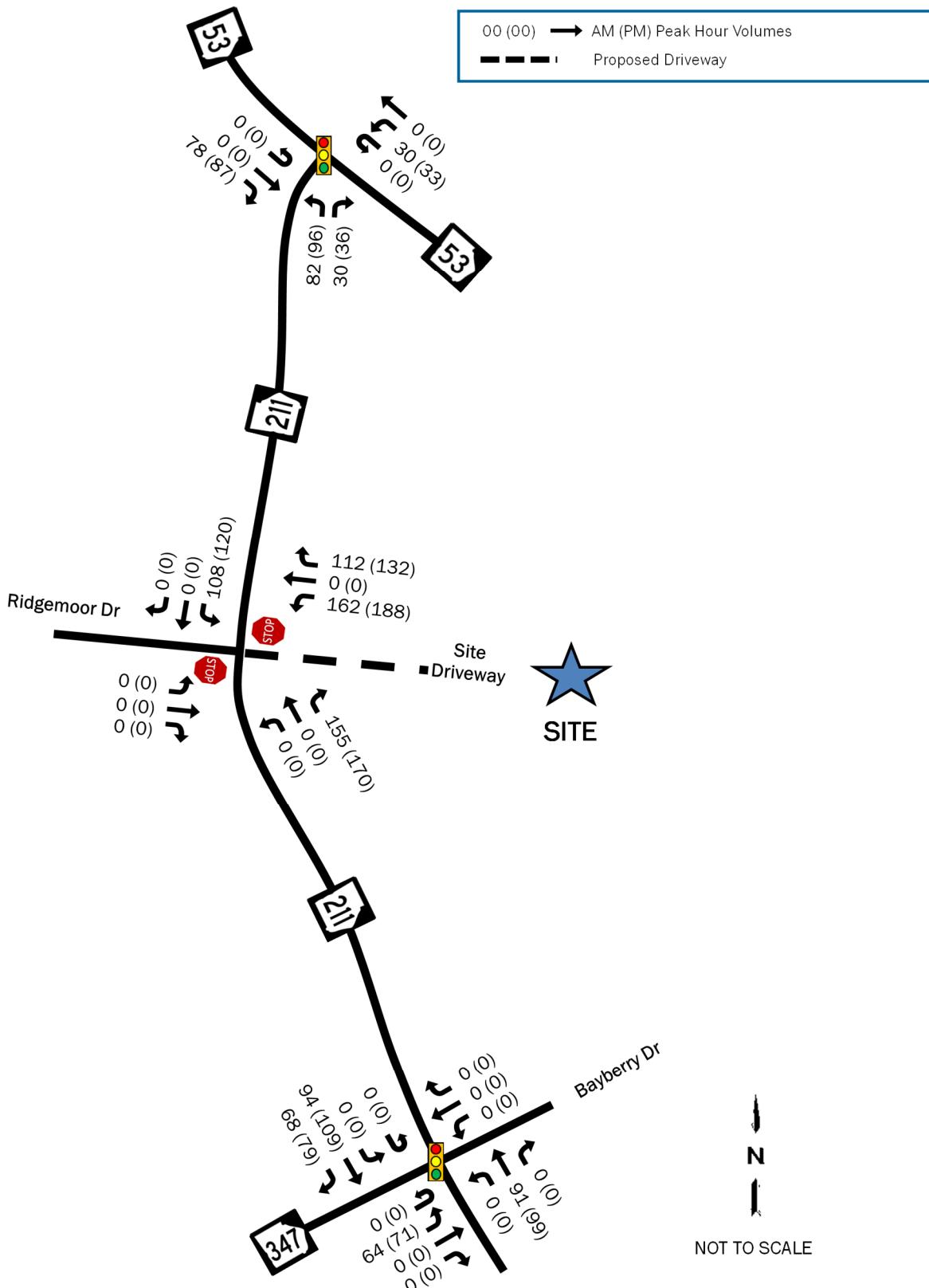
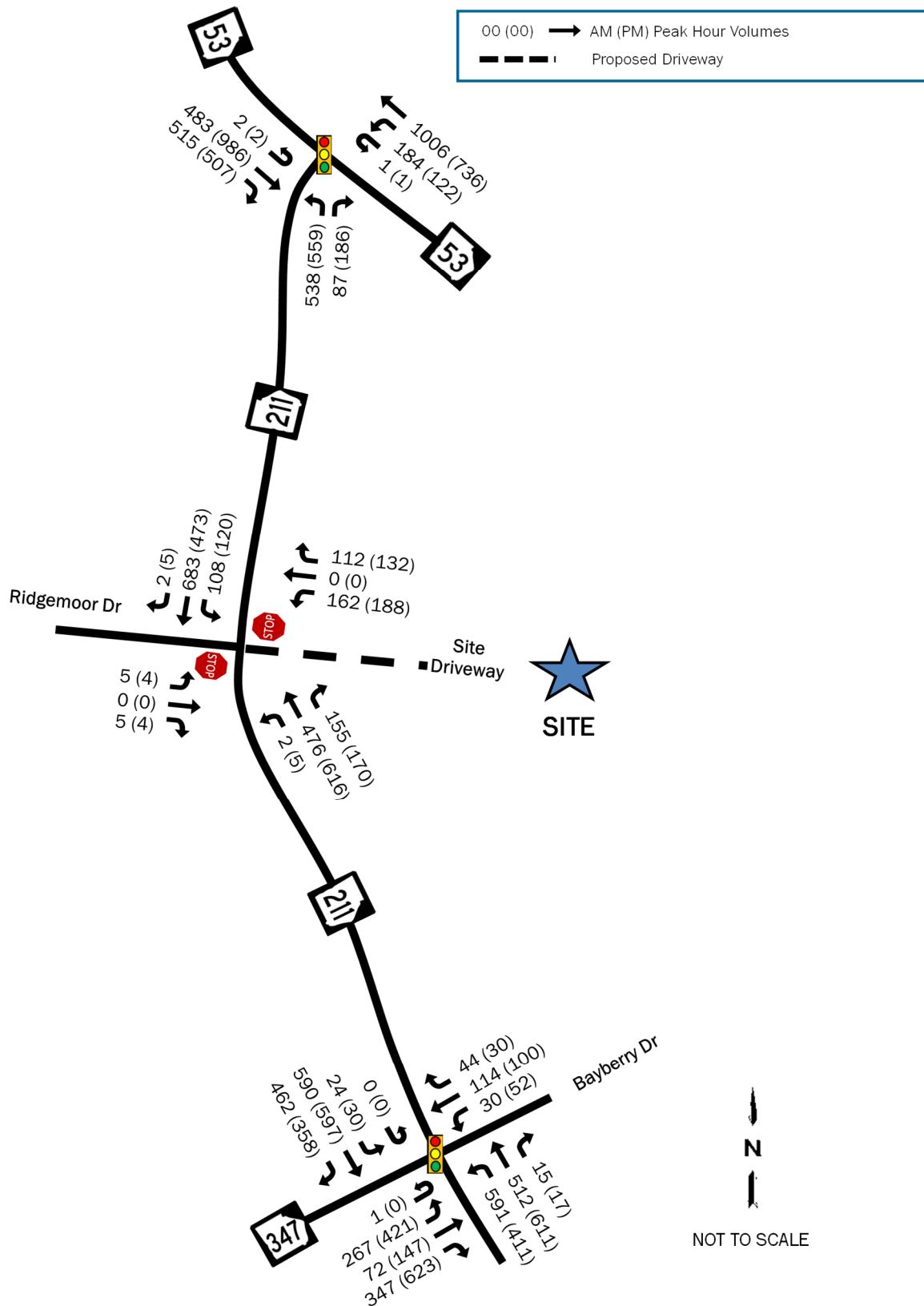


Figure 10: 2030 Build Traffic Volumes



## D. Traffic Impact Analyses

The analysis in each of the scenarios for the study was performed using the traffic analysis software Synchro® 12. Average vehicular delays are calculated and reported as Levels of Service (LOS) as defined by the Highway Capacity Manual (HCM 7th Edition). HCM uses a grading system A through F, where A is the best (little to no delay), and F is the worst (very heavy delay). HCM Levels of Service (LOS) standards and Synchro® output reports are included in Appendix C. Signal timing for the intersections SR 211 with SR 53 and with SR 347 / Bayberry Drive were taken from GDOT's Automated Traffic Signal Performance Measures application. Printouts of the timings are included with the Synchro® output reports in Appendix C. Since HCM does not analyze U-turns at signalized intersections, all U-turns were included as left-turns. The eastbound approach at the intersection of SR 211 with SR 53 had few U-turns that could not be accounted for as the intersection is a T-intersection, but there is an exclusive storage lane for these U-turns and the delay to make the U-turn is negligible to the rest of the intersection.

### D.1. 2025 Existing Conditions Analysis

The results of the 2025 Existing conditions capacity analysis are shown in Table 2 and include analysis of the traffic volumes presented in Figure 3.

**Table 2: 2025 Existing Conditions Capacity Analysis**

| ID | Intersection                  | Control | Movement | AM  |       | PM  |       |
|----|-------------------------------|---------|----------|-----|-------|-----|-------|
|    |                               |         |          | LOS | Delay | LOS | Delay |
| 1  | SR 211 & SR 347 / Bayberry Dr | Signal  | Overall  | D   | 52.6  | F   | 113.5 |
|    |                               |         | EB       | E   | 71.0  | F   | 192.5 |
|    |                               |         | WB       | F   | 90.6  | F   | 135.7 |
|    |                               |         | NB       | D   | 42.5  | D   | 45.6  |
|    |                               |         | SB       | D   | 37.4  | D   | 38.6  |
| 2  | SR 211 & SR 53                | Signal  | Overall  | A   | 8.9   | A   | 9.3   |
|    |                               |         | EB       | A   | 6.6   | A   | 6.9   |
|    |                               |         | WB       | A   | 7.3   | A   | 6.9   |
|    |                               |         | NB       | B   | 16.9  | B   | 19.1  |
| 3  | SR 211 & Ridgemoor Dr         | Stop    | EB       | C   | 20.3  | C   | 18.4  |
|    |                               |         | NBL      | A   | 8.9   | A   | 8.3   |

As shown in Table 2, the intersection of SR 211 with SR 347 / Bayberry Drive currently experiences heavy delay along the two side-streets, especially during the PM peak period. Much of the delay is due to a high cycle length during the PM peak period of 160 seconds and very little time allocated to the side streets, despite having a high volume of traffic coming from SR 347.

## D.2. 2030 No-Build Conditions Capacity Analysis

The results of the 2030 No-Build conditions capacity analysis are shown in Table 3 for the operation of the study intersections with the traffic volumes presented in Figure 4. The analysis for 2030 assumes the improvements to SR 211 will be in place.

**Table 3: 2030 No-Build Capacity Analysis**

| ID | Intersection                  | Control | Movement | AM  |       | PM  |       |
|----|-------------------------------|---------|----------|-----|-------|-----|-------|
|    |                               |         |          | LOS | Delay | LOS | Delay |
| 1  | SR 211 & SR 347 / Bayberry Dr | Signal  | Overall  | D   | 39.8  | D   | 37.0  |
|    |                               |         | EB       | D   | 38.3  | D   | 35.6  |
|    |                               |         | WB       | E   | 69.2  | E   | 59.1  |
|    |                               |         | NB       | D   | 44.4  | D   | 37.7  |
|    |                               |         | SB       | C   | 29.5  | C   | 31.9  |
| 2  | SR 211 & SR 53                | Signal  | Overall  | A   | 9.9   | B   | 10.7  |
|    |                               |         | EB       | A   | 7.0   | A   | 7.3   |
|    |                               |         | WB       | A   | 7.8   | A   | 7.5   |
|    |                               |         | NB       | C   | 20.3  | C   | 24.1  |
| 3  | SR 211 & Ridgemoor Dr         | Stop    | EB       | C   | 23.8  | C   | 21.3  |
|    |                               |         | NBL      | A   | 9.2   | A   | 8.5   |

As shown in Table 3, the major improvements to SR 211 and the intersection of SR 211 with SR 347 / Bayberry Drive is expected to greatly improve traffic operations at the intersection. The Bayberry Drive approach may still experience slightly high delay due to timings needing to favor the other approaches, but queues for this approach are expected to stay low.

### D.3. 2030 Build Conditions Capacity Analysis

The results of the 2030 Build conditions intersection capacity analysis are shown in Table 4 for No-Build plus project volumes as presented in Figure 10. As with the no-build analysis, the SR 211 widening is expected to be completed.

**Table 4: 2030 Build Capacity Analysis**

| ID | Intersection                  | Control     | Movement | AM  |       | PM  |       |
|----|-------------------------------|-------------|----------|-----|-------|-----|-------|
|    |                               |             |          | LOS | Delay | LOS | Delay |
| 1  | SR 211 & SR 347 / Bayberry Dr | Signal      | Overall  | D   | 40.5  | D   | 37.4  |
|    |                               |             | EB       | D   | 38.8  | D   | 35.9  |
|    |                               |             | WB       | E   | 69.6  | E   | 59.1  |
|    |                               |             | NB       | D   | 42.6  | D   | 36.7  |
|    |                               |             | SB       | D   | 34.2  | C   | 34.9  |
| 2  | SR 211 & SR 53                | Signal      | Overall  | B   | 12.1  | B   | 13.4  |
|    |                               |             | EB       | A   | 8.4   | A   | 8.7   |
|    |                               |             | WB       | A   | 8.9   | B   | 10.2  |
|    |                               |             | NB       | C   | 24.7  | C   | 27.8  |
| 3  | SR 211 & Site Driveway        | Round-about | Overall  | A   | 7.1   | A   | 8.0   |
|    |                               |             | EB       | A   | 6.7   | A   | 5.6   |
|    |                               |             | WB       | A   | 9.0   | B   | 12.9  |
|    |                               |             | NB       | A   | 6.2   | A   | 7.3   |
|    |                               |             | SB       | A   | 7.3   | A   | 6.3   |

As shown in Table 4, the addition of traffic from the proposed mixed-use development is not expected to have a major impact on traffic operations at the nearby intersections. Delay is expected to increase slightly from the no-build volumes, but overall operations are expected to stay the same.

After conducting an Intersection Control Evaluation (See Section E.2) and weighing the industrial character of the site, the best intersection configuration for the proposed access is a multilane roundabout.

## E. Site Driveway Evaluation

### E.1. GDOT Turn-Lane Evaluations

The need for right and left-turn lanes at the proposed site driveway was analyzed using methodologies from GDOT. GDOT bases the warrants for turn lanes on the speed of the roadway, the average daily traffic along the roadway, and the number of lanes of the roadway. SR 211 is expected to be a four-lane divided roadway by the time the proposed site is completed. The speed limit of SR 211 is 45 MPH, and the average daily traffic is over 10,000 vehicles per day. Table 5 shows the results of the turn lane warrants for the two proposed driveways.

**Table 5: GDOT Turn Lane Warrants**

| ID | Intersection                         | Movement / Turn Lane | Turn Volume  | GDOT Criteria | GDOT Criteria met? |
|----|--------------------------------------|----------------------|--------------|---------------|--------------------|
| 3  | SR 211 & Ridgemoor Dr/ Site Driveway | SBL                  | 1,608 LT/Day | 250 LT/Day    | YES                |
|    |                                      | NBR                  | 2,237 RT/Day | 75 RT/Day     | YES                |
|    |                                      | NBL                  | 58 LT/Day    | 250 LT/Day    | No                 |

As shown in Table 6, both a northbound right-turn deceleration lane and a southbound left-turn lane is warranted at the proposed site driveway. **It is noted that the turn lanes will only be applicable if a multilane roundabout is not constructed at the intersection.**

### E.2. Driveway Intersection Control Evaluation (ICE) and Other Considerations

The site driveway was analyzed for different intersection types to decide what would be best for the intersection configuration. With the amount of traffic expected from the development, a signal is likely warranted at the proposed access point. A traffic signal ranked first in the ICE analysis; however, the signal is likely only warranted after the site reaches full-build out, so it would not be a likely option as the site is developed over time.

The second ranked option was an R-Cut which is consistent with the current concept for the SR 211 widening plans. While a R-Cut, could work at the site driveway, the site is expected to generate many large trucks throughout the day which would have to make a U-turn to head towards I-85, which could be dangerous and impeded traffic on SR 211.

A multilane roundabout ranked third in the evaluation but performed the best in terms of capacity, while allowing the safest access onto SR 211 for the larger vehicles; thus, a multilane roundabout is recommended at the site driveway. Additionally, it is recommended that the site driveway align with Ridgemoor Drive on the west side of SR 211 to prevent conflicting turns. Ridgemoor Drive is a small, dead-end road that provides access to about 37 single-family homes, so very little traffic is expected from that approach. The ICE worksheets are included in Appendix E.

## F. Conclusions

A new mixed-use development is proposed for construction along the east side of SR 211 opposite Ridgemoor Drive. When completed, the development will consist of 1,719,640 square feet of warehousing, 350 townhomes, and 350 apartments. With limited frontage to SR 211, only one (1) access point is proposed onto the highway. The full-buildout of the site is expected by 2030.

Currently, SR 211 is a two-lane undivided roadway. The intersection of SR 211 with SR 347 experiences high delay during the PM peak period with signal timings favoring traffic along SR 211 despite there being several hundred vehicles approaching from SR 347 during that period. This delay is expected to be mitigated with two widening projects that are planned to be completed by the end of 2030. The widening projects will add multiple turn lanes to each approach at the intersection and additional northbound and southbound through lanes to improve traffic flow along SR 211.

The widening of SR 211 and updated signal timings will yield satisfactorily operations during both peak hours even with additional traffic growth in the area. The addition of traffic from the proposed mixed-use site is expected to increase delay only marginally at the two study intersections, allowing them to continue operating similarly to no-build conditions.

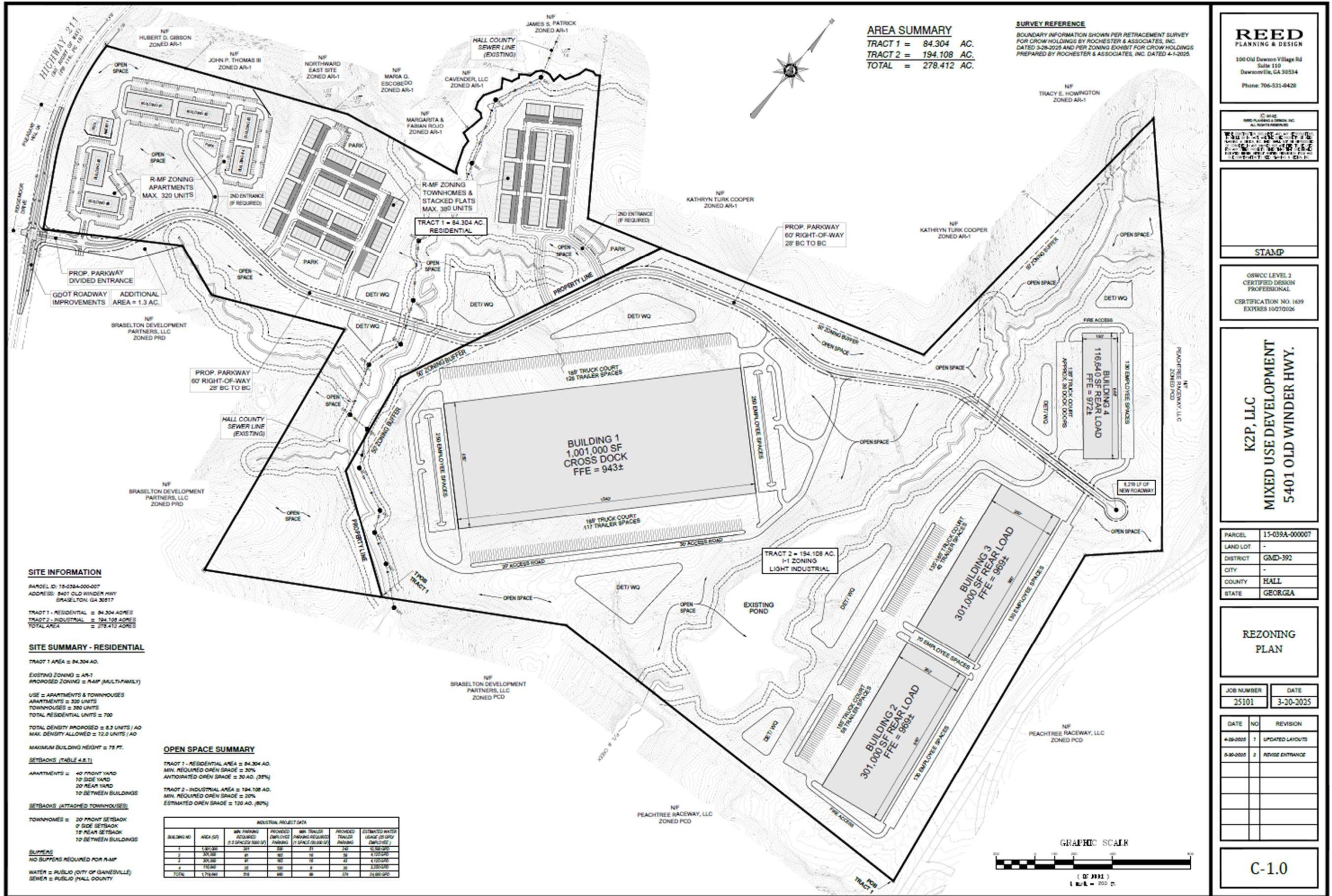
The concept for PI 0007233 (widening of SR 211 from SR 347 to SR 53) shows a network of R-Cuts for the SR 211 corridor between SR 53 and Union Church Road. While the proposed site access would operate satisfactorily as an R-Cut, the addition of 936 heavy trucks per day to the highway from the development present a safety concern for slow-moving, U-turning trucks movement bound for I-85 along SR 211. Instead, a multilane roundabout would operate better at the proposed driveway allowing the large vehicles to safely exit the site while maintaining traffic flow along the highway. Since the widening project is still several years away, the multi-lane roundabout could be initially constructed as a single-lane roundabout until the GDOT project is completed.

Other than improvements at the proposed access to SR 211, no changes to the surrounding intersections are necessary to mitigate the impact of the proposed development.

# APPENDIX A:

## DEVELOPMENT

## CONCEPT PLAN



**APPENDIX B:**  
**TRAFFIC COUNTS**  
**& GROWTH RATE**  
**DEVELOPMENT WORKSHEET**

# SR 211 & Friendship Rd/Bayberry Dr/SR 347

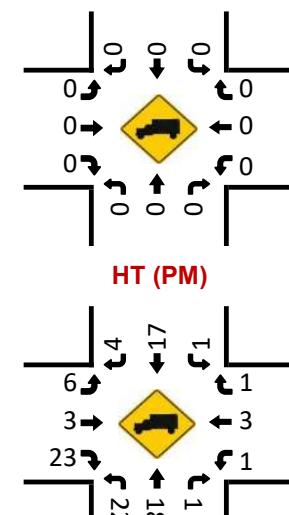
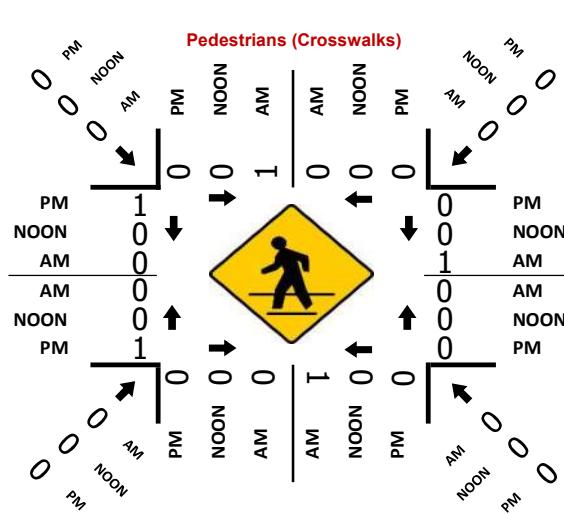
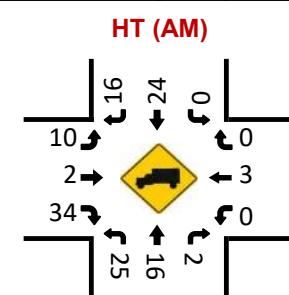
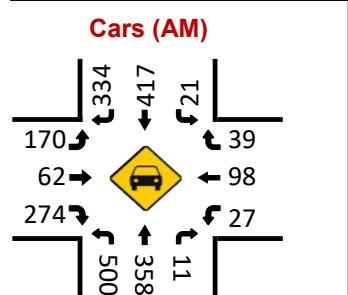
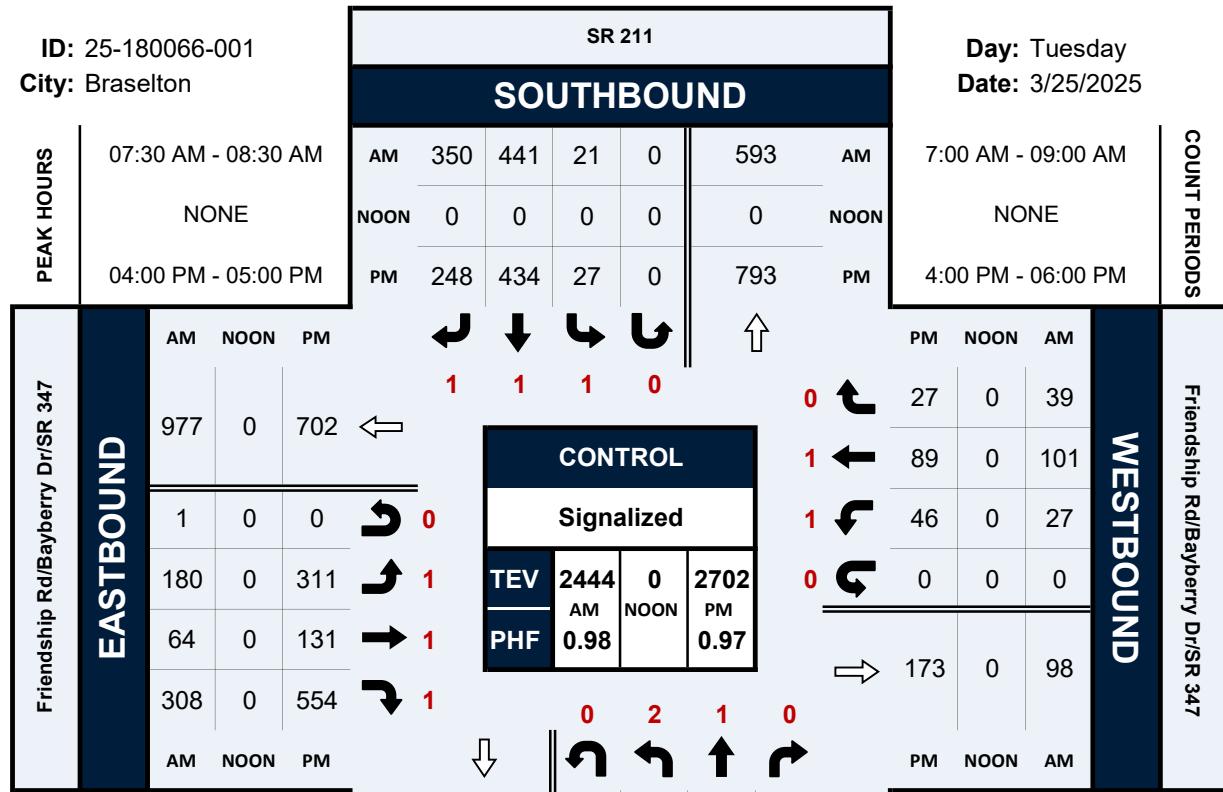
## Peak Hour Turning Movement Count

ID: 25-180066-001

City: Braselton

Day: Tuesday

Date: 3/25/2025

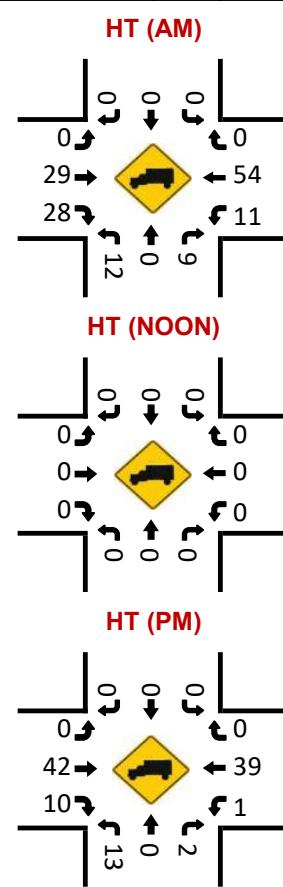
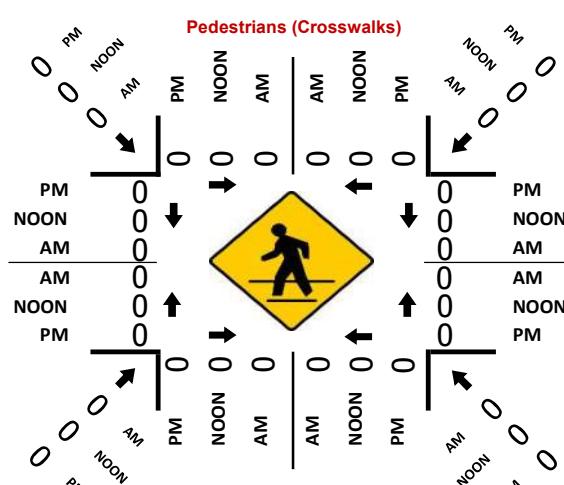
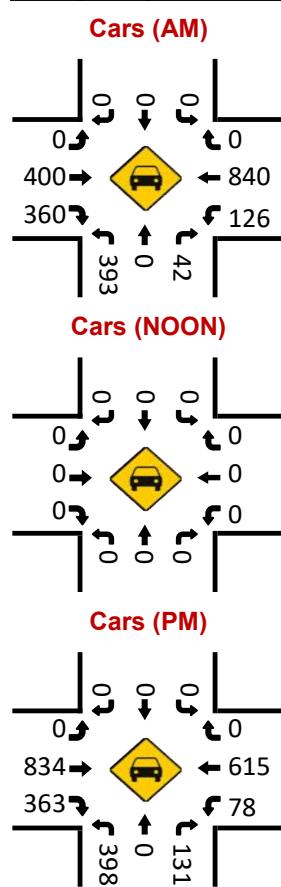


## SR 211 & SR 53/SR 211

# Peak Hour Turning Movement Count

**ID:** 25-180066-002  
**City:** Braselton

|                   |                    |  |      |  |      |  |      |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |
|-------------------|--------------------|--|------|--|------|--|------|--|--|--|--------------------|--|--|--|--|--|--|--|--|--|--|
| ID: 25-180066-002 | SR 211             |  |      |  |      |  |      |  |  |  | Day: Tuesday       |  |  |  |  |  |  |  |  |  |  |
| City: Braselton   | SOUTHBOUND         |  |      |  |      |  |      |  |  |  | Date: 3/25/2025    |  |  |  |  |  |  |  |  |  |  |
| PEAK HOURS        | 7:00 AM - 09:00 AM |  |      |  |      |  |      |  |  |  | 7:00 AM - 09:00 AM |  |  |  |  |  |  |  |  |  |  |
|                   | NONE               |  |      |  |      |  |      |  |  |  | NONE               |  |  |  |  |  |  |  |  |  |  |
|                   | 4:00 PM - 06:00 PM |  |      |  |      |  |      |  |  |  | 4:00 PM - 06:00 PM |  |  |  |  |  |  |  |  |  |  |
| COUNT PERIODS     |                    |  |      |  |      |  |      |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |
| PEAK HOURS        |                    |  |      |  |      |  |      |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |
| AM NOON PM        |                    |  |      |  |      |  |      |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |
| 1301 0 1067 ←     |                    |  |      |  |      |  |      |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |
| 2 0 2 ↗ 1         |                    |  |      |  |      |  |      |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |
| 0 0 0 ↑ 0         |                    |  |      |  |      |  |      |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |
| 429 0 876 → 2     |                    |  |      |  |      |  |      |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |
| 388 0 373 ↘ 1     |                    |  |      |  |      |  |      |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |
| AM NOON PM        |                    |  |      |  |      |  |      |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |
| 1010 0 481        |                    |  |      |  |      |  |      |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |
| WESTBOUND         |                    |  |      |  |      |  |      |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |
| SR 53/SR 211      |                    |  |      |  |      |  |      |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |
| CONTROL           |                    |  |      |  |      |  |      |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |
| Signalized        |                    |  |      |  |      |  |      |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |
| TEV               |                    |  | 2307 |  | 0    |  | 2529 |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |
| AM                |                    |  | NOON |  | PM   |  |      |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |
| PHF               |                    |  | 0.92 |  | 0.97 |  |      |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |



**VOLUME**

SR 211 Bet Ridgemoor Dr &amp; Pleasant Hill Ln

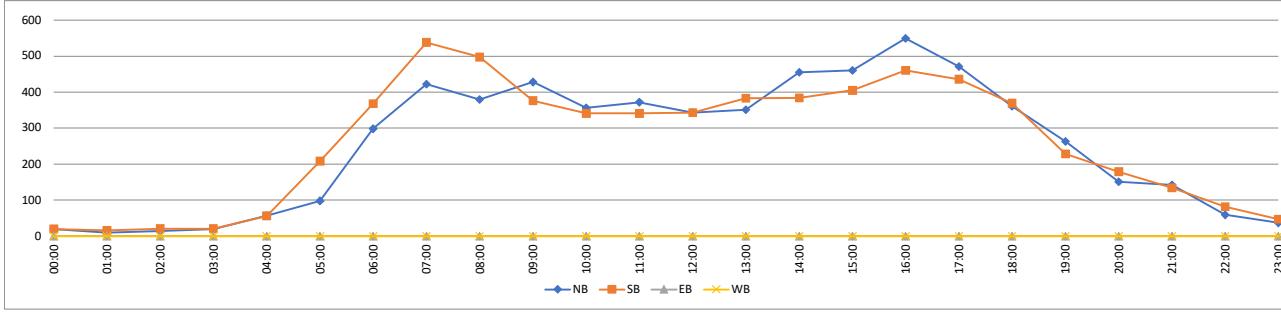
Day: Tuesday

Date: 3/25/2025

City: Braselton

Project #: 25\_180067\_001

| DAILY TOTALS        |             |             |          |          | NB          | SB            | EB          | WB          | Total    | DAILY TOTALS |             |      |     |     |    |    |       |
|---------------------|-------------|-------------|----------|----------|-------------|---------------|-------------|-------------|----------|--------------|-------------|------|-----|-----|----|----|-------|
| TIME                | NB          | SB          | EB       | WB       | TOTAL       | TIME          | NB          | SB          | EB       | WB           | TOTAL       | TIME | NB  | SB  | EB | WB | TOTAL |
| 15-Minutes Interval |             |             |          |          |             |               |             |             |          |              |             |      |     |     |    |    |       |
| 0:00                | 10          | 3           |          |          | 13          | 12:00         | 111         | 83          |          |              | 194         | 0:00 | 19  | 20  |    |    | 39    |
| 0:15                | 3           | 7           |          |          | 10          | 12:15         | 85          | 78          |          |              | 163         | 0:15 | 10  | 16  |    |    | 26    |
| 0:30                | 4           | 3           |          |          | 7           | 12:30         | 75          | 100         |          |              | 175         | 0:30 | 14  | 21  |    |    | 35    |
| 0:45                | 2           | 7           |          |          | 9           | 12:45         | 72          | 82          |          |              | 154         | 0:45 | 19  | 21  |    |    | 40    |
| 1:00                | 4           | 4           |          |          | 8           | 13:00         | 86          | 92          |          |              | 178         | 1:00 | 57  | 56  |    |    | 113   |
| 1:15                | 1           | 3           |          |          | 4           | 13:15         | 86          | 107         |          |              | 193         | 1:15 | 98  | 208 |    |    | 306   |
| 1:30                | 2           | 7           |          |          | 9           | 13:30         | 96          | 84          |          |              | 180         | 1:30 | 298 | 368 |    |    | 666   |
| 1:45                | 3           | 2           |          |          | 5           | 13:45         | 83          | 100         |          |              | 183         | 1:45 | 422 | 538 |    |    | 960   |
| 2:00                | 3           | 4           |          |          | 7           | 14:00         | 93          | 101         |          |              | 194         | 2:00 | 379 | 497 |    |    | 876   |
| 2:15                | 2           | 2           |          |          | 4           | 14:15         | 117         | 98          |          |              | 215         | 2:15 | 428 | 376 |    |    | 804   |
| 2:30                | 5           | 3           |          |          | 8           | 14:30         | 122         | 80          |          |              | 202         | 2:30 | 356 | 341 |    |    | 697   |
| 2:45                | 4           | 12          |          |          | 16          | 14:45         | 123         | 105         |          |              | 228         | 2:45 | 372 | 341 |    |    | 713   |
| 3:00                | 4           | 6           |          |          | 10          | 15:00         | 97          | 82          |          |              | 179         | 3:00 | 343 | 343 |    |    | 686   |
| 3:15                | 3           | 2           |          |          | 5           | 15:15         | 117         | 91          |          |              | 208         | 3:15 | 351 | 383 |    |    | 734   |
| 3:30                | 7           | 8           |          |          | 15          | 15:30         | 132         | 107         |          |              | 239         | 3:30 | 455 | 384 |    |    | 839   |
| 3:45                | 5           | 5           |          |          | 10          | 15:45         | 114         | 125         |          |              | 239         | 3:45 | 460 | 405 |    |    | 865   |
| 4:00                | 10          | 8           |          |          | 18          | 16:00         | 127         | 127         |          |              | 254         | 4:00 | 549 | 460 |    |    | 1009  |
| 4:15                | 10          | 7           |          |          | 17          | 16:15         | 126         | 129         |          |              | 255         | 4:15 | 471 | 436 |    |    | 907   |
| 4:30                | 19          | 13          |          |          | 32          | 16:30         | 155         | 92          |          |              | 247         | 4:30 | 361 | 369 |    |    | 730   |
| 4:45                | 18          | 28          |          |          | 46          | 16:45         | 141         | 112         |          |              | 253         | 4:45 | 263 | 228 |    |    | 491   |
| 5:00                | 14          | 25          |          |          | 39          | 17:00         | 138         | 91          |          |              | 229         | 5:00 | 151 | 179 |    |    | 330   |
| 5:15                | 24          | 42          |          |          | 66          | 17:15         | 114         | 125         |          |              | 239         | 5:15 | 142 | 134 |    |    | 276   |
| 5:30                | 27          | 60          |          |          | 87          | 17:30         | 113         | 102         |          |              | 215         | 5:30 | 59  | 82  |    |    | 141   |
| 5:45                | 33          | 81          |          |          | 114         | 17:45         | 106         | 118         |          |              | 224         | 5:45 | 37  | 47  |    |    | 84    |
| 6:00                | 57          | 56          |          |          | 113         | 18:00         | 112         | 94          |          |              | 206         |      |     |     |    |    |       |
| 6:15                | 58          | 108         |          |          | 166         | 18:15         | 86          | 97          |          |              | 183         |      |     |     |    |    |       |
| 6:30                | 90          | 112         |          |          | 202         | 18:30         | 86          | 93          |          |              | 179         |      |     |     |    |    |       |
| 6:45                | 93          | 92          |          |          | 185         | 18:45         | 77          | 85          |          |              | 162         |      |     |     |    |    |       |
| 7:00                | 93          | 104         |          |          | 197         | 19:00         | 69          | 65          |          |              | 134         |      |     |     |    |    |       |
| 7:15                | 111         | 112         |          |          | 223         | 19:15         | 65          | 52          |          |              | 117         |      |     |     |    |    |       |
| 7:30                | 117         | 164         |          |          | 281         | 19:30         | 70          | 50          |          |              | 120         |      |     |     |    |    |       |
| 7:45                | 101         | 158         |          |          | 259         | 19:45         | 59          | 61          |          |              | 120         |      |     |     |    |    |       |
| 8:00                | 85          | 152         |          |          | 237         | 20:00         | 38          | 47          |          |              | 85          |      |     |     |    |    |       |
| 8:15                | 96          | 128         |          |          | 224         | 20:15         | 42          | 50          |          |              | 92          |      |     |     |    |    |       |
| 8:30                | 98          | 115         |          |          | 213         | 20:30         | 36          | 41          |          |              | 77          |      |     |     |    |    |       |
| 8:45                | 100         | 102         |          |          | 202         | 20:45         | 35          | 41          |          |              | 76          |      |     |     |    |    |       |
| 9:00                | 117         | 91          |          |          | 208         | 21:00         | 46          | 36          |          |              | 82          |      |     |     |    |    |       |
| 9:15                | 126         | 98          |          |          | 224         | 21:15         | 38          | 33          |          |              | 71          |      |     |     |    |    |       |
| 9:30                | 103         | 104         |          |          | 207         | 21:30         | 36          | 40          |          |              | 76          |      |     |     |    |    |       |
| 9:45                | 82          | 83          |          |          | 165         | 21:45         | 22          | 25          |          |              | 47          |      |     |     |    |    |       |
| 10:00               | 66          | 88          |          |          | 154         | 22:00         | 16          | 23          |          |              | 39          |      |     |     |    |    |       |
| 10:15               | 99          | 82          |          |          | 181         | 22:15         | 15          | 18          |          |              | 33          |      |     |     |    |    |       |
| 10:30               | 98          | 83          |          |          | 181         | 22:30         | 16          | 30          |          |              | 46          |      |     |     |    |    |       |
| 10:45               | 93          | 88          |          |          | 181         | 22:45         | 12          | 11          |          |              | 23          |      |     |     |    |    |       |
| 11:00               | 83          | 81          |          |          | 164         | 23:00         | 12          | 11          |          |              | 23          |      |     |     |    |    |       |
| 11:15               | 96          | 85          |          |          | 181         | 23:15         | 7           | 18          |          |              | 25          |      |     |     |    |    |       |
| 11:30               | 88          | 86          |          |          | 174         | 23:30         | 11          | 10          |          |              | 21          |      |     |     |    |    |       |
| 11:45               | 105         | 89          |          |          | 194         | 23:45         | 7           | 8           |          |              | 15          |      |     |     |    |    |       |
| <b>TOTALS</b>       | <b>2472</b> | <b>2803</b> | <b>0</b> | <b>0</b> | <b>5275</b> | <b>TOTALS</b> | <b>3642</b> | <b>3450</b> | <b>0</b> | <b>0</b>     | <b>7092</b> |      |     |     |    |    |       |
| SPLIT %             | 47%         | 53%         | 0%       | 0%       | 43%         | SPLIT %       | 51%         | 49%         | 0%       | 0%           | 57%         |      |     |     |    |    |       |



**VOLUME****SR 211 Bet Ridgemoor Dr & Pleasant Hill Ln**

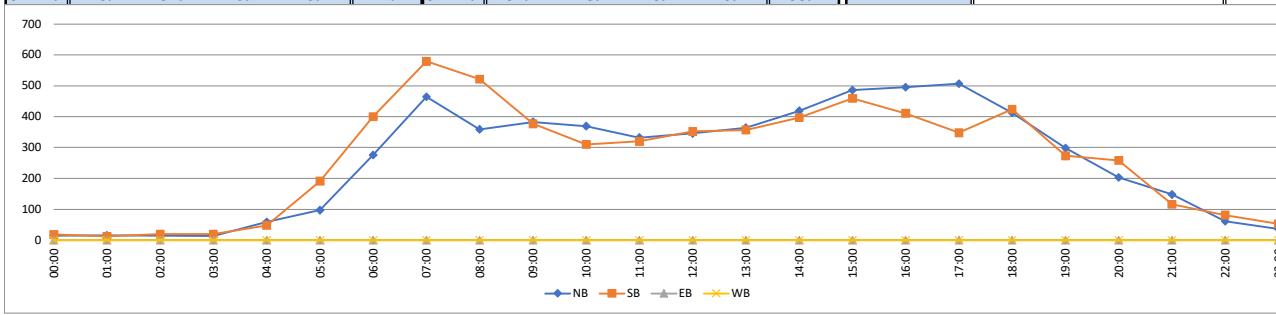
Day: Wednesday

Date: 3/26/2025

City: Braselton

Project #: 25\_180067\_001

| DAILY TOTALS               |             |             |          |          | NB          | SB            | EB          | WB          | Total    | DAILY TOTALS |             |      |     |     |    |    |       |
|----------------------------|-------------|-------------|----------|----------|-------------|---------------|-------------|-------------|----------|--------------|-------------|------|-----|-----|----|----|-------|
| TIME                       | NB          | SB          | EB       | WB       | TOTAL       | TIME          | NB          | SB          | EB       | WB           | TOTAL       | TIME | NB  | SB  | EB | WB | Total |
| <b>15-Minutes Interval</b> |             |             |          |          |             |               |             |             |          |              |             |      |     |     |    |    |       |
| 0:00                       | 5           | 5           |          |          | 10          | 12:00         | 80          | 78          |          |              | 158         | 0:00 | 14  | 18  |    |    | 32    |
| 0:15                       | 4           | 6           |          |          | 10          | 12:15         | 83          | 79          |          |              | 162         | 0:15 | 15  | 12  |    |    | 27    |
| 0:30                       | 4           | 3           |          |          | 7           | 12:30         | 100         | 95          |          |              | 195         | 0:30 | 14  | 19  |    |    | 33    |
| 0:45                       | 1           | 4           |          |          | 5           | 12:45         | 83          | 100         |          |              | 183         | 0:45 | 13  | 20  |    |    | 33    |
| 1:00                       | 5           | 4           |          |          | 9           | 13:00         | 83          | 76          |          |              | 159         | 1:00 | 59  | 48  |    |    | 107   |
| 1:15                       | 5           | 3           |          |          | 8           | 13:15         | 104         | 89          |          |              | 193         | 1:15 | 97  | 191 |    |    | 288   |
| 1:30                       | 4           | 1           |          |          | 5           | 13:30         | 95          | 94          |          |              | 189         | 1:30 | 276 | 400 |    |    | 676   |
| 1:45                       | 1           | 4           |          |          | 5           | 13:45         | 82          | 98          |          |              | 180         | 1:45 | 464 | 579 |    |    | 1043  |
| 2:00                       | 4           | 6           |          |          | 10          | 14:00         | 88          | 97          |          |              | 185         | 2:00 | 359 | 521 |    |    | 880   |
| 2:15                       | 5           | 2           |          |          | 7           | 14:15         | 112         | 101         |          |              | 213         | 2:15 | 383 | 377 |    |    | 760   |
| 2:30                       | 2           | 3           |          |          | 5           | 14:30         | 123         | 96          |          |              | 219         | 2:30 | 369 | 310 |    |    | 679   |
| 2:45                       | 3           | 8           |          |          | 11          | 14:45         | 96          | 103         |          |              | 199         | 2:45 | 332 | 320 |    |    | 652   |
| 3:00                       | 3           | 4           |          |          | 7           | 15:00         | 123         | 100         |          |              | 223         | 3:00 | 346 | 352 |    |    | 698   |
| 3:15                       | 1           | 4           |          |          | 5           | 15:15         | 109         | 104         |          |              | 213         | 3:15 | 364 | 357 |    |    | 721   |
| 3:30                       | 3           | 6           |          |          | 9           | 15:30         | 126         | 102         |          |              | 228         | 3:30 | 419 | 397 |    |    | 816   |
| 3:45                       | 6           | 6           |          |          | 12          | 15:45         | 128         | 153         |          |              | 281         | 3:45 | 486 | 459 |    |    | 945   |
| 4:00                       | 10          | 8           |          |          | 18          | 16:00         | 115         | 94          |          |              | 209         | 4:00 | 495 | 411 |    |    | 906   |
| 4:15                       | 7           | 9           |          |          | 16          | 16:15         | 115         | 103         |          |              | 218         | 4:15 | 507 | 348 |    |    | 855   |
| 4:30                       | 24          | 13          |          |          | 37          | 16:30         | 131         | 124         |          |              | 255         | 4:30 | 413 | 424 |    |    | 837   |
| 4:45                       | 18          | 18          |          |          | 36          | 16:45         | 134         | 90          |          |              | 224         | 4:45 | 298 | 273 |    |    | 571   |
| 5:00                       | 16          | 28          |          |          | 44          | 17:00         | 151         | 98          |          |              | 249         | 5:00 | 203 | 258 |    |    | 461   |
| 5:15                       | 20          | 33          |          |          | 53          | 17:15         | 135         | 88          |          |              | 223         | 5:15 | 148 | 116 |    |    | 264   |
| 5:30                       | 38          | 56          |          |          | 94          | 17:30         | 125         | 90          |          |              | 215         | 5:30 | 61  | 81  |    |    | 142   |
| 5:45                       | 23          | 74          |          |          | 97          | 17:45         | 96          | 72          |          |              | 168         | 5:45 | 36  | 53  |    |    | 89    |
| 6:00                       | 45          | 74          |          |          | 119         | 18:00         | 122         | 117         |          |              | 239         |      |     |     |    |    |       |
| 6:15                       | 72          | 109         |          |          | 181         | 18:15         | 98          | 118         |          |              | 216         |      |     |     |    |    |       |
| 6:30                       | 68          | 111         |          |          | 179         | 18:30         | 99          | 109         |          |              | 208         |      |     |     |    |    |       |
| 6:45                       | 91          | 106         |          |          | 197         | 18:45         | 94          | 80          |          |              | 174         |      |     |     |    |    |       |
| 7:00                       | 106         | 112         |          |          | 218         | 19:00         | 97          | 68          |          |              | 165         |      |     |     |    |    |       |
| 7:15                       | 106         | 138         |          |          | 244         | 19:15         | 74          | 75          |          |              | 149         |      |     |     |    |    |       |
| 7:30                       | 139         | 157         |          |          | 296         | 19:30         | 63          | 59          |          |              | 122         |      |     |     |    |    |       |
| 7:45                       | 113         | 172         |          |          | 285         | 19:45         | 64          | 71          |          |              | 135         |      |     |     |    |    |       |
| 8:00                       | 73          | 160         |          |          | 233         | 20:00         | 54          | 45          |          |              | 99          |      |     |     |    |    |       |
| 8:15                       | 84          | 123         |          |          | 207         | 20:15         | 59          | 90          |          |              | 149         |      |     |     |    |    |       |
| 8:30                       | 111         | 112         |          |          | 223         | 20:30         | 39          | 62          |          |              | 101         |      |     |     |    |    |       |
| 8:45                       | 91          | 126         |          |          | 217         | 20:45         | 51          | 61          |          |              | 112         |      |     |     |    |    |       |
| 9:00                       | 88          | 83          |          |          | 171         | 21:00         | 45          | 29          |          |              | 74          |      |     |     |    |    |       |
| 9:15                       | 104         | 102         |          |          | 206         | 21:15         | 35          | 37          |          |              | 72          |      |     |     |    |    |       |
| 9:30                       | 100         | 91          |          |          | 191         | 21:30         | 42          | 24          |          |              | 66          |      |     |     |    |    |       |
| 9:45                       | 91          | 101         |          |          | 192         | 21:45         | 26          | 26          |          |              | 52          |      |     |     |    |    |       |
| 10:00                      | 108         | 86          |          |          | 194         | 22:00         | 20          | 21          |          |              | 41          |      |     |     |    |    |       |
| 10:15                      | 87          | 72          |          |          | 159         | 22:15         | 13          | 25          |          |              | 38          |      |     |     |    |    |       |
| 10:30                      | 96          | 84          |          |          | 180         | 22:30         | 18          | 17          |          |              | 35          |      |     |     |    |    |       |
| 10:45                      | 78          | 68          |          |          | 146         | 22:45         | 10          | 18          |          |              | 28          |      |     |     |    |    |       |
| 11:00                      | 86          | 78          |          |          | 164         | 23:00         | 10          | 13          |          |              | 23          |      |     |     |    |    |       |
| 11:15                      | 78          | 85          |          |          | 163         | 23:15         | 4           | 21          |          |              | 25          |      |     |     |    |    |       |
| 11:30                      | 86          | 71          |          |          | 157         | 23:30         | 15          | 7           |          |              | 22          |      |     |     |    |    |       |
| 11:45                      | 82          | 86          |          |          | 168         | 23:45         | 7           | 12          |          |              | 19          |      |     |     |    |    |       |
| <b>TOTALS</b>              | <b>2395</b> | <b>2815</b> | <b>0</b> | <b>0</b> | <b>5210</b> | <b>TOTALS</b> | <b>3776</b> | <b>3529</b> | <b>0</b> | <b>0</b>     | <b>7305</b> |      |     |     |    |    |       |
| SPLIT %                    | 46%         | 54%         | 0%       | 0%       | 42%         | SPLIT %       | 52%         | 48%         | 0%       | 0%           | 58%         |      |     |     |    |    |       |



**VOLUME**

SR 211 Bet Ridgemoor Dr &amp; Pleasant Hill Ln

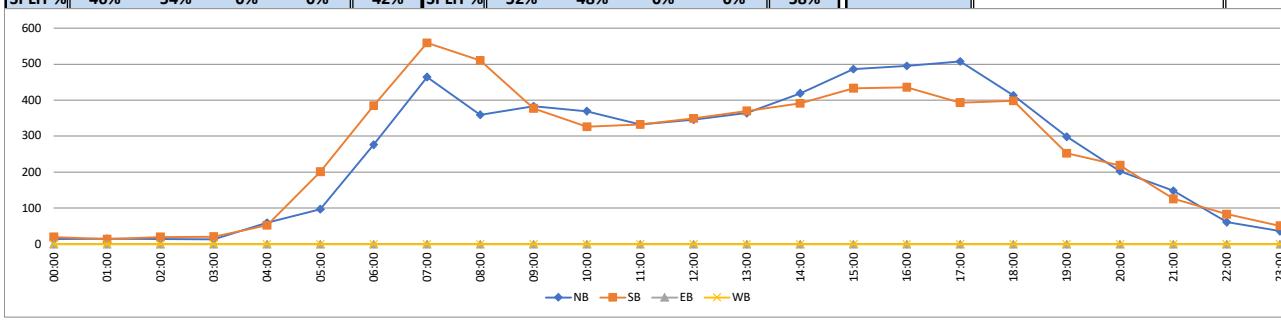
Day: Tuesday

Date: 3/25/2025

City: Braselton

Project #: 25\_180067\_001

| DAILY TOTALS  |             |             |          |          | NB          | SB            | EB          | WB          | Total    | DAILY TOTALS |             |      |     |     |    |    |       |
|---------------|-------------|-------------|----------|----------|-------------|---------------|-------------|-------------|----------|--------------|-------------|------|-----|-----|----|----|-------|
| TIME          | NB          | SB          | EB       | WB       | TOTAL       | TIME          | NB          | SB          | EB       | WB           | TOTAL       | TIME | NB  | SB  | EB | WB | TOTAL |
| 0:00          | 8           | 4           |          |          | 12          | 12:00         | 96          | 81          |          |              | 177         | 0:00 | 18  | 20  |    |    | 38    |
| 0:15          | 4           | 7           |          |          | 11          | 12:15         | 84          | 79          |          |              | 163         | 0:15 | 13  | 14  |    |    | 27    |
| 0:30          | 4           | 3           |          |          | 7           | 12:30         | 88          | 98          |          |              | 186         | 0:30 | 16  | 20  |    |    | 36    |
| 0:45          | 2           | 6           |          |          | 8           | 12:45         | 78          | 91          |          |              | 169         | 0:45 | 17  | 21  |    |    | 38    |
| 1:00          | 5           | 4           |          |          | 9           | 13:00         | 85          | 84          |          |              | 169         | 1:00 | 59  | 52  |    |    | 111   |
| 1:15          | 3           | 3           |          |          | 6           | 13:15         | 95          | 98          |          |              | 193         | 1:15 | 98  | 201 |    |    | 299   |
| 1:30          | 3           | 4           |          |          | 7           | 13:30         | 96          | 89          |          |              | 185         | 1:30 | 287 | 385 |    |    | 672   |
| 1:45          | 2           | 3           |          |          | 5           | 13:45         | 83          | 99          |          |              | 182         | 1:45 | 444 | 559 |    |    | 1003  |
| 2:00          | 4           | 5           |          |          | 9           | 14:00         | 91          | 99          |          |              | 190         | 2:00 | 370 | 510 |    |    | 880   |
| 2:15          | 4           | 2           |          |          | 6           | 14:15         | 115         | 100         |          |              | 215         | 2:15 | 407 | 377 |    |    | 784   |
| 2:30          | 4           | 3           |          |          | 7           | 14:30         | 123         | 88          |          |              | 211         | 2:30 | 363 | 326 |    |    | 689   |
| 2:45          | 4           | 10          |          |          | 14          | 14:45         | 110         | 104         |          |              | 214         | 2:45 | 353 | 332 |    |    | 685   |
| 3:00          | 4           | 5           |          |          | 9           | 15:00         | 110         | 91          |          |              | 201         | 3:00 | 346 | 349 |    |    | 695   |
| 3:15          | 2           | 3           |          |          | 5           | 15:15         | 113         | 98          |          |              | 211         | 3:15 | 359 | 370 |    |    | 729   |
| 3:30          | 5           | 7           |          |          | 12          | 15:30         | 129         | 105         |          |              | 234         | 3:30 | 439 | 391 |    |    | 830   |
| 3:45          | 6           | 6           |          |          | 12          | 15:45         | 121         | 139         |          |              | 260         | 3:45 | 473 | 433 |    |    | 906   |
| 4:00          | 10          | 8           |          |          | 18          | 16:00         | 121         | 111         |          |              | 232         | 4:00 | 523 | 436 |    |    | 959   |
| 4:15          | 9           | 8           |          |          | 17          | 16:15         | 121         | 116         |          |              | 237         | 4:15 | 490 | 393 |    |    | 883   |
| 4:30          | 22          | 13          |          |          | 35          | 16:30         | 143         | 108         |          |              | 251         | 4:30 | 388 | 398 |    |    | 786   |
| 4:45          | 18          | 23          |          |          | 41          | 16:45         | 138         | 101         |          |              | 239         | 4:45 | 282 | 252 |    |    | 534   |
| 5:00          | 15          | 27          |          |          | 42          | 17:00         | 145         | 95          |          |              | 240         | 5:00 | 178 | 219 |    |    | 397   |
| 5:15          | 22          | 38          |          |          | 60          | 17:15         | 125         | 107         |          |              | 232         | 5:15 | 146 | 126 |    |    | 272   |
| 5:30          | 33          | 58          |          |          | 91          | 17:30         | 119         | 96          |          |              | 215         | 5:30 | 60  | 83  |    |    | 143   |
| 5:45          | 28          | 78          |          |          | 106         | 17:45         | 101         | 95          |          |              | 196         | 5:45 | 37  | 51  |    |    | 88    |
| 6:00          | 51          | 65          |          |          | 116         | 18:00         | 117         | 106         |          |              | 223         |      |     |     |    |    |       |
| 6:15          | 65          | 109         |          |          | 174         | 18:15         | 92          | 108         |          |              | 200         |      |     |     |    |    |       |
| 6:30          | 79          | 112         |          |          | 191         | 18:30         | 93          | 101         |          |              | 194         |      |     |     |    |    |       |
| 6:45          | 92          | 99          |          |          | 191         | 18:45         | 86          | 83          |          |              | 169         |      |     |     |    |    |       |
| 7:00          | 100         | 108         |          |          | 208         | 19:00         | 83          | 67          |          |              | 150         |      |     |     |    |    |       |
| 7:15          | 109         | 125         |          |          | 234         | 19:15         | 70          | 64          |          |              | 134         |      |     |     |    |    |       |
| 7:30          | 128         | 161         |          |          | 289         | 19:30         | 67          | 55          |          |              | 122         |      |     |     |    |    |       |
| 7:45          | 107         | 165         |          |          | 272         | 19:45         | 62          | 66          |          |              | 128         |      |     |     |    |    |       |
| 8:00          | 79          | 156         |          |          | 235         | 20:00         | 46          | 46          |          |              | 92          |      |     |     |    |    |       |
| 8:15          | 90          | 126         |          |          | 216         | 20:15         | 51          | 70          |          |              | 121         |      |     |     |    |    |       |
| 8:30          | 105         | 114         |          |          | 219         | 20:30         | 38          | 52          |          |              | 90          |      |     |     |    |    |       |
| 8:45          | 96          | 114         |          |          | 210         | 20:45         | 43          | 51          |          |              | 94          |      |     |     |    |    |       |
| 9:00          | 103         | 87          |          |          | 190         | 21:00         | 46          | 33          |          |              | 79          |      |     |     |    |    |       |
| 9:15          | 115         | 100         |          |          | 215         | 21:15         | 37          | 35          |          |              | 72          |      |     |     |    |    |       |
| 9:30          | 102         | 98          |          |          | 200         | 21:30         | 39          | 32          |          |              | 71          |      |     |     |    |    |       |
| 9:45          | 87          | 92          |          |          | 179         | 21:45         | 24          | 26          |          |              | 50          |      |     |     |    |    |       |
| 10:00         | 87          | 87          |          |          | 174         | 22:00         | 18          | 22          |          |              | 40          |      |     |     |    |    |       |
| 10:15         | 93          | 77          |          |          | 170         | 22:15         | 14          | 22          |          |              | 36          |      |     |     |    |    |       |
| 10:30         | 97          | 84          |          |          | 181         | 22:30         | 17          | 24          |          |              | 41          |      |     |     |    |    |       |
| 10:45         | 86          | 78          |          |          | 164         | 22:45         | 11          | 15          |          |              | 26          |      |     |     |    |    |       |
| 11:00         | 85          | 80          |          |          | 165         | 23:00         | 11          | 12          |          |              | 23          |      |     |     |    |    |       |
| 11:15         | 87          | 85          |          |          | 172         | 23:15         | 6           | 20          |          |              | 26          |      |     |     |    |    |       |
| 11:30         | 87          | 79          |          |          | 166         | 23:30         | 13          | 9           |          |              | 22          |      |     |     |    |    |       |
| 11:45         | 94          | 88          |          |          | 182         | 23:45         | 7           | 10          |          |              | 17          |      |     |     |    |    |       |
| <b>TOTALS</b> | <b>2445</b> | <b>2817</b> | <b>0</b> | <b>0</b> | <b>5262</b> | <b>TOTALS</b> | <b>3721</b> | <b>3501</b> | <b>0</b> | <b>0</b>     | <b>7222</b> |      |     |     |    |    |       |
| SPLIT %       | 46%         | 54%         | 0%       | 0%       | 42%         | SPLIT %       | 52%         | 48%         | 0%       | 0%           | 58%         |      |     |     |    |    |       |

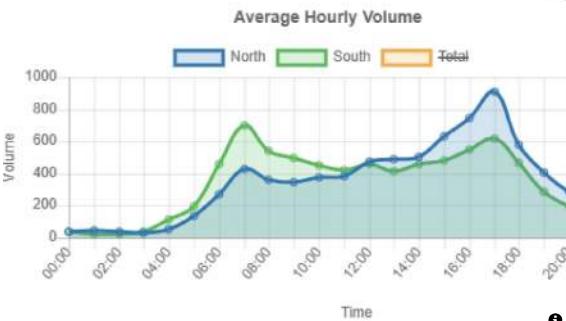


**0000139\_0292 - 139-0292**

- SRT 021100 R  
**County:** Hall  
**Route number:** 00005300  
**LRS section:** 1391005300  
**Functional class:** 4U - Minor Arterial (Urban)  
**Coordinates:** 34.1665067600397,

**Site Data****Count History**

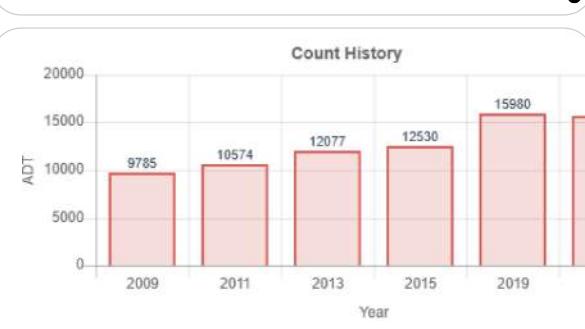
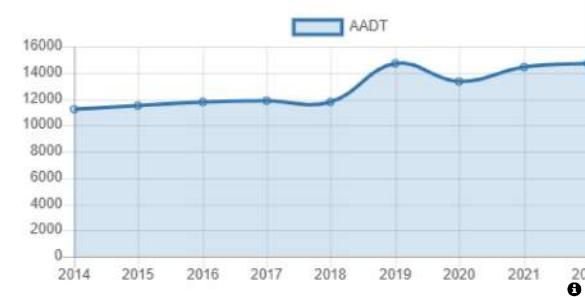
| Year | Month     | Count type | Duration | Count  | ADT    |
|------|-----------|------------|----------|--------|--------|
| 2021 | June      | Class      | 48 hours | 31,364 | 15,682 |
| 2019 | August    | Class      | 48 hours | 31,959 | 15,985 |
| 2015 | June      | Class      | 48 hours | 25,060 | 12,530 |
| 2013 | June      | Volume     | 48 hours | 24,154 | 12,077 |
| 2011 | September | Class      | 48 hours | 21,149 | 10,571 |
| 2009 | February  | Class      | 48 hours | 19,570 | 9,785  |

**Vehicle Classification 2021**

|   |  |               |
|---|--|---------------|
| <b>1. Motorcycles</b><br>2 axles, 2 or 3 wheels.  |  | <b>0.37%</b>  |
| <b>2. Passenger cars</b><br>2 axles. Can have 1- or 2-axle trailers.                            |  | <b>63.18%</b> |
| <b>3. Pickups, panels, vans</b><br>2-axle, 4-tire single units. Can have 1- or 2-axle trailers. |  | <b>25.55%</b> |
| <b>4. Buses</b><br>2- or 3-axle, full length.   |  | <b>0.53%</b>  |
| <b>5. Single-unit trucks</b><br>2-axle, 6-tire, (dual rear tires), single-unit trucks.          |  | <b>4.61%</b>  |
| <b>6. Single-unit trucks</b><br>3-axle, single-unit trucks.                                     |  | <b>1.22%</b>  |
| <b>7. Single-unit trucks</b><br>4 or more axle, single-unit trucks.                             |  | <b>0.04%</b>  |
| <b>8. Single-trailer trucks</b><br>3- or 4-axle, single-trailer trucks.                         |  | <b>1.42%</b>  |
| <b>9. Single-trailer trucks</b><br>5-axle, single-trailer trucks.                               |  | <b>2.89%</b>  |
| <b>10. Single-trailer trucks</b><br>6 or more axle, single-trailer trucks.                      |  | <b>0.11%</b>  |
| <b>11. Multi-trailer trucks</b><br>5 or less axle, multi-trailer trucks.                        |  | <b>0.02%</b>  |
| <b>12. Multi-trailer trucks</b><br>6-axle, multi-trailer trucks.                                |  | <b>0.02%</b>  |
| <b>13. Multi-trailer trucks</b><br>7 or more axle, multi-trailer trucks.                        |  | <b>0.03%</b>  |

**Annual Statistics**

| Data Item       | 2014   | 2015   | 2016      | 2017      | 2018      | 2019   | 2020      | 2021   | 2022      | 2023         |
|-----------------|--------|--------|-----------|-----------|-----------|--------|-----------|--------|-----------|--------------|
| Statistics type | -      | Actual | Estimated | Estimated | Estimated | Actual | Estimated | Actual | Estimated | Estimated    |
| AADT            | 11,200 | 11,500 | 11,800    | 11,900    | 11,800    | 14,700 | 13,300    | 14,400 | 14,700    | 14,800       |
| K-Factor        | 0.090  | 0.112  | 0.112     | -         | -         | 0.110  | 0.110     | 0.114  | 0.114     | <b>0.114</b> |
| D-Factor        | 0.600  | 0.600  | 0.600     | -         | -         | 0.620  | 0.620     | 0.590  | 0.590     | <b>0.590</b> |
| Future AADT     | -      | -      | 13,700    | 15,300    | 20,000    | 23,200 | 23,200    | 23,700 | 23,500    | 24,200       |

**AADT Trend**

**0000139\_0545 - 139-0545**

- CRT 130000 L

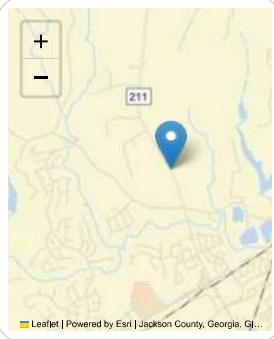
County: Hall

Route number: 00021100

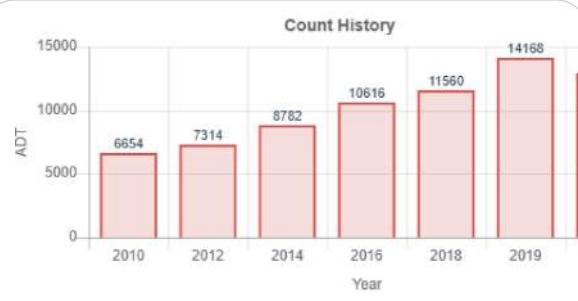
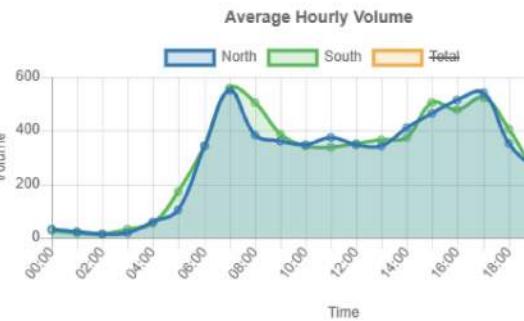
LRS section: 1391021100

Functional class: 4U - Minor Arterial (Urban)

Coordinates: 34.13548897, -83.83359503

**Site Data****Count History**

| Year | Month     | Count type | Duration | Count  | ADT    |
|------|-----------|------------|----------|--------|--------|
| 2022 | August    | Class      | 48 hours | 25,732 | 12,866 |
| 2019 | December  | Class      | 48 hours | 28,337 | 14,168 |
| 2018 | September | Class      | 48 hours | 23,119 | 11,561 |
| 2016 | July      | Class      | 48 hours | 21,231 | 10,611 |
| 2014 | April     | Volume     | 48 hours | 17,564 | 8,782  |
| 2012 | January   | Volume     | 48 hours | 14,627 | 7,314  |
| 2010 | January   | Class      | 48 hours | 13,309 | 6,654  |

**Annual Statistics**

| Data Item       | 2014  | 2015      | 2016   | 2017      | 2018   | 2019      | 2020   | 2021      | 2022   | 2023      |
|-----------------|-------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| Statistics type | -     | Estimated | Actual | Estimated | Actual | Estimated | Actual | Estimated | Actual | Estimated |
| AADT            | 8,420 | 8,700     | 9,950  | 10,000    | 10,600 | 10,700    | 12,800 | 13,700    | 11,800 | 11,900    |
| K-Factor        | 0.099 | 0.099     | 0.112  | -         | 0.094  | 0.094     | 0.111  | 0.111     | 0.095  | 0.095     |
| D-Factor        | 0.500 | 0.500     | 0.600  | -         | 0.550  | 0.550     | 0.570  | 0.570     | 0.530  | 0.530     |
| Future AADT     | -     | -         | 16,400 | 21,800    | 20,600 | 20,300    | 20,300 | 23,200    | 21,700 | 19,900    |

**Vehicle Classification 2022**

|   |  |               |
|---|--|---------------|
| <b>1. Motorcycles</b><br>2 axles, 2 or 3 wheels.  |  | <b>0.50%</b>  |
| <b>2. Passenger cars</b><br>2 axles. Can have 1- or 2-axle trailers.                            |  | <b>70.27%</b> |
| <b>3. Pickups, panels, vans</b><br>2-axle, 4-tire single units. Can have 1- or 2-axle trailers. |  | <b>21.97%</b> |
| <b>4. Buses</b><br>2- or 3-axle, full length.   |  | <b>0.56%</b>  |
| <b>5. Single-unit trucks</b><br>2-axle, 6-tire, (dual rear tires), single-unit trucks.          |  | <b>4.17%</b>  |
| <b>6. Single-unit trucks</b><br>3-axle, single-unit trucks.                                     |  | <b>0.83%</b>  |
| <b>7. Single-unit trucks</b><br>4 or more axle, single-unit trucks.                             |  | <b>0.07%</b>  |
| <b>8. Single-trailer trucks</b><br>3- or 4-axle, single-trailer trucks.                         |  | <b>0.84%</b>  |
| <b>9. Single-trailer trucks</b><br>5-axle, single-trailer trucks.                               |  | <b>0.72%</b>  |
| <b>10. Single-trailer trucks</b><br>6 or more axle, single-trailer trucks.                      |  | <b>0.07%</b>  |
| <b>11. Multi-trailer trucks</b><br>5 or less axle, multi-trailer trucks.                        |  | <b>0%</b>     |
| <b>12. Multi-trailer trucks</b><br>6-axle, multi-trailer trucks.                                |  | <b>0.01%</b>  |
| <b>13. Multi-trailer trucks</b><br>7 or more axle, multi-trailer trucks.                        |  | <b>0%</b>     |

## HISTORICAL TRAFFIC COUNTS

Hall County, Georgia

| Location  | Counter ID |        |        |      |        |        |        |        |        | Forecast      |               | Compounded Growth Rate |                |
|---|------------|--------|--------|------|--------|--------|--------|--------|--------|---------------|---------------|------------------------|----------------|
|   |            | 2015   | 2016   | 2017 | 2018   | 2019   | 2020   | 2021   | 2022   | 2025          | 2027          | 2025 - 2027            | Percent        |
| SR 211 n/o SR 347   | 139-0545   |        | 9,950  |      | 10,600 |        | 12,800 |        | 11,800 | 13,613        | 14,388        | 2.81%                  | 24.37%         |
| SR 53 e/o SR 211  | 139-0292   | 11,500 |        |      |        | 14,700 |        | 14,400 |        | 17,057        | 18,114        | 3.05%                  | 30.68%         |
| SR 53 w/o SR 211  | 139-0289   |        | 21,400 |      | 23,100 |        | 23,000 |        | 24,400 | 25,645        | 26,535        | 1.72%                  | 44.95%         |
| <b>Data Taken From GDOT's Traffic Analysis &amp; Data Application</b> |            |        |        |      |        |        |        |        |        | <b>56,315</b> | <b>59,037</b> | <b>2.4%</b>            | <b>100.00%</b> |

## Single-Family Attached Housing (215)

Based upon methodology from ITE's Trip Generation, 11th Edition (2021)

| Project Land Use               | Project Density  | Project Trips |         |          | ITE Code | Variable       | Equation Used <sup>1</sup>   | In/Out Distribution |     | Average Rate |
|--------------------------------|--|---------------|---------|----------|----------|----------------|--|---------------------|-----|--------------|
|                                |  | Total         | Inbound | Outbound |          |                |  |                     |     |              |
| Single-Family Attached Housing | 37 DU<br>Daily<br>AM Peak Hour (One Hour from 7-9)<br>PM Peak Hour (One Hour from 4-6) | <b>232</b>    | 116     | 116      | 215      | Dwelling Units | $T = 7.62 * X - 50.48$<br>$T = 0.52 * X - 5.7$<br>$T = 0.6 * X - 3.93$ | 50%                 | 50% | 7.20         |
|                                |  | <b>14</b>     | 4       | 10       |          |                |  | 31%                 | 69% | 0.48         |
|                                |  | <b>18</b>     | 10      | 8        |          |                |  | 57%                 | 43% | 0.57         |
| Reductions for Pass-By Trips   |  | <b>0</b>      | 0       | 0        |          |                |  |                     |     |              |
| TOTAL PROJECT TRIPS            | Daily<br>AM Peak Hour<br>PM Peak Hour  | <b>232</b>    | 116     | 116      |          |                |  |                     |     |              |
|                                |  | <b>14</b>     | 4       | 10       |          |                |  |                     |     |              |
|                                |  | <b>18</b>     | 10      | 8        |          |                |  |                     |     |              |

Note:

<sup>1</sup> Where: T = Trips; X = Density by Variable

## APPENDIX C: SYNCHRO REPORTS

## Timings

1: SR 211 &amp; SR 347/Bayberry Dr

06/03/2025

| Lane Group             | EBU    | EBL   | EBT   | EBR   | WBL   | WBT   | NBL   | NBT   | SBL   | SBT   | SBR   |
|------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations    |        |       |       |       |       |       |       |       |       |       |       |
| Traffic Volume (vph)   | 1      | 180   | 64    | 308   | 27    | 101   | 525   | 374   | 21    | 441   | 350   |
| Future Volume (vph)    | 1      | 180   | 64    | 308   | 27    | 101   | 525   | 374   | 21    | 441   | 350   |
| Turn Type              | custom | pm+pt | NA    | Perm  | Perm  | NA    | Prot  | NA    | Prot  | NA    | Perm  |
| Protected Phases       |        |       | 3     | 8     |       | 4     | 1     | 6     | 5     | 2     |       |
| Permitted Phases       | 3      | 8     |       | 8     | 4     |       | 1     | 6     | 5     | 2     | 2     |
| Detector Phase         | 3      | 3     | 8     | 8     | 4     | 4     | 1     | 6     | 5     | 2     | 2     |
| Switch Phase           |        |       |       |       |       |       |       |       |       |       |       |
| Minimum Initial (s)    | 4.0    | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   |
| Minimum Split (s)      | 10.0   | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  |
| Total Split (s)        | 20.0   | 20.0  | 40.0  | 40.0  | 20.0  | 20.0  | 45.0  | 80.0  | 20.0  | 55.0  | 55.0  |
| Total Split (%)        | 14.3%  | 14.3% | 28.6% | 28.6% | 14.3% | 14.3% | 32.1% | 57.1% | 14.3% | 39.3% | 39.3% |
| Yellow Time (s)        | 4.0    | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)       | 2.0    | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| Lost Time Adjust (s)   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Lost Time (s)    | 6.0    | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   |
| Lead/Lag               | Lead   | Lead  |       |       | Lag   | Lag   | Lead  | Lag   | Lead  | Lag   | Lag   |
| Lead-Lag Optimize?     | Yes    | Yes   |       |       | Yes   |
| Recall Mode            | None   | None  | None  | None  | None  | None  | None  | C-Max | None  | C-Max | C-Max |
| Act Effect Green (s)   | 33.4   | 33.4  | 33.4  | 13.5  | 13.5  | 30.5  | 86.0  | 7.3   | 58.2  | 58.2  |       |
| Actuated g/C Ratio     | 0.24   | 0.24  | 0.24  | 0.10  | 0.10  | 0.22  | 0.61  | 0.05  | 0.42  | 0.42  |       |
| v/c Ratio              | 0.82   | 0.15  | 0.55  | 0.23  | 0.85  | 0.82  | 0.40  | 0.24  | 0.64  | 0.45  |       |
| Control Delay (s/veh)  | 73.8   | 43.0  | 8.1   | 62.9  | 93.7  | 62.0  | 16.3  | 69.3  | 38.6  | 6.5   |       |
| Queue Delay            | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |       |
| Total Delay (s/veh)    | 73.8   | 43.0  | 8.1   | 62.9  | 93.7  | 62.0  | 16.3  | 69.3  | 38.6  | 6.5   |       |
| LOS                    | E      | D     | A     | E     | F     | E     | B     | E     | D     | A     |       |
| Approach Delay (s/veh) |        | 33.6  |       |       | 88.7  |       | 42.6  |       | 25.6  |       |       |
| Approach LOS           |        | C     |       |       | F     |       | D     |       | C     |       |       |

## Intersection Summary

Cycle Length: 140

Actuated Cycle Length: 140

Offset: 0 (0%), Referenced to phase 2:SBT and 6:NBT, Start of Green

Natural Cycle: 80

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.85

Intersection Signal Delay (s/veh): 38.2

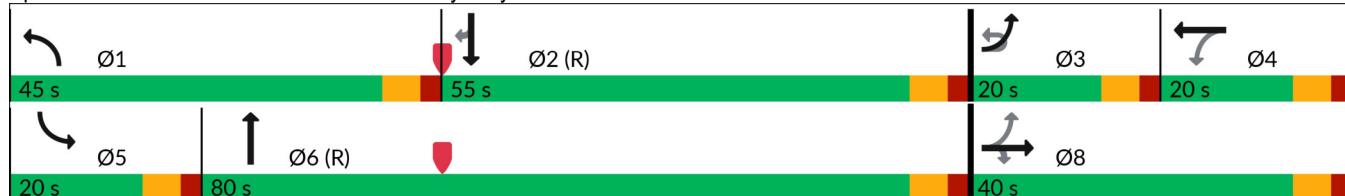
Intersection LOS: D

Intersection Capacity Utilization 75.9%

ICU Level of Service D

Analysis Period (min) 15

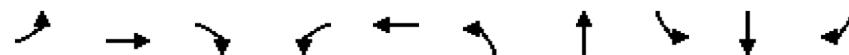
Splits and Phases: 1: SR 211 &amp; SR 347/Bayberry Dr



## Queues

1: SR 211 &amp; SR 347/Bayberry Dr

06/03/2025



| Lane Group              | EBL  | EBT  | EBR  | WBL  | WBT  | NBL  | NBT  | SBL  | SBT  | SBR  |
|-------------------------|------|------|------|------|------|------|------|------|------|------|
| Lane Group Flow (vph)   | 192  | 68   | 328  | 30   | 154  | 597  | 440  | 23   | 479  | 380  |
| v/c Ratio               | 0.82 | 0.15 | 0.55 | 0.23 | 0.85 | 0.82 | 0.40 | 0.24 | 0.64 | 0.45 |
| Control Delay (s/veh)   | 73.8 | 43.0 | 8.1  | 62.9 | 93.7 | 62.0 | 16.3 | 69.3 | 38.6 | 6.5  |
| Queue Delay             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Total Delay (s/veh)     | 73.8 | 43.0 | 8.1  | 62.9 | 93.7 | 62.0 | 16.3 | 69.3 | 38.6 | 6.5  |
| Queue Length 50th (ft)  | 150  | 49   | 0    | 26   | 130  | 269  | 214  | 21   | 345  | 21   |
| Queue Length 95th (ft)  | #236 | 92   | 82   | 60   | #252 | 309  | 297  | 51   | 515  | 105  |
| Internal Link Dist (ft) |      | 1881 |      |      | 827  |      | 1407 |      | 3359 |      |
| Turn Bay Length (ft)    |      |      |      |      |      | 400  |      | 255  |      | 460  |
| Base Capacity (vph)     | 234  | 448  | 601  | 135  | 188  | 929  | 1113 | 180  | 752  | 838  |
| Starvation Cap Reductn  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Spillback Cap Reductn   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Storage Cap Reductn     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Reduced v/c Ratio       | 0.82 | 0.15 | 0.55 | 0.22 | 0.82 | 0.64 | 0.40 | 0.13 | 0.64 | 0.45 |

## Intersection Summary

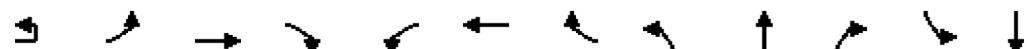
# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

## HCM 7th Signalized Intersection Summary

1: SR 211 &amp; SR 347/Bayberry Dr

06/03/2025



| Movement                         | EBU  | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  |
|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations              |      |      |      |      |      |      |      |      |      |      |      |      |
| Traffic Volume (veh/h)           | 1    | 180  | 64   | 308  | 27   | 101  | 39   | 525  | 374  | 13   | 21   | 441  |
| Future Volume (veh/h)            | 1    | 180  | 64   | 308  | 27   | 101  | 39   | 525  | 374  | 13   | 21   | 441  |
| Initial Q (Q <sub>b</sub> ), veh | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Lane Width Adj.                  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT)              | 1.00 |      |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      |
| Parking Bus, Adj                 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach            | No   |      |      | No   |      |      | No   |      |      | No   |      | No   |
| Adj Sat Flow, veh/h/ln           | 1811 | 1856 | 1737 | 1900 | 1856 | 1900 | 1826 | 1841 | 1678 | 1900 | 1826 |      |
| Adj Flow Rate, veh/h             | 191  | 68   | 328  | 30   | 111  | 43   | 597  | 425  | 0    | 23   | 479  |      |
| Peak Hour Factor                 | 0.94 | 0.94 | 0.94 | 0.91 | 0.91 | 0.91 | 0.88 | 0.88 | 0.88 | 0.92 | 0.92 |      |
| Percent Heavy Veh, %             | 6    | 3    | 11   | 0    | 3    | 0    | 5    | 4    | 15   | 0    | 5    |      |
| Cap, veh/h                       | 241  | 451  | 357  | 152  | 127  | 49   | 673  | 1126 |      | 31   | 784  |      |
| Arrive On Green                  | 0.10 | 0.24 | 0.24 | 0.10 | 0.10 | 0.10 | 0.20 | 0.61 | 0.00 | 0.02 | 0.43 |      |
| Sat Flow, veh/h                  | 1725 | 1856 | 1472 | 1004 | 1273 | 493  | 3374 | 1841 | 0    | 1810 | 1826 |      |
| Grp Volume(v), veh/h             | 191  | 68   | 328  | 30   | 0    | 154  | 597  | 425  | 0    | 23   | 479  |      |
| Grp Sat Flow(s), veh/h/ln        | 1725 | 1856 | 1472 | 1004 | 0    | 1767 | 1687 | 1841 | 0    | 1810 | 1826 |      |
| Q Serve(g_s), s                  | 13.7 | 4.0  | 30.4 | 3.9  | 0.0  | 12.0 | 24.1 | 16.3 | 0.0  | 1.8  | 28.4 |      |
| Cycle Q Clear(g_c), s            | 13.7 | 4.0  | 30.4 | 3.9  | 0.0  | 12.0 | 24.1 | 16.3 | 0.0  | 1.8  | 28.4 |      |
| Prop In Lane                     | 1.00 |      |      | 1.00 |      | 0.28 | 1.00 |      | 0.00 | 1.00 |      |      |
| Lane Grp Cap(c), veh/h           | 241  | 451  | 357  | 152  | 0    | 177  | 673  | 1126 |      | 31   | 784  |      |
| V/C Ratio(X)                     | 0.79 | 0.15 | 0.92 | 0.20 | 0.00 | 0.87 | 0.89 | 0.38 |      | 0.75 | 0.61 |      |
| Avail Cap(c_a), veh/h            | 241  | 451  | 357  | 152  | 0    | 177  | 940  | 1126 |      | 181  | 784  |      |
| HCM Platoon Ratio                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |      |
| Upstream Filter(l)               | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 |      |
| Uniform Delay (d), s/veh         | 49.4 | 41.7 | 51.6 | 58.4 | 0.0  | 62.1 | 54.5 | 13.7 | 0.0  | 68.5 | 30.9 |      |
| Incr Delay (d2), s/veh           | 16.5 | 0.2  | 27.9 | 0.6  | 0.0  | 34.6 | 7.8  | 1.0  | 0.0  | 30.4 | 3.5  |      |
| Initial Q Delay(d3), s/veh       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |      |
| %ile BackOfQ(50%), veh/ln        | 6.9  | 1.8  | 13.7 | 1.0  | 0.0  | 7.2  | 10.7 | 6.7  | 0.0  | 1.1  | 12.9 |      |
| Unsig. Movement Delay, s/veh     |      |      |      |      |      |      |      |      |      |      |      |      |
| LnGrp Delay(d), s/veh            | 65.9 | 41.8 | 79.5 | 59.1 | 0.0  | 96.7 | 62.3 | 14.7 | 0.0  | 98.9 | 34.5 |      |
| LnGrp LOS                        | E    | D    | E    | E    |      | F    | E    | B    |      | F    | C    |      |
| Approach Vol, veh/h              |      |      | 587  |      |      | 184  |      |      | 1022 |      | 502  |      |
| Approach Delay, s/veh            |      |      | 70.7 |      |      | 90.6 |      |      | 42.5 |      | 37.4 |      |
| Approach LOS                     |      |      | E    |      |      | F    |      | D    |      |      | D    |      |
| Timer - Assigned Phs             | 1    | 2    | 3    | 4    | 5    | 6    |      | 8    |      |      |      |      |
| Phs Duration (G+Y+Rc), s         | 33.9 | 66.1 | 20.0 | 20.0 | 8.4  | 91.6 |      | 40.0 |      |      |      |      |
| Change Period (Y+Rc), s          | 6.0  | 6.0  | 6.0  | 6.0  | 6.0  | 6.0  |      | 6.0  |      |      |      |      |
| Max Green Setting (Gmax), s      | 39.0 | 49.0 | 14.0 | 14.0 | 14.0 | 74.0 |      | 34.0 |      |      |      |      |
| Max Q Clear Time (g_c+l1), s     | 26.1 | 30.4 | 15.7 | 14.0 | 3.8  | 18.3 |      | 32.4 |      |      |      |      |
| Green Ext Time (p_c), s          | 1.8  | 2.6  | 0.0  | 0.0  | 0.0  | 2.6  |      | 0.3  |      |      |      |      |

## Intersection Summary

HCM 7th Control Delay, s/veh

52.5

HCM 7th LOS

D

## Notes

User approved ignoring U-Turning movement.

Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.



| Movement                         | SBR  |
|----------------------------------|------|
| Lane Configurations              | 1    |
| Traffic Volume (veh/h)           | 350  |
| Future Volume (veh/h)            | 350  |
| Initial Q (Q <sub>b</sub> ), veh | 0    |
| Lane Width Adj.                  | 1.00 |
| Ped-Bike Adj(A_pbT)              | 1.00 |
| Parking Bus, Adj                 | 1.00 |
| Work Zone On Approach            |      |
| Adj Sat Flow, veh/h/ln           | 1826 |
| Adj Flow Rate, veh/h             | 0    |
| Peak Hour Factor                 | 0.92 |
| Percent Heavy Veh, %             | 5    |
| Cap, veh/h                       |      |
| Arrive On Green                  | 0.00 |
| Sat Flow, veh/h                  | 1547 |
| Grp Volume(v), veh/h             | 0    |
| Grp Sat Flow(s), veh/h/ln        | 1547 |
| Q Serve(g_s), s                  | 0.0  |
| Cycle Q Clear(g_c), s            | 0.0  |
| Prop In Lane                     | 1.00 |
| Lane Grp Cap(c), veh/h           |      |
| V/C Ratio(X)                     |      |
| Avail Cap(c_a), veh/h            |      |
| HCM Platoon Ratio                | 1.00 |
| Upstream Filter(l)               | 0.00 |
| Uniform Delay (d), s/veh         | 0.0  |
| Incr Delay (d2), s/veh           | 0.0  |
| Initial Q Delay(d3), s/veh       | 0.0  |
| %ile BackOfQ(50%), veh/ln        | 0.0  |
| Unsig. Movement Delay, s/veh     |      |
| LnGrp Delay(d), s/veh            | 0.0  |
| LnGrp LOS                        |      |
| Approach Vol, veh/h              |      |
| Approach Delay, s/veh            |      |
| Approach LOS                     |      |
| Timer - Assigned Phs             |      |



| Lane Group             | EBU   | EBT   | EBR   | WBU   | WBL   | WBT   | NBL   | NBR   |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations    | 2     | 429   | 388   | 1     | 137   | 894   | 405   | 51    |
| Traffic Volume (vph)   | 2     | 429   | 388   | 1     | 137   | 894   | 405   | 51    |
| Future Volume (vph)    | 2     | 429   | 388   | 1     | 137   | 894   | 405   | 51    |
| Turn Type              | Perm  | NA    | Perm  | Perm  | Perm  | NA    | Prot  | Perm  |
| Protected Phases       |       | 2     |       |       |       | 6     | 8     |       |
| Permitted Phases       | 2     |       | 2     | 6     | 6     |       | 8     |       |
| Detector Phase         | 2     | 2     | 2     | 6     | 6     | 6     | 8     | 8     |
| Switch Phase           |       |       |       |       |       |       |       |       |
| Minimum Initial (s)    | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |
| Minimum Split (s)      | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  |
| Total Split (s)        | 50.0  | 50.0  | 50.0  | 50.0  | 50.0  | 50.0  | 30.0  | 30.0  |
| Total Split (%)        | 62.5% | 62.5% | 62.5% | 62.5% | 62.5% | 62.5% | 37.5% | 37.5% |
| Yellow Time (s)        | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)       | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| Lost Time Adjust (s)   | 0.0   | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Lost Time (s)    | 6.0   | 6.0   | 6.0   |       | 6.0   | 6.0   | 6.0   | 6.0   |
| Lead/Lag               |       |       |       |       |       |       |       |       |
| Lead-Lag Optimize?     |       |       |       |       |       |       |       |       |
| Recall Mode            | Min   | Min   | Min   | Min   | Min   | Min   | None  | None  |
| Act Effect Green (s)   | 20.3  | 20.3  | 20.3  |       | 20.3  | 20.3  | 11.4  | 11.4  |
| Actuated g/C Ratio     | 0.46  | 0.46  | 0.46  |       | 0.46  | 0.46  | 0.26  | 0.26  |
| v/c Ratio              | 0.01  | 0.33  | 0.49  |       | 0.38  | 0.59  | 0.50  | 0.14  |
| Control Delay (s/veh)  | 7.0   | 8.2   | 2.9   |       | 11.5  | 10.6  | 17.1  | 6.5   |
| Queue Delay            | 0.0   | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Delay (s/veh)    | 7.0   | 8.2   | 2.9   |       | 11.5  | 10.6  | 17.1  | 6.5   |
| LOS                    | A     | A     | A     |       | B     | B     | B     | A     |
| Approach Delay (s/veh) |       | 5.7   |       |       |       | 10.8  | 15.9  |       |
| Approach LOS           |       | A     |       |       |       | B     | B     |       |

## Intersection Summary

Cycle Length: 80

Actuated Cycle Length: 44.2

Natural Cycle: 50

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.59

Intersection Signal Delay (s/veh): 9.8

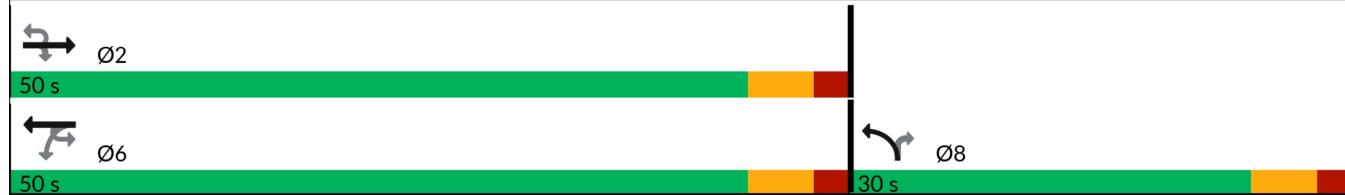
Intersection LOS: A

Intersection Capacity Utilization 55.4%

ICU Level of Service B

Analysis Period (min) 15

Splits and Phases: 2: SR 211 &amp; SR 53





| Lane Group              | EBU  | EBT  | EBR  | WBL  | WBT  | NBL  | NBR  |
|-------------------------|------|------|------|------|------|------|------|
| Lane Group Flow (vph)   | 2    | 505  | 456  | 144  | 931  | 435  | 55   |
| v/c Ratio               | 0.01 | 0.33 | 0.49 | 0.38 | 0.59 | 0.50 | 0.14 |
| Control Delay (s/veh)   | 7.0  | 8.2  | 2.9  | 11.5 | 10.6 | 17.1 | 6.5  |
| Queue Delay             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Total Delay (s/veh)     | 7.0  | 8.2  | 2.9  | 11.5 | 10.6 | 17.1 | 6.5  |
| Queue Length 50th (ft)  | 0    | 37   | 0    | 21   | 80   | 46   | 0    |
| Queue Length 95th (ft)  | 3    | 68   | 29   | 61   | 147  | 101  | 22   |
| Internal Link Dist (ft) | 2207 |      |      | 2068 | 4517 |      |      |
| Turn Bay Length (ft)    | 290  |      | 180  | 190  |      | 260  | 860  |
| Base Capacity (vph)     | 469  | 3147 | 1438 | 765  | 3177 | 1920 | 797  |
| Starvation Cap Reductn  | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Spillback Cap Reductn   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Storage Cap Reductn     | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Reduced v/c Ratio       | 0.00 | 0.16 | 0.32 | 0.19 | 0.29 | 0.23 | 0.07 |

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#### Intersection Summary

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## HCM 7th Signalized Intersection Summary

2: SR 211 &amp; SR 53

06/03/2025



| Movement                                   | EBU  | EBT  | EBR | WBU  | WBL  | WBT  | NBL  | NBR  |
|--|------|------|-----|------|------|------|------|------|
| Lane Configurations                        | 2    | ↑↑   | ↑   | 1    | 137  | 894  | 405  | 51   |
| Traffic Volume (veh/h)                     | 2    | 429  | 388 | 1    | 137  | 894  | 405  | 51   |
| Future Volume (veh/h)                      | 2    | 429  | 388 | 1    | 137  | 894  | 405  | 51   |
| Initial Q (Q <sub>b</sub> ), veh           | 0    | 0    |     | 0    | 0    | 0    | 0    | 0    |
| Lane Width Adj.                            | 1.00 | 1.00 |     | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT)                        |      | 1.00 |     | 1.00 |      | 1.00 | 1.00 |      |
| Parking Bus, Adj                           | 1.00 | 1.00 |     | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach                      | No   |      |     | No   | No   |      |      |      |
| Adj Sat Flow, veh/h/ln                     | 1796 | 1796 |     | 1781 | 1811 | 1856 | 1633 |      |
| Adj Flow Rate, veh/h                       | 505  | 456  |     | 143  | 931  | 435  | 55   |      |
| Peak Hour Factor                           | 0.85 | 0.85 |     | 0.96 | 0.96 | 0.93 | 0.93 |      |
| Percent Heavy Veh, %                       | 7    | 7    |     | 8    | 6    | 3    | 18   |      |
| Cap, veh/h                                 | 1796 | 801  |     | 413  | 1811 | 678  | 274  |      |
| Arrive On Green                            | 0.53 | 0.53 |     | 0.53 | 0.53 | 0.20 | 0.20 |      |
| Sat Flow, veh/h                            | 3503 | 1522 |     | 557  | 3532 | 3428 | 1384 |      |
| Grp Volume(v), veh/h                       | 505  | 456  |     | 143  | 931  | 435  | 55   |      |
| Grp Sat Flow(s), veh/h/ln                  | 1706 | 1522 |     | 557  | 1721 | 1714 | 1384 |      |
| Q Serve(g_s), s                            | 3.6  | 8.8  |     | 8.4  | 7.6  | 5.1  | 1.4  |      |
| Cycle Q Clear(g_c), s                      | 3.6  | 8.8  |     | 11.9 | 7.6  | 5.1  | 1.4  |      |
| Prop In Lane                               | 1.00 |      |     | 1.00 | 1.00 | 1.00 | 1.00 |      |
| Lane Grp Cap(c), veh/h                     | 1796 | 801  |     | 413  | 1811 | 678  | 274  |      |
| V/C Ratio(X)                               | 0.28 | 0.57 |     | 0.35 | 0.51 | 0.64 | 0.20 |      |
| Avail Cap(c_a), veh/h                      | 3454 | 1541 |     | 683  | 3483 | 1893 | 764  |      |
| HCM Platoon Ratio                          | 1.00 | 1.00 |     | 1.00 | 1.00 | 1.00 | 1.00 |      |
| Upstream Filter(l)                         | 1.00 | 1.00 |     | 1.00 | 1.00 | 1.00 | 1.00 |      |
| Uniform Delay (d), s/veh                   | 5.7  | 7.0  |     | 9.0  | 6.7  | 16.0 | 14.6 |      |
| Incr Delay (d2), s/veh                     | 0.1  | 0.6  |     | 0.5  | 0.2  | 1.0  | 0.4  |      |
| Initial Q Delay(d3), s/veh                 | 0.0  | 0.0  |     | 0.0  | 0.0  | 0.0  | 0.0  |      |
| %ile BackOfQ(50%), veh/ln                  | 0.7  | 1.5  |     | 0.7  | 1.4  | 1.6  | 0.4  |      |
| Unsig. Movement Delay, s/veh               |      |      |     |      |      |      |      |      |
| LnGrp Delay(d), s/veh                      | 5.8  | 7.6  |     | 9.5  | 6.9  | 17.0 | 14.9 |      |
| LnGrp LOS                                  | A    | A    |     | A    | A    | B    | B    |      |
| Approach Vol, veh/h                        | 961  |      |     | 1074 | 490  |      |      |      |
| Approach Delay, s/veh                      | 6.7  |      |     | 7.3  | 16.8 |      |      |      |
| Approach LOS                               | A    |      |     | A    | B    |      |      |      |
| Timer - Assigned Phs                       | 2    |      |     | 6    |      | 8    |      |      |
| Phs Duration (G+Y+R <sub>c</sub> ), s      | 28.9 |      |     | 28.9 |      | 14.6 |      |      |
| Change Period (Y+R <sub>c</sub> ), s       | 6.0  |      |     | 6.0  |      | 6.0  |      |      |
| Max Green Setting (Gmax), s                | 44.0 |      |     | 44.0 |      | 24.0 |      |      |
| Max Q Clear Time (g_c+l1), s               | 10.8 |      |     | 13.9 |      | 7.1  |      |      |
| Green Ext Time (p_c), s                    | 5.2  |      |     | 8.9  |      | 1.6  |      |      |
| <b>Intersection Summary</b>                |      |      |     |      |      |      |      |      |
| HCM 7th Control Delay, s/veh               |      | 8.9  |     |      |      |      |      |      |
| HCM 7th LOS                                |      | A    |     |      |      |      |      |      |
| <b>Notes</b>                               |      |      |     |      |      |      |      |      |
| User approved ignoring U-Turning movement. |      |      |     |      |      |      |      |      |

## Intersection

Int Delay, s/veh 0.2

| Movement                 | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations      | ↔    | ↑    | ↑    | ↔    | ↑    | ↑    | ↔    | ↔    | ↑    | ↑    | ↑    | ↑    |
| Traffic Vol, veh/h       | 5    | 0    | 5    | 0    | 0    | 0    | 2    | 423  | 0    | 0    | 607  | 2    |
| Future Vol, veh/h        | 5    | 0    | 5    | 0    | 0    | 0    | 2    | 423  | 0    | 0    | 607  | 2    |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized           | -    | -    | None |
| Storage Length           | -    | -    | -    | 0    | -    | -    | -    | -    | -    | -    | -    | 200  |
| Veh in Median Storage, # | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Grade, %                 | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Peak Hour Factor         | 92   | 92   | 92   | 92   | 92   | 92   | 92   | 83   | 83   | 92   | 92   | 92   |
| Heavy Vehicles, %        | 2    | 2    | 2    | 4    | 2    | 8    | 2    | 5    | 5    | 9    | 6    | 2    |
| Mvmt Flow                | 5    | 0    | 5    | 0    | 0    | 0    | 2    | 510  | 0    | 0    | 660  | 2    |

| Major/Minor          | Minor2 | Minor1 |       |       | Major1 |       |       | Major2 |   |       |   |   |
|----------------------|--------|--------|-------|-------|--------|-------|-------|--------|---|-------|---|---|
| Conflicting Flow All | 1174   | 1174   | 660   | 1174  | 1176   | 510   | 662   | 0      | 0 | 510   | 0 | 0 |
| Stage 1              | 660    | 660    | -     | 514   | 514    | -     | -     | -      | - | -     | - | - |
| Stage 2              | 514    | 514    | -     | 660   | 662    | -     | -     | -      | - | -     | - | - |
| Critical Hdwy        | 7.12   | 6.52   | 6.22  | 7.14  | 6.52   | 6.28  | 4.12  | -      | - | 4.19  | - | - |
| Critical Hdwy Stg 1  | 6.12   | 5.52   | -     | 6.14  | 5.52   | -     | -     | -      | - | -     | - | - |
| Critical Hdwy Stg 2  | 6.12   | 5.52   | -     | 6.14  | 5.52   | -     | -     | -      | - | -     | - | - |
| Follow-up Hdwy       | 3.518  | 4.018  | 3.318 | 3.536 | 4.018  | 3.372 | 2.218 | -      | - | 2.281 | - | - |
| Pot Cap-1 Maneuver   | 169    | 192    | 463   | 167   | 191    | 552   | 927   | -      | - | 1020  | - | - |
| Stage 1              | 452    | 460    | -     | 540   | 535    | -     | -     | -      | - | -     | - | - |
| Stage 2              | 543    | 535    | -     | 449   | 459    | -     | -     | -      | - | -     | - | - |
| Platoon blocked, %   |        |        |       |       |        |       |       | -      | - | -     | - | - |
| Mov Cap-1 Maneuver   | 168    | 191    | 463   | 165   | 191    | 552   | 927   | -      | - | 1020  | - | - |
| Mov Cap-2 Maneuver   | 168    | 191    | -     | 165   | 191    | -     | -     | -      | - | -     | - | - |
| Stage 1              | 452    | 460    | -     | 538   | 534    | -     | -     | -      | - | -     | - | - |
| Stage 2              | 542    | 534    | -     | 444   | 459    | -     | -     | -      | - | -     | - | - |

| Approach              | EB    | WB  |     |       | NB    |       |      | SB  |     |  |
|-----------------------|-------|-----|-----|-------|-------|-------|------|-----|-----|--|
| HCM Ctrl Dly, s/v     | 20.26 | 0   |     |       | 0.04  |       |      | 0   |     |  |
| HCM LOS               | C     | A   |     |       |       |       |      |     |     |  |
| Minor Lane/Major Mvmt | NBL   | NBT | NBR | EBLn1 | WBLn1 | WBLn2 | SBL  | SBT | SBR |  |
| Capacity (veh/h)      | 8     | -   | -   | 247   | -     | -     | 1020 | -   | -   |  |
| HCM Lane V/C Ratio    | 0.002 | -   | -   | 0.044 | -     | -     | -    | -   | -   |  |
| HCM Ctrl Dly (s/v)    | 8.9   | 0   | -   | 20.3  | 0     | 0     | 0    | -   | -   |  |
| HCM Lane LOS          | A     | A   | -   | C     | A     | A     | A    | -   | -   |  |
| HCM 95th %tile Q(veh) | 0     | -   | -   | 0.1   | -     | -     | 0    | -   | -   |  |

## Timings

1: SR 211 &amp; SR 347/Bayberry Dr

06/03/2025

| Lane Group             | EBL   | EBT   | EBR   | WBL   | WBT   | NBL   | NBT   | SBL   | SBT   | SBR   |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations    | ↑     | ↑     | ↑     | ↑     | ↑     | ↑     | ↑     | ↑     | ↑     | ↑     |
| Traffic Volume (vph)   | 311   | 131   | 554   | 46    | 89    | 365   | 455   | 27    | 434   | 248   |
| Future Volume (vph)    | 311   | 131   | 554   | 46    | 89    | 365   | 455   | 27    | 434   | 248   |
| Turn Type              | pm+pt | NA    | Perm  | Perm  | NA    | Prot  | NA    | Prot  | NA    | Perm  |
| Protected Phases       | 3     | 8     |       |       | 4     | 1     | 6     | 5     | 2     |       |
| Permitted Phases       | 8     |       | 8     | 4     |       |       |       |       | 2     |       |
| Detector Phase         | 3     | 8     | 8     | 4     | 4     | 1     | 6     | 5     | 2     | 2     |
| Switch Phase           |       |       |       |       |       |       |       |       |       |       |
| Minimum Initial (s)    | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   |
| Minimum Split (s)      | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  |
| Total Split (s)        | 20.0  | 40.0  | 40.0  | 20.0  | 20.0  | 45.0  | 80.0  | 20.0  | 55.0  | 55.0  |
| Total Split (%)        | 14.3% | 28.6% | 28.6% | 14.3% | 14.3% | 32.1% | 57.1% | 14.3% | 39.3% | 39.3% |
| Yellow Time (s)        | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)       | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| Lost Time Adjust (s)   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Lost Time (s)    | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   |
| Lead/Lag               | Lead  |       |       | Lag   | Lag   | Lead  | Lag   | Lead  | Lag   | Lag   |
| Lead-Lag Optimize?     | Yes   |       |       | Yes   |
| Recall Mode            | None  | None  | None  | None  | None  | None  | C-Max | None  | C-Max | C-Max |
| Act Effect Green (s)   | 32.8  | 32.8  | 32.8  | 12.8  | 12.8  | 22.8  | 86.3  | 7.8   | 66.4  | 66.4  |
| Actuated g/C Ratio     | 0.23  | 0.23  | 0.23  | 0.09  | 0.09  | 0.16  | 0.62  | 0.06  | 0.47  | 0.47  |
| v/c Ratio              | 1.33  | 0.32  | 0.77  | 0.44  | 0.75  | 0.76  | 0.48  | 0.29  | 0.55  | 0.31  |
| Control Delay (s/veh)  | 214.8 | 46.4  | 13.1  | 72.2  | 82.9  | 65.4  | 17.9  | 70.1  | 30.4  | 3.6   |
| Queue Delay            | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Delay (s/veh)    | 214.8 | 46.4  | 13.1  | 72.2  | 82.9  | 65.4  | 17.9  | 70.1  | 30.4  | 3.6   |
| LOS                    | F     | D     | B     | E     | F     | E     | B     | E     | C     | A     |
| Approach Delay (s/veh) | 80.5  |       |       |       | 79.9  |       | 38.7  |       | 22.5  |       |
| Approach LOS           | F     |       |       |       | E     |       | D     |       | C     |       |

## Intersection Summary

Cycle Length: 140

Actuated Cycle Length: 140

Offset: 0 (0%), Referenced to phase 2:SBT and 6:NBT, Start of Green

Natural Cycle: 80

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 1.33

Intersection Signal Delay (s/veh): 51.9

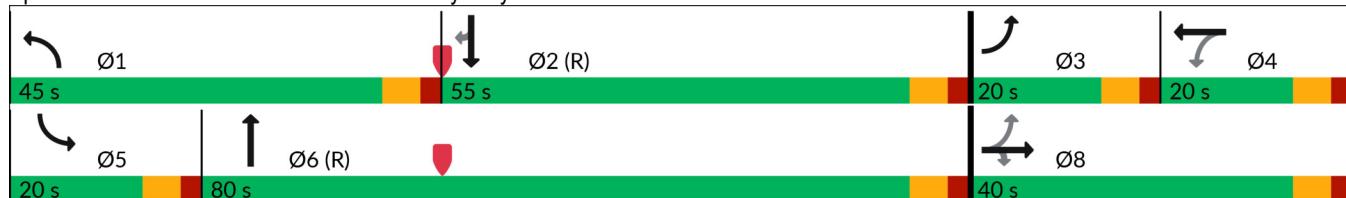
Intersection LOS: D

Intersection Capacity Utilization 76.8%

ICU Level of Service D

Analysis Period (min) 15

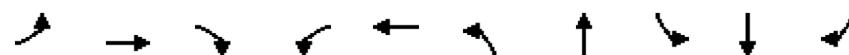
Splits and Phases: 1: SR 211 &amp; SR 347/Bayberry Dr



## Queues

1: SR 211 &amp; SR 347/Bayberry Dr

06/03/2025



| Lane Group              | EBL   | EBT  | EBR  | WBL  | WBT  | NBL  | NBT  | SBL  | SBT  | SBR  |
|-------------------------|-------|------|------|------|------|------|------|------|------|------|
| Lane Group Flow (vph)   | 331   | 139  | 589  | 51   | 128  | 415  | 534  | 29   | 472  | 270  |
| v/c Ratio               | 1.33  | 0.32 | 0.77 | 0.44 | 0.75 | 0.76 | 0.48 | 0.29 | 0.55 | 0.31 |
| Control Delay (s/veh)   | 214.8 | 46.4 | 13.1 | 72.2 | 82.9 | 65.4 | 17.9 | 70.1 | 30.4 | 3.6  |
| Queue Delay             | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Total Delay (s/veh)     | 214.8 | 46.4 | 13.1 | 72.2 | 82.9 | 65.4 | 17.9 | 70.1 | 30.4 | 3.6  |
| Queue Length 50th (ft)  | ~306  | 104  | 28   | 44   | 106  | 188  | 281  | 26   | 305  | 0    |
| Queue Length 95th (ft)  | #501  | 167  | 176  | 90   | #193 | 230  | 386  | 60   | 449  | 53   |
| Internal Link Dist (ft) |       | 1881 |      |      | 827  |      | 1407 |      | 3359 |      |
| Turn Bay Length (ft)    |       |      |      |      |      | 400  |      | 255  |      | 460  |
| Base Capacity (vph)     | 248   | 448  | 769  | 126  | 187  | 929  | 1117 | 180  | 858  | 871  |
| Starvation Cap Reductn  | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Spillback Cap Reductn   | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Storage Cap Reductn     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Reduced v/c Ratio       | 1.33  | 0.31 | 0.77 | 0.40 | 0.68 | 0.45 | 0.48 | 0.16 | 0.55 | 0.31 |

## Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.  
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.  
Queue shown is maximum after two cycles.

## HCM 7th Signalized Intersection Summary

1: SR 211 &amp; SR 347/Bayberry Dr

06/03/2025

| Movement  | EBL   | EBT   | EBR   | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|---|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| Lane Configurations   | ↑     | ↑     | ↑     | ↑    | ↑    | ↑    | ↑    | ↑    | ↑    | ↑    | ↑    | ↑    |
| Traffic Volume (veh/h)  | 311   | 131   | 554   | 46   | 89   | 27   | 365  | 455  | 15   | 27   | 434  | 248  |
| Future Volume (veh/h)   | 311   | 131   | 554   | 46   | 89   | 27   | 365  | 455  | 15   | 27   | 434  | 248  |
| Initial Q (Q <sub>b</sub> ), veh  | 0     | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Lane Width Adj.   | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT)   | 1.00  |       | 1.00  | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach   | No    |       | No    |      | No   |      | No   |      | No   |      | No   |      |
| Adj Sat Flow, veh/h/ln  | 1811  | 1856  | 1737  | 1900 | 1856 | 1900 | 1826 | 1841 | 1678 | 1900 | 1826 | 1826 |
| Adj Flow Rate, veh/h  | 331   | 139   | 589   | 51   | 98   | 30   | 415  | 517  | 0    | 29   | 472  | 0    |
| Peak Hour Factor  | 0.94  | 0.94  | 0.94  | 0.91 | 0.91 | 0.91 | 0.88 | 0.88 | 0.88 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %  | 6     | 3     | 11    | 0    | 3    | 0    | 5    | 4    | 15   | 0    | 5    | 5    |
| Cap, veh/h  | 261   | 451   | 357   | 125  | 136  | 42   | 486  | 1119 |      | 37   | 885  |      |
| Arrive On Green   | 0.10  | 0.24  | 0.24  | 0.10 | 0.10 | 0.10 | 0.14 | 0.61 | 0.00 | 0.02 | 0.48 | 0.00 |
| Sat Flow, veh/h   | 1725  | 1856  | 1472  | 738  | 1363 | 417  | 3374 | 1841 | 0    | 1810 | 1826 | 1547 |
| Grp Volume(v), veh/h  | 331   | 139   | 589   | 51   | 0    | 128  | 415  | 517  | 0    | 29   | 472  | 0    |
| Grp Sat Flow(s), veh/h/ln   | 1725  | 1856  | 1472  | 738  | 0    | 1780 | 1687 | 1841 | 0    | 1810 | 1826 | 1547 |
| Q Serve(g_s), s   | 14.0  | 8.6   | 34.0  | 9.3  | 0.0  | 9.8  | 16.8 | 21.4 | 0.0  | 2.2  | 25.2 | 0.0  |
| Cycle Q Clear(g_c), s   | 14.0  | 8.6   | 34.0  | 9.3  | 0.0  | 9.8  | 16.8 | 21.4 | 0.0  | 2.2  | 25.2 | 0.0  |
| Prop In Lane  | 1.00  |       | 1.00  | 1.00 |      | 0.23 | 1.00 |      | 0.00 | 1.00 |      | 1.00 |
| Lane Grp Cap(c), veh/h  | 261   | 451   | 357   | 125  | 0    | 178  | 486  | 1119 |      | 37   | 885  |      |
| V/C Ratio(X)  | 1.27  | 0.31  | 1.65  | 0.41 | 0.00 | 0.72 | 0.85 | 0.46 |      | 0.78 | 0.53 |      |
| Avail Cap(c_a), veh/h   | 261   | 451   | 357   | 125  | 0    | 178  | 940  | 1119 |      | 181  | 885  |      |
| HCM Platoon Ratio   | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)  | 1.00  | 1.00  | 1.00  | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh  | 54.5  | 43.4  | 53.0  | 60.9 | 0.0  | 61.1 | 58.5 | 15.0 | 0.0  | 68.2 | 25.1 | 0.0  |
| Incr Delay (d2), s/veh  | 147.5 | 0.4   | 303.7 | 2.1  | 0.0  | 13.1 | 4.4  | 1.4  | 0.0  | 28.8 | 2.3  | 0.0  |
| Initial Q Delay(d3), s/veh  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln   | 13.2  | 3.9   | 42.4  | 1.8  | 0.0  | 5.1  | 7.3  | 8.8  | 0.0  | 1.3  | 11.1 | 0.0  |
| Unsig. Movement Delay, s/veh  |       |       |       |      |      |      |      |      |      |      |      |      |
| LnGrp Delay(d), s/veh   | 202.0 | 43.8  | 356.7 | 63.0 | 0.0  | 74.2 | 62.9 | 16.3 | 0.0  | 97.0 | 27.4 | 0.0  |
| LnGrp LOS   | F     | D     | F     | E    |      | E    | E    | B    |      | F    | C    |      |
| Approach Vol, veh/h   |       | 1059  |       |      |      | 179  |      |      | 932  |      | 501  |      |
| Approach Delay, s/veh   |       | 267.3 |       |      |      | 71.0 |      |      | 37.0 |      | 31.4 |      |
| Approach LOS  |       | F     |       |      |      | E    |      |      | D    |      | C    |      |
| Timer - Assigned Phs  | 1     | 2     | 3     | 4    | 5    | 6    |      |      | 8    |      |      |      |
| Phs Duration (G+Y+Rc), s  | 26.2  | 73.8  | 20.0  | 20.0 | 8.9  | 91.1 |      |      | 40.0 |      |      |      |
| Change Period (Y+Rc), s   | 6.0   | 6.0   | 6.0   | 6.0  | 6.0  | 6.0  |      |      | 6.0  |      |      |      |
| Max Green Setting (Gmax), s   | 39.0  | 49.0  | 14.0  | 14.0 | 14.0 | 74.0 |      |      | 34.0 |      |      |      |
| Max Q Clear Time (g_c+l1), s  | 18.8  | 27.2  | 16.0  | 11.8 | 4.2  | 23.4 |      |      | 36.0 |      |      |      |
| Green Ext Time (p_c), s   | 1.4   | 2.6   | 0.0   | 0.2  | 0.0  | 3.3  |      |      | 0.0  |      |      |      |
| <b>Intersection Summary</b>   |       |       |       |      |      |      |      |      |      |      |      |      |
| HCM 7th Control Delay, s/veh  |       |       | 129.6 |      |      |      |      |      |      |      |      |      |
| HCM 7th LOS   |       |       | F     |      |      |      |      |      |      |      |      |      |
| <b>Notes</b>  |       |       |       |      |      |      |      |      |      |      |      |      |
| Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay. |       |       |       |      |      |      |      |      |      |      |      |      |

## Timings

2: SR 211 &amp; SR 53

06/03/2025



| Lane Group             | EBU   | EBT   | EBR   | WBU   | WBL   | WBT   | NBL   | NBR   |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations    | 2     | 2     | 2     | 1     | 1     | 2     | 2     | 2     |
| Traffic Volume (vph)   | 876   | 373   | 79    | 654   | 411   | 133   |       |       |
| Future Volume (vph)    | 876   | 373   | 79    | 654   | 411   | 133   |       |       |
| Turn Type              | Perm  | NA    | Perm  | Perm  | Perm  | NA    | Prot  | Perm  |
| Protected Phases       |       | 2     |       |       |       | 6     | 8     |       |
| Permitted Phases       | 2     |       | 2     | 6     | 6     |       | 8     |       |
| Detector Phase         | 2     | 2     | 2     | 6     | 6     | 6     | 8     | 8     |
| Switch Phase           |       |       |       |       |       |       |       |       |
| Minimum Initial (s)    | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |
| Minimum Split (s)      | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  |
| Total Split (s)        | 50.0  | 50.0  | 50.0  | 50.0  | 50.0  | 50.0  | 30.0  | 30.0  |
| Total Split (%)        | 62.5% | 62.5% | 62.5% | 62.5% | 62.5% | 62.5% | 37.5% | 37.5% |
| Yellow Time (s)        | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)       | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| Lost Time Adjust (s)   | 0.0   | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Lost Time (s)    | 6.0   | 6.0   | 6.0   |       | 6.0   | 6.0   | 6.0   | 6.0   |
| Lead/Lag               |       |       |       |       |       |       |       |       |
| Lead-Lag Optimize?     |       |       |       |       |       |       |       |       |
| Recall Mode            | Min   | Min   | Min   | Min   | Min   | Min   | None  | None  |
| Act Effect Green (s)   | 26.3  | 26.3  | 26.3  |       | 26.3  | 26.3  | 12.7  | 12.7  |
| Actuated g/C Ratio     | 0.51  | 0.51  | 0.51  |       | 0.51  | 0.51  | 0.25  | 0.25  |
| v/c Ratio              | 0.01  | 0.60  | 0.45  |       | 0.41  | 0.39  | 0.53  | 0.35  |
| Control Delay (s/veh)  | 6.5   | 10.6  | 2.5   |       | 15.2  | 8.5   | 20.9  | 11.7  |
| Queue Delay            | 0.0   | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Delay (s/veh)    | 6.5   | 10.6  | 2.5   |       | 15.2  | 8.5   | 20.9  | 11.7  |
| LOS                    | A     | B     | A     |       | B     | A     | C     | B     |
| Approach Delay (s/veh) |       | 8.2   |       |       |       | 9.2   | 18.6  |       |
| Approach LOS           |       | A     |       |       |       | A     | B     |       |

## Intersection Summary

Cycle Length: 80

Actuated Cycle Length: 51.7

Natural Cycle: 55

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.60

Intersection Signal Delay (s/veh): 10.6

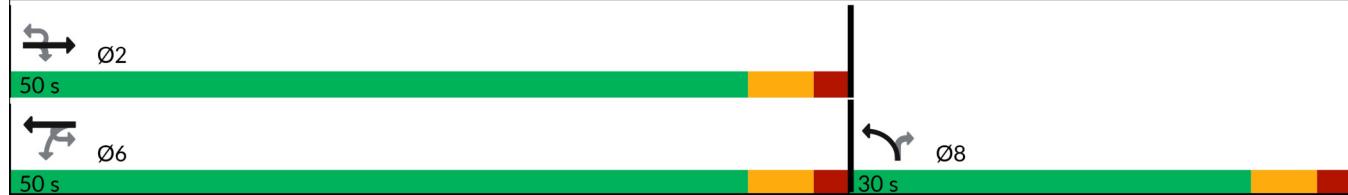
Intersection LOS: B

Intersection Capacity Utilization 55.4%

ICU Level of Service B

Analysis Period (min) 15

Splits and Phases: 2: SR 211 &amp; SR 53





| Lane Group              | EBU  | EBT  | EBR  | WBL  | WBT  | NBL  | NBR  |
|-------------------------|------|------|------|------|------|------|------|
| Lane Group Flow (vph)   | 2    | 1031 | 439  | 83   | 681  | 442  | 143  |
| v/c Ratio               | 0.01 | 0.60 | 0.45 | 0.41 | 0.39 | 0.53 | 0.35 |
| Control Delay (s/veh)   | 6.5  | 10.6 | 2.5  | 15.2 | 8.5  | 20.9 | 11.7 |
| Queue Delay             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Total Delay (s/veh)     | 6.5  | 10.6 | 2.5  | 15.2 | 8.5  | 20.9 | 11.7 |
| Queue Length 50th (ft)  | 0    | 97   | 0    | 13   | 55   | 56   | 12   |
| Queue Length 95th (ft)  | 3    | 172  | 27   | 52   | 111  | 129  | 62   |
| Internal Link Dist (ft) |      | 2207 |      |      | 2068 | 4517 |      |
| Turn Bay Length (ft)    | 290  |      | 180  | 190  |      | 260  | 860  |
| Base Capacity (vph)     | 633  | 2876 | 1351 | 343  | 2903 | 1674 | 720  |
| Starvation Cap Reductn  | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Spillback Cap Reductn   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Storage Cap Reductn     | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Reduced v/c Ratio       | 0.00 | 0.36 | 0.32 | 0.24 | 0.23 | 0.26 | 0.20 |

#### Intersection Summary

## HCM 7th Signalized Intersection Summary

2: SR 211 &amp; SR 53

06/03/2025



| Movement                                   | EBU  | EBT  | EBR  | WBU  | WBL  | WBT  | NBL  | NBR  |
|--|------|------|------|------|------|------|------|------|
| Lane Configurations                        | 0    | ↑↑   | ↑    |      | ↑    | ↑↑   | ↑↑   | ↑    |
| Traffic Volume (veh/h)                     | 2    | 876  | 373  | 1    | 79   | 654  | 411  | 133  |
| Future Volume (veh/h)                      | 2    | 876  | 373  | 1    | 79   | 654  | 411  | 133  |
| Initial Q (Q <sub>b</sub> ), veh           | 0    | 0    |      | 0    | 0    | 0    | 0    | 0    |
| Lane Width Adj.                            | 1.00 | 1.00 |      | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT)                        |      | 1.00 |      | 1.00 |      | 1.00 | 1.00 |      |
| Parking Bus, Adj                           | 1.00 | 1.00 |      | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach                      | No   |      |      | No   | No   |      |      |      |
| Adj Sat Flow, veh/h/ln                     | 1796 | 1796 |      | 1781 | 1811 | 1856 | 1633 |      |
| Adj Flow Rate, veh/h                       | 1031 | 439  |      | 82   | 681  | 442  | 143  |      |
| Peak Hour Factor                           | 0.85 | 0.85 |      | 0.96 | 0.96 | 0.93 | 0.93 |      |
| Percent Heavy Veh, %                       | 7    | 7    |      | 8    | 6    | 3    | 18   |      |
| Cap, veh/h                                 | 1902 | 848  |      | 273  | 1918 | 677  | 273  |      |
| Arrive On Green                            | 0.56 | 0.56 |      | 0.56 | 0.56 | 0.20 | 0.20 |      |
| Sat Flow, veh/h                            | 3503 | 1522 |      | 343  | 3532 | 3428 | 1384 |      |
| Grp Volume(v), veh/h                       | 1031 | 439  |      | 82   | 681  | 442  | 143  |      |
| Grp Sat Flow(s), veh/h/ln                  | 1706 | 1522 |      | 343  | 1721 | 1714 | 1384 |      |
| Q Serve(g_s), s                            | 9.4  | 8.8  |      | 9.7  | 5.3  | 5.8  | 4.5  |      |
| Cycle Q Clear(g_c), s                      | 9.4  | 8.8  |      | 19.1 | 5.3  | 5.8  | 4.5  |      |
| Prop In Lane                               | 1.00 |      | 1.00 |      | 1.00 | 1.00 | 1.00 |      |
| Lane Grp Cap(c), veh/h                     | 1902 | 848  |      | 273  | 1918 | 677  | 273  |      |
| V/C Ratio(X)                               | 0.54 | 0.52 |      | 0.30 | 0.36 | 0.65 | 0.52 |      |
| Avail Cap(c_a), veh/h                      | 3069 | 1369 |      | 390  | 3095 | 1682 | 679  |      |
| HCM Platoon Ratio                          | 1.00 | 1.00 |      | 1.00 | 1.00 | 1.00 | 1.00 |      |
| Upstream Filter(l)                         | 1.00 | 1.00 |      | 1.00 | 1.00 | 1.00 | 1.00 |      |
| Uniform Delay (d), s/veh                   | 6.9  | 6.7  |      | 12.9 | 6.0  | 18.1 | 17.6 |      |
| Incr Delay (d2), s/veh                     | 0.2  | 0.5  |      | 0.6  | 0.1  | 1.1  | 1.6  |      |
| Initial Q Delay(d3), s/veh                 | 0.0  | 0.0  |      | 0.0  | 0.0  | 0.0  | 0.0  |      |
| %ile BackOfQ(50%), veh/ln                  | 1.9  | 1.6  |      | 0.6  | 1.1  | 2.0  | 1.3  |      |
| Unsig. Movement Delay, s/veh               |      |      |      |      |      |      |      |      |
| LnGrp Delay(d), s/veh                      | 7.1  | 7.2  |      | 13.5 | 6.1  | 19.2 | 19.1 |      |
| LnGrp LOS                                  | A    | A    |      | B    | A    | B    | B    |      |
| Approach Vol, veh/h                        | 1470 |      |      |      | 763  | 585  |      |      |
| Approach Delay, s/veh                      | 7.1  |      |      |      | 6.9  | 19.2 |      |      |
| Approach LOS                               | A    |      |      |      | A    | B    |      |      |
| Timer - Assigned Phs                       | 2    |      |      |      | 6    |      | 8    |      |
| Phs Duration (G+Y+R <sub>c</sub> ), s      | 33.3 |      |      |      | 33.3 |      | 15.7 |      |
| Change Period (Y+R <sub>c</sub> ), s       | 6.0  |      |      |      | 6.0  |      | 6.0  |      |
| Max Green Setting (Gmax), s                | 44.0 |      |      |      | 44.0 |      | 24.0 |      |
| Max Q Clear Time (g_c+l1), s               | 11.4 |      |      |      | 21.1 |      | 7.8  |      |
| Green Ext Time (p_c), s                    | 10.3 |      |      |      | 6.1  |      | 1.9  |      |
| <b>Intersection Summary</b>                |      |      |      |      |      |      |      |      |
| HCM 7th Control Delay, s/veh               |      |      | 9.6  |      |      |      |      |      |
| HCM 7th LOS                                |      |      | A    |      |      |      |      |      |
| <b>Notes</b>                               |      |      |      |      |      |      |      |      |
| User approved ignoring U-Turning movement. |      |      |      |      |      |      |      |      |

## Intersection

Int Delay, s/veh 0.2

| Movement                 | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations      | ↔    |      |      | ↑    | ↑    |      | ↔    | ↔    |      | ↑    | ↑    |      |
| Traffic Vol, veh/h       | 4    | 0    | 4    | 0    | 0    | 0    | 5    | 547  | 0    | 0    | 420  | 5    |
| Future Vol, veh/h        | 4    | 0    | 4    | 0    | 0    | 0    | 5    | 547  | 0    | 0    | 420  | 5    |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized           | -    | -    | None |
| Storage Length           | -    | -    | -    | 0    | -    | -    | -    | -    | -    | -    | -    | 200  |
| Veh in Median Storage, # | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Grade, %                 | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Peak Hour Factor         | 92   | 92   | 92   | 92   | 92   | 92   | 92   | 83   | 83   | 92   | 92   | 92   |
| Heavy Vehicles, %        | 2    | 2    | 2    | 4    | 2    | 8    | 2    | 5    | 5    | 9    | 6    | 2    |
| Mvmt Flow                | 4    | 0    | 4    | 0    | 0    | 0    | 5    | 659  | 0    | 0    | 457  | 5    |

| Major/Minor          | Minor2 | Minor1 |       |       | Major1 |       |       | Major2 |   |       |   |   |
|----------------------|--------|--------|-------|-------|--------|-------|-------|--------|---|-------|---|---|
| Conflicting Flow All | 1126   | 1126   | 457   | 1126  | 1132   | 659   | 462   | 0      | 0 | 659   | 0 | 0 |
| Stage 1              | 457    | 457    | -     | 670   | 670    | -     | -     | -      | - | -     | - | - |
| Stage 2              | 670    | 670    | -     | 457   | 462    | -     | -     | -      | - | -     | - | - |
| Critical Hdwy        | 7.12   | 6.52   | 6.22  | 7.14  | 6.52   | 6.28  | 4.12  | -      | - | 4.19  | - | - |
| Critical Hdwy Stg 1  | 6.12   | 5.52   | -     | 6.14  | 5.52   | -     | -     | -      | - | -     | - | - |
| Critical Hdwy Stg 2  | 6.12   | 5.52   | -     | 6.14  | 5.52   | -     | -     | -      | - | -     | - | - |
| Follow-up Hdwy       | 3.518  | 4.018  | 3.318 | 3.536 | 4.018  | 3.372 | 2.218 | -      | - | 2.281 | - | - |
| Pot Cap-1 Maneuver   | 182    | 205    | 604   | 180   | 203    | 453   | 1099  | -      | - | 897   | - | - |
| Stage 1              | 584    | 568    | -     | 443   | 455    | -     | -     | -      | - | -     | - | - |
| Stage 2              | 447    | 455    | -     | 580   | 565    | -     | -     | -      | - | -     | - | - |
| Platoon blocked, %   |        |        |       |       |        |       |       | -      | - | -     | - | - |
| Mov Cap-1 Maneuver   | 180    | 203    | 604   | 178   | 202    | 453   | 1099  | -      | - | 897   | - | - |
| Mov Cap-2 Maneuver   | 180    | 203    | -     | 178   | 202    | -     | -     | -      | - | -     | - | - |
| Stage 1              | 584    | 568    | -     | 440   | 452    | -     | -     | -      | - | -     | - | - |
| Stage 2              | 443    | 452    | -     | 576   | 565    | -     | -     | -      | - | -     | - | - |

| Approach              | EB    | WB  |     |       | NB    |       |     | SB  |     |  |  |
|-----------------------|-------|-----|-----|-------|-------|-------|-----|-----|-----|--|--|
| HCM Ctrl Dly, s/v     | 18.37 | 0   |     |       | 0.07  |       |     | 0   |     |  |  |
| HCM LOS               | C     | A   |     |       |       |       |     |     |     |  |  |
| Minor Lane/Major Mvmt | NBL   | NBT | NBR | EBLn1 | WBLn1 | WBLn2 | SBL | SBT | SBR |  |  |
| Capacity (veh/h)      | 15    | -   | -   | 278   | -     | -     | 897 | -   | -   |  |  |
| HCM Lane V/C Ratio    | 0.005 | -   | -   | 0.031 | -     | -     | -   | -   | -   |  |  |
| HCM Ctrl Dly (s/v)    | 8.3   | 0   | -   | 18.4  | 0     | 0     | 0   | -   | -   |  |  |
| HCM Lane LOS          | A     | A   | -   | C     | A     | A     | A   | A   | -   |  |  |
| HCM 95th %tile Q(veh) | 0     | -   | -   | 0.1   | -     | -     | 0   | -   | -   |  |  |

## Timings

1: SR 211 &amp; SR 347/Bayberry Dr

06/03/2025

| Lane Group             | EBU    | EBL   | EBT   | EBR   | WBL   | WBT   | NBL   | NBT   | SBL   | SBT   | SBR   |
|------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations    |        |       |       |       |       |       |       |       |       |       |       |
| Traffic Volume (vph)   | 1      | 203   | 72    | 347   | 30    | 114   | 591   | 421   | 24    | 496   | 394   |
| Future Volume (vph)    | 1      | 203   | 72    | 347   | 30    | 114   | 591   | 421   | 24    | 496   | 394   |
| Turn Type              | custom | pm+pt | NA    | Perm  | Perm  | NA    | Prot  | NA    | Prot  | NA    | Perm  |
| Protected Phases       |        |       | 3     | 8     |       | 4     | 1     | 6     | 5     | 2     |       |
| Permitted Phases       | 3      | 8     |       | 8     | 4     |       | 1     | 6     | 5     | 2     | 2     |
| Detector Phase         | 3      | 3     | 8     | 8     | 4     | 4     | 1     | 6     | 5     | 2     | 2     |
| Switch Phase           |        |       |       |       |       |       |       |       |       |       |       |
| Minimum Initial (s)    | 4.0    | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   |
| Minimum Split (s)      | 10.0   | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  |
| Total Split (s)        | 20.0   | 20.0  | 40.0  | 40.0  | 20.0  | 20.0  | 45.0  | 80.0  | 20.0  | 55.0  | 55.0  |
| Total Split (%)        | 14.3%  | 14.3% | 28.6% | 28.6% | 14.3% | 14.3% | 32.1% | 57.1% | 14.3% | 39.3% | 39.3% |
| Yellow Time (s)        | 4.0    | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)       | 2.0    | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| Lost Time Adjust (s)   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Lost Time (s)    | 6.0    | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   |
| Lead/Lag               | Lead   | Lead  |       |       | Lag   | Lag   | Lead  | Lag   | Lead  | Lag   | Lag   |
| Lead-Lag Optimize?     | Yes    | Yes   |       |       | Yes   |
| Recall Mode            | None   | None  | None  | None  | None  | None  | None  | C-Max | None  | C-Max | C-Max |
| Act Effect Green (s)   | 34.0   | 34.0  | 34.0  | 14.0  | 14.0  | 33.2  | 85.2  | 7.5   | 54.8  | 54.8  |       |
| Actuated g/C Ratio     | 0.24   | 0.24  | 0.24  | 0.10  | 0.10  | 0.24  | 0.61  | 0.05  | 0.39  | 0.39  |       |
| v/c Ratio              | 0.96   | 0.17  | 0.58  | 0.25  | 0.92  | 0.85  | 0.45  | 0.27  | 0.76  | 0.54  |       |
| Control Delay (s/veh)  | 99.0   | 43.2  | 8.1   | 63.3  | 105.5 | 61.9  | 17.5  | 69.8  | 46.1  | 11.3  |       |
| Queue Delay            | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Delay (s/veh)    | 99.0   | 43.2  | 8.1   | 63.3  | 105.5 | 61.9  | 17.5  | 69.8  | 46.1  | 11.3  |       |
| LOS                    | F      | D     | A     | E     | F     | E     | B     | E     | D     | B     |       |
| Approach Delay (s/veh) |        |       | 42.0  |       |       | 98.7  |       | 43.0  |       | 31.7  |       |
| Approach LOS           |        |       | D     |       |       | F     |       | D     |       | C     |       |

## Intersection Summary

Cycle Length: 140

Actuated Cycle Length: 140

Offset: 0 (0%), Referenced to phase 2:SBT and 6:NBT, Start of Green

Natural Cycle: 90

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.96

Intersection Signal Delay (s/veh): 42.9

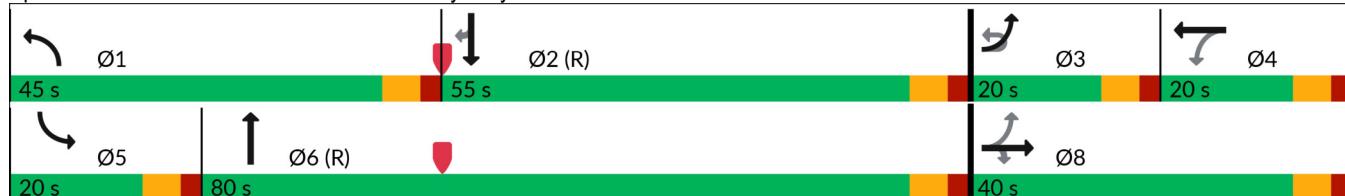
Intersection LOS: D

Intersection Capacity Utilization 82.9%

ICU Level of Service E

Analysis Period (min) 15

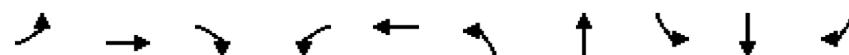
Splits and Phases: 1: SR 211 &amp; SR 347/Bayberry Dr



## Queues

1: SR 211 &amp; SR 347/Bayberry Dr

06/03/2025



| Lane Group              | EBL  | EBT  | EBR  | WBL  | WBT   | NBL  | NBT  | SBL  | SBT  | SBR  |
|-------------------------|------|------|------|------|-------|------|------|------|------|------|
| Lane Group Flow (vph)   | 217  | 77   | 369  | 33   | 173   | 672  | 495  | 26   | 539  | 428  |
| v/c Ratio               | 0.96 | 0.17 | 0.58 | 0.25 | 0.92  | 0.85 | 0.45 | 0.27 | 0.76 | 0.54 |
| Control Delay (s/veh)   | 99.0 | 43.2 | 8.1  | 63.3 | 105.5 | 61.9 | 17.5 | 69.8 | 46.1 | 11.3 |
| Queue Delay             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Total Delay (s/veh)     | 99.0 | 43.2 | 8.1  | 63.3 | 105.5 | 61.9 | 17.5 | 69.8 | 46.1 | 11.3 |
| Queue Length 50th (ft)  | 173  | 56   | 0    | 28   | 149   | 303  | 252  | 23   | 424  | 64   |
| Queue Length 95th (ft)  | #312 | 101  | 88   | 64   | #296  | 346  | 346  | 55   | #649 | 181  |
| Internal Link Dist (ft) |      | 1881 |      |      | 827   |      | 1407 |      | 3359 |      |
| Turn Bay Length (ft)    |      |      |      |      |       | 400  |      | 255  |      | 460  |
| Base Capacity (vph)     | 225  | 448  | 632  | 134  | 188   | 929  | 1103 | 180  | 708  | 797  |
| Starvation Cap Reductn  | 0    | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    |
| Spillback Cap Reductn   | 0    | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    |
| Storage Cap Reductn     | 0    | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    |
| Reduced v/c Ratio       | 0.96 | 0.17 | 0.58 | 0.25 | 0.92  | 0.72 | 0.45 | 0.14 | 0.76 | 0.54 |

## Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

## HCM 7th Signalized Intersection Summary

1: SR 211 &amp; SR 347/Bayberry Dr

06/03/2025

| Movement                         | EBU  | EBL  | EBT   | EBR  | WBL  | WBT   | WBR  | NBL  | NBT  | NBR   | SBL  | SBT  |
|----------------------------------|------|------|-------|------|------|-------|------|------|------|-------|------|------|
| Lane Configurations              |      |      |       |      |      |       |      |      |      |       |      |      |
| Traffic Volume (veh/h)           | 1    | 203  | 72    | 347  | 30   | 114   | 44   | 591  | 421  | 15    | 24   | 496  |
| Future Volume (veh/h)            | 1    | 203  | 72    | 347  | 30   | 114   | 44   | 591  | 421  | 15    | 24   | 496  |
| Initial Q (Q <sub>b</sub> ), veh | 0    | 0    | 0     | 0    | 0    | 0     | 0    | 0    | 0    | 0     | 0    | 0    |
| Lane Width Adj.                  | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT)              | 1.00 |      |       | 1.00 | 1.00 |       | 1.00 | 1.00 |      | 1.00  | 1.00 |      |
| Parking Bus, Adj                 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 |
| Work Zone On Approach            | No   |      |       | No   |      |       | No   |      | No   |       | No   |      |
| Adj Sat Flow, veh/h/ln           | 1811 | 1856 | 1737  | 1900 | 1856 | 1900  | 1826 | 1841 | 1678 | 1900  | 1826 |      |
| Adj Flow Rate, veh/h             | 216  | 77   | 369   | 33   | 125  | 48    | 672  | 478  | 0    | 26    | 539  |      |
| Peak Hour Factor                 | 0.94 | 0.94 | 0.94  | 0.91 | 0.91 | 0.91  | 0.88 | 0.88 | 0.88 | 0.92  | 0.92 |      |
| Percent Heavy Veh, %             | 6    | 3    | 11    | 0    | 3    | 0     | 5    | 4    | 15   | 0     | 5    |      |
| Cap, veh/h                       | 227  | 451  | 357   | 147  | 128  | 49    | 747  | 1123 |      | 33    | 744  |      |
| Arrive On Green                  | 0.10 | 0.24 | 0.24  | 0.10 | 0.10 | 0.10  | 0.22 | 0.61 | 0.00 | 0.02  | 0.41 |      |
| Sat Flow, veh/h                  | 1725 | 1856 | 1472  | 959  | 1277 | 490   | 3374 | 1841 | 0    | 1810  | 1826 |      |
| Grp Volume(v), veh/h             | 216  | 77   | 369   | 33   | 0    | 173   | 672  | 478  | 0    | 26    | 539  |      |
| Grp Sat Flow(s), veh/h/ln        | 1725 | 1856 | 1472  | 959  | 0    | 1767  | 1687 | 1841 | 0    | 1810  | 1826 |      |
| Q Serve(g_s), s                  | 14.0 | 4.6  | 34.0  | 4.5  | 0.0  | 13.7  | 27.1 | 19.1 | 0.0  | 2.0   | 34.8 |      |
| Cycle Q Clear(g_c), s            | 14.0 | 4.6  | 34.0  | 4.5  | 0.0  | 13.7  | 27.1 | 19.1 | 0.0  | 2.0   | 34.8 |      |
| Prop In Lane                     | 1.00 |      |       | 1.00 |      | 0.28  | 1.00 |      | 0.00 | 1.00  |      |      |
| Lane Grp Cap(c), veh/h           | 227  | 451  | 357   | 147  | 0    | 177   | 747  | 1123 |      | 33    | 744  |      |
| V/C Ratio(X)                     | 0.95 | 0.17 | 1.03  | 0.22 | 0.00 | 0.98  | 0.90 | 0.43 |      | 0.79  | 0.72 |      |
| Avail Cap(c_a), veh/h            | 227  | 451  | 357   | 147  | 0    | 177   | 940  | 1123 |      | 181   | 744  |      |
| HCM Platoon Ratio                | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 |      |
| Upstream Filter(l)               | 1.00 | 1.00 | 1.00  | 1.00 | 0.00 | 1.00  | 1.00 | 1.00 | 0.00 | 1.00  | 1.00 |      |
| Uniform Delay (d), s/veh         | 51.6 | 41.9 | 53.0  | 58.7 | 0.0  | 62.9  | 53.0 | 14.4 | 0.0  | 68.4  | 34.9 |      |
| Incr Delay (d2), s/veh           | 46.6 | 0.2  | 56.1  | 0.8  | 0.0  | 61.3  | 9.9  | 1.2  | 0.0  | 32.4  | 6.1  |      |
| Initial Q Delay(d3), s/veh       | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |      |
| %ile BackOfQ(50%), veh/ln        | 9.6  | 2.1  | 17.8  | 1.1  | 0.0  | 9.2   | 12.2 | 7.9  | 0.0  | 1.2   | 16.2 |      |
| Unsig. Movement Delay, s/veh     |      |      |       |      |      |       |      |      |      |       |      |      |
| LnGrp Delay(d), s/veh            | 98.2 | 42.0 | 109.1 | 59.5 | 0.0  | 124.1 | 62.9 | 15.5 | 0.0  | 100.9 | 41.0 |      |
| LnGrp LOS                        | F    | D    | F     | E    |      | F     | E    | B    |      | F     | D    |      |
| Approach Vol, veh/h              |      |      |       |      |      | 206   |      |      | 1150 |       | 565  |      |
| Approach Delay, s/veh            |      |      |       |      |      | 113.8 |      |      | 43.2 |       | 43.7 |      |
| Approach LOS                     |      |      |       |      |      | F     |      |      | D    |       | D    |      |
| Timer - Assigned Phs             | 1    | 2    | 3     | 4    | 5    | 6     |      | 8    |      |       |      |      |
| Phs Duration (G+Y+Rc), s         | 37.0 | 63.0 | 20.0  | 20.0 | 8.6  | 91.4  |      | 40.0 |      |       |      |      |
| Change Period (Y+Rc), s          | 6.0  | 6.0  | 6.0   | 6.0  | 6.0  | 6.0   |      | 6.0  |      |       |      |      |
| Max Green Setting (Gmax), s      | 39.0 | 49.0 | 14.0  | 14.0 | 14.0 | 74.0  |      | 34.0 |      |       |      |      |
| Max Q Clear Time (g_c+l1), s     | 29.1 | 36.8 | 16.0  | 15.7 | 4.0  | 21.1  |      | 36.0 |      |       |      |      |
| Green Ext Time (p_c), s          | 1.9  | 2.5  | 0.0   | 0.0  | 0.0  | 3.0   |      | 0.0  |      |       |      |      |

## Intersection Summary

HCM 7th Control Delay, s/veh

62.9

HCM 7th LOS

E

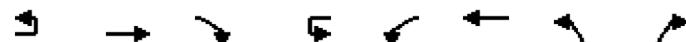
## Notes

User approved ignoring U-Turning movement.

Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.



| Movement                         | SBR  |
|----------------------------------|------|
| Lane Configurations              | 1    |
| Traffic Volume (veh/h)           | 394  |
| Future Volume (veh/h)            | 394  |
| Initial Q (Q <sub>b</sub> ), veh | 0    |
| Lane Width Adj.                  | 1.00 |
| Ped-Bike Adj(A_pbT)              | 1.00 |
| Parking Bus, Adj                 | 1.00 |
| Work Zone On Approach            |      |
| Adj Sat Flow, veh/h/ln           | 1826 |
| Adj Flow Rate, veh/h             | 0    |
| Peak Hour Factor                 | 0.92 |
| Percent Heavy Veh, %             | 5    |
| Cap, veh/h                       |      |
| Arrive On Green                  | 0.00 |
| Sat Flow, veh/h                  | 1547 |
| Grp Volume(v), veh/h             | 0    |
| Grp Sat Flow(s), veh/h/ln        | 1547 |
| Q Serve(g_s), s                  | 0.0  |
| Cycle Q Clear(g_c), s            | 0.0  |
| Prop In Lane                     | 1.00 |
| Lane Grp Cap(c), veh/h           |      |
| V/C Ratio(X)                     |      |
| Avail Cap(c_a), veh/h            |      |
| HCM Platoon Ratio                | 1.00 |
| Upstream Filter(l)               | 0.00 |
| Uniform Delay (d), s/veh         | 0.0  |
| Incr Delay (d2), s/veh           | 0.0  |
| Initial Q Delay(d3), s/veh       | 0.0  |
| %ile BackOfQ(50%), veh/ln        | 0.0  |
| Unsig. Movement Delay, s/veh     |      |
| LnGrp Delay(d), s/veh            | 0.0  |
| LnGrp LOS                        |      |
| Approach Vol, veh/h              |      |
| Approach Delay, s/veh            |      |
| Approach LOS                     |      |
| Timer - Assigned Phs             |      |



| Lane Group             | EBU   | EBT   | EBR   | WBU   | WBL   | WBT   | NBL   | NBR   |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations    | 2     | 483   | 437   | 1     | 154   | 1006  | 456   | 57    |
| Traffic Volume (vph)   | 2     | 483   | 437   | 1     | 154   | 1006  | 456   | 57    |
| Future Volume (vph)    | 2     | 483   | 437   | 1     | 154   | 1006  | 456   | 57    |
| Turn Type              | Perm  | NA    | Perm  | Perm  | Perm  | NA    | Prot  | Perm  |
| Protected Phases       |       | 2     |       |       |       | 6     | 8     |       |
| Permitted Phases       | 2     |       | 2     | 6     | 6     |       | 8     |       |
| Detector Phase         | 2     | 2     | 2     | 6     | 6     | 6     | 8     | 8     |
| Switch Phase           |       |       |       |       |       |       |       |       |
| Minimum Initial (s)    | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |
| Minimum Split (s)      | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  |
| Total Split (s)        | 50.0  | 50.0  | 50.0  | 50.0  | 50.0  | 50.0  | 30.0  | 30.0  |
| Total Split (%)        | 62.5% | 62.5% | 62.5% | 62.5% | 62.5% | 62.5% | 37.5% | 37.5% |
| Yellow Time (s)        | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)       | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| Lost Time Adjust (s)   | 0.0   | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Lost Time (s)    | 6.0   | 6.0   | 6.0   |       | 6.0   | 6.0   | 6.0   | 6.0   |
| Lead/Lag               |       |       |       |       |       |       |       |       |
| Lead-Lag Optimize?     |       |       |       |       |       |       |       |       |
| Recall Mode            | Min   | Min   | Min   | Min   | Min   | Min   | None  | None  |
| Act Effect Green (s)   | 24.1  | 24.1  | 24.1  |       | 24.1  | 24.1  | 13.1  | 13.1  |
| Actuated g/C Ratio     | 0.48  | 0.48  | 0.48  |       | 0.48  | 0.48  | 0.26  | 0.26  |
| v/c Ratio              | 0.01  | 0.35  | 0.52  |       | 0.43  | 0.64  | 0.55  | 0.15  |
| Control Delay (s/veh)  | 7.5   | 8.7   | 3.0   |       | 13.0  | 11.6  | 19.5  | 6.6   |
| Queue Delay            | 0.0   | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Delay (s/veh)    | 7.5   | 8.7   | 3.0   |       | 13.0  | 11.6  | 19.5  | 6.6   |
| LOS                    | A     | A     | A     |       | B     | B     | B     | A     |
| Approach Delay (s/veh) |       | 6.0   |       |       |       | 11.8  | 18.1  |       |
| Approach LOS           |       | A     |       |       |       | B     | B     |       |

## Intersection Summary

Cycle Length: 80

Actuated Cycle Length: 49.8

Natural Cycle: 50

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.64

Intersection Signal Delay (s/veh): 10.8

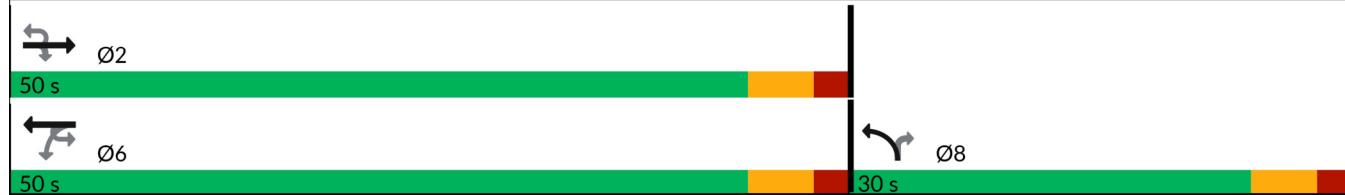
Intersection LOS: B

Intersection Capacity Utilization 60.0%

ICU Level of Service B

Analysis Period (min) 15

Splits and Phases: 2: SR 211 &amp; SR 53





| Lane Group              | EBU  | EBT  | EBR  | WBL  | WBT  | NBL  | NBR  |
|-------------------------|------|------|------|------|------|------|------|
| Lane Group Flow (vph)   | 2    | 568  | 514  | 161  | 1048 | 490  | 61   |
| v/c Ratio               | 0.01 | 0.35 | 0.52 | 0.43 | 0.64 | 0.55 | 0.15 |
| Control Delay (s/veh)   | 7.5  | 8.7  | 3.0  | 13.0 | 11.6 | 19.5 | 6.6  |
| Queue Delay             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Total Delay (s/veh)     | 7.5  | 8.7  | 3.0  | 13.0 | 11.6 | 19.5 | 6.6  |
| Queue Length 50th (ft)  | 0    | 46   | 0    | 26   | 102  | 60   | 0    |
| Queue Length 95th (ft)  | 3    | 86   | 30   | 79   | 195  | 130  | 25   |
| Internal Link Dist (ft) | 2207 |      |      | 2068 | 4517 |      |      |
| Turn Bay Length (ft)    | 290  |      | 180  | 190  |      | 260  | 860  |
| Base Capacity (vph)     | 357  | 2940 | 1381 | 673  | 2968 | 1725 | 724  |
| Starvation Cap Reductn  | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Spillback Cap Reductn   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Storage Cap Reductn     | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Reduced v/c Ratio       | 0.01 | 0.19 | 0.37 | 0.24 | 0.35 | 0.28 | 0.08 |

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#### Intersection Summary

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## HCM 7th Signalized Intersection Summary

2: SR 211 &amp; SR 53

06/03/2025



| Movement                                   | EBU | EBT  | EBR  | WBU  | WBL  | WBT  | NBL  | NBR  |
|--|-----|------|------|------|------|------|------|------|
| Lane Configurations                        | ↑   | ↑↑   | ↑    |      | ↑    | ↑↑   | ↑↑   | ↑    |
| Traffic Volume (veh/h)                     | 2   | 483  | 437  | 1    | 154  | 1006 | 456  | 57   |
| Future Volume (veh/h)                      | 2   | 483  | 437  | 1    | 154  | 1006 | 456  | 57   |
| Initial Q (Q <sub>b</sub> ), veh           |     | 0    | 0    |      | 0    | 0    | 0    | 0    |
| Lane Width Adj.                            |     | 1.00 | 1.00 |      | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT)                        |     |      |      | 1.00 | 1.00 |      | 1.00 | 1.00 |
| Parking Bus, Adj                           |     | 1.00 | 1.00 |      | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach                      |     | No   |      |      | No   | No   | No   | No   |
| Adj Sat Flow, veh/h/ln                     |     | 1796 | 1796 |      | 1781 | 1811 | 1856 | 1633 |
| Adj Flow Rate, veh/h                       |     | 568  | 514  |      | 160  | 1048 | 490  | 61   |
| Peak Hour Factor                           |     | 0.85 | 0.85 |      | 0.96 | 0.96 | 0.93 | 0.93 |
| Percent Heavy Veh, %                       |     | 7    | 7    |      | 8    | 6    | 3    | 18   |
| Cap, veh/h                                 |     | 1928 | 860  |      | 376  | 1944 | 700  | 283  |
| Arrive On Green                            |     | 0.57 | 0.57 |      | 0.57 | 0.57 | 0.20 | 0.20 |
| Sat Flow, veh/h                            |     | 3503 | 1522 |      | 497  | 3532 | 3428 | 1384 |
| Grp Volume(v), veh/h                       |     | 568  | 514  |      | 160  | 1048 | 490  | 61   |
| Grp Sat Flow(s), veh/h/ln                  |     | 1706 | 1522 |      | 497  | 1721 | 1714 | 1384 |
| Q Serve(g_s), s                            |     | 4.5  | 11.5 |      | 12.9 | 9.9  | 6.9  | 1.9  |
| Cycle Q Clear(g_c), s                      |     | 4.5  | 11.5 |      | 17.4 | 9.9  | 6.9  | 1.9  |
| Prop In Lane                               |     |      | 1.00 |      | 1.00 | 1.00 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h                     |     | 1928 | 860  |      | 376  | 1944 | 700  | 283  |
| V/C Ratio(X)                               |     | 0.29 | 0.60 |      | 0.43 | 0.54 | 0.70 | 0.22 |
| Avail Cap(c_a), veh/h                      |     | 2888 | 1288 |      | 516  | 2912 | 1583 | 639  |
| HCM Platoon Ratio                          |     | 1.00 | 1.00 |      | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)                         |     | 1.00 | 1.00 |      | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh                   |     | 5.9  | 7.4  |      | 10.4 | 7.1  | 19.2 | 17.2 |
| Incr Delay (d2), s/veh                     |     | 0.1  | 0.7  |      | 0.8  | 0.2  | 1.3  | 0.4  |
| Initial Q Delay(d3), s/veh                 |     | 0.0  | 0.0  |      | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln                  |     | 1.0  | 2.3  |      | 1.0  | 2.1  | 2.4  | 0.5  |
| Unsig. Movement Delay, s/veh               |     |      |      |      |      |      |      |      |
| LnGrp Delay(d), s/veh                      |     | 6.0  | 8.1  |      | 11.2 | 7.3  | 20.5 | 17.6 |
| LnGrp LOS                                  |     | A    | A    |      | B    | A    | C    | B    |
| Approach Vol, veh/h                        |     | 1082 |      |      | 1208 | 551  |      |      |
| Approach Delay, s/veh                      |     | 7.0  |      |      | 7.8  | 20.2 |      |      |
| Approach LOS                               |     | A    |      |      | A    | C    |      |      |
| Timer - Assigned Phs                       |     | 2    |      |      | 6    |      | 8    |      |
| Phs Duration (G+Y+R <sub>c</sub> ), s      |     | 35.4 |      |      | 35.4 |      | 16.6 |      |
| Change Period (Y+R <sub>c</sub> ), s       |     | 6.0  |      |      | 6.0  |      | 6.0  |      |
| Max Green Setting (Gmax), s                |     | 44.0 |      |      | 44.0 |      | 24.0 |      |
| Max Q Clear Time (g_c+l1), s               |     | 13.5 |      |      | 19.4 |      | 8.9  |      |
| Green Ext Time (p_c), s                    |     | 6.0  |      |      | 10.0 |      | 1.7  |      |
| <b>Intersection Summary</b>                |     |      |      |      |      |      |      |      |
| HCM 7th Control Delay, s/veh               |     |      | 9.9  |      |      |      |      |      |
| HCM 7th LOS                                |     |      | A    |      |      |      |      |      |
| <b>Notes</b>                               |     |      |      |      |      |      |      |      |
| User approved ignoring U-Turning movement. |     |      |      |      |      |      |      |      |

## Intersection

Int Delay, s/veh 0.2

| Movement                 | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations      | ↔    |      |      | ↑    | ↑    |      | ↔    | ↔    |      | ↑    | ↑    |      |
| Traffic Vol, veh/h       | 5    | 0    | 5    | 0    | 0    | 0    | 2    | 476  | 0    | 0    | 683  | 2    |
| Future Vol, veh/h        | 5    | 0    | 5    | 0    | 0    | 0    | 2    | 476  | 0    | 0    | 683  | 2    |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized           | -    | -    | None |
| Storage Length           | -    | -    | -    | 0    | -    | -    | -    | -    | -    | -    | -    | 200  |
| Veh in Median Storage, # | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Grade, %                 | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Peak Hour Factor         | 92   | 92   | 92   | 92   | 92   | 92   | 92   | 83   | 83   | 92   | 92   | 92   |
| Heavy Vehicles, %        | 2    | 2    | 2    | 4    | 2    | 8    | 2    | 5    | 5    | 9    | 6    | 2    |
| Mvmt Flow                | 5    | 0    | 5    | 0    | 0    | 0    | 2    | 573  | 0    | 0    | 742  | 2    |

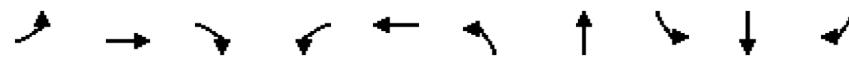
| Major/Minor          | Minor2 | Minor1 |       |       | Major1 |       |       | Major2 |   |       |   |   |
|----------------------|--------|--------|-------|-------|--------|-------|-------|--------|---|-------|---|---|
| Conflicting Flow All | 1320   | 1320   | 742   | 1320  | 1322   | 573   | 745   | 0      | 0 | 573   | 0 | 0 |
| Stage 1              | 742    | 742    | -     | 578   | 578    | -     | -     | -      | - | -     | - | - |
| Stage 2              | 578    | 578    | -     | 742   | 745    | -     | -     | -      | - | -     | - | - |
| Critical Hdwy        | 7.12   | 6.52   | 6.22  | 7.14  | 6.52   | 6.28  | 4.12  | -      | - | 4.19  | - | - |
| Critical Hdwy Stg 1  | 6.12   | 5.52   | -     | 6.14  | 5.52   | -     | -     | -      | - | -     | - | - |
| Critical Hdwy Stg 2  | 6.12   | 5.52   | -     | 6.14  | 5.52   | -     | -     | -      | - | -     | - | - |
| Follow-up Hdwy       | 3.518  | 4.018  | 3.318 | 3.536 | 4.018  | 3.372 | 2.218 | -      | - | 2.281 | - | - |
| Pot Cap-1 Maneuver   | 134    | 157    | 415   | 132   | 156    | 507   | 863   | -      | - | 966   | - | - |
| Stage 1              | 407    | 422    | -     | 498   | 501    | -     | -     | -      | - | -     | - | - |
| Stage 2              | 501    | 501    | -     | 404   | 421    | -     | -     | -      | - | -     | - | - |
| Platoon blocked, %   |        |        |       |       |        |       |       | -      | - | -     | - | - |
| Mov Cap-1 Maneuver   | 133    | 156    | 415   | 130   | 156    | 507   | 863   | -      | - | 966   | - | - |
| Mov Cap-2 Maneuver   | 133    | 156    | -     | 130   | 156    | -     | -     | -      | - | -     | - | - |
| Stage 1              | 407    | 422    | -     | 496   | 499    | -     | -     | -      | - | -     | - | - |
| Stage 2              | 500    | 499    | -     | 399   | 421    | -     | -     | -      | - | -     | - | - |

| Approach              | EB    | WB  |     |       | NB    |       |     | SB  |     |  |
|-----------------------|-------|-----|-----|-------|-------|-------|-----|-----|-----|--|
| HCM Ctrl Dly, s/v     | 23.85 | 0   |     |       | 0.03  |       |     | 0   |     |  |
| HCM LOS               | C     | A   |     |       |       |       |     |     |     |  |
| Minor Lane/Major Mvmt | NBL   | NBT | NBR | EBLn1 | WBLn1 | WBLn2 | SBL | SBT | SBR |  |
| Capacity (veh/h)      | 7     | -   | -   | 202   | -     | -     | 966 | -   | -   |  |
| HCM Lane V/C Ratio    | 0.003 | -   | -   | 0.054 | -     | -     | -   | -   | -   |  |
| HCM Ctrl Dly (s/v)    | 9.2   | 0   | -   | 23.8  | 0     | 0     | 0   | -   | -   |  |
| HCM Lane LOS          | A     | A   | -   | C     | A     | A     | A   | -   | -   |  |
| HCM 95th %tile Q(veh) | 0     | -   | -   | 0.2   | -     | -     | 0   | -   | -   |  |

## Timings

1: SR 211 &amp; SR 347/Bayberry Dr

06/03/2025



| Lane Group             | EBL   | EBT   | EBR   | WBL   | WBT   | NBL   | NBT   | SBL   | SBT   | SBR   |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations    | ↑ ↗   | ↑ ↘   | ↑ ↙   | ↑ ↖   | ↑ ↗   | ↑ ↙   | ↑ ↖   | ↑ ↙   | ↑ ↘   | ↑ ↙   |
| Traffic Volume (vph)   | 350   | 147   | 623   | 52    | 100   | 411   | 512   | 30    | 488   | 279   |
| Future Volume (vph)    | 350   | 147   | 623   | 52    | 100   | 411   | 512   | 30    | 488   | 279   |
| Turn Type              | pm+pt | NA    | Perm  | Perm  | NA    | Prot  | NA    | Prot  | NA    | Perm  |
| Protected Phases       | 3     | 8     |       |       | 4     | 1     | 6     | 5     | 2     |       |
| Permitted Phases       | 8     |       | 8     | 4     |       |       |       |       | 2     |       |
| Detector Phase         | 3     | 8     | 8     | 4     | 4     | 1     | 6     | 5     | 2     | 2     |
| Switch Phase           |       |       |       |       |       |       |       |       |       |       |
| Minimum Initial (s)    | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   |
| Minimum Split (s)      | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  |
| Total Split (s)        | 20.0  | 40.0  | 40.0  | 20.0  | 20.0  | 45.0  | 80.0  | 20.0  | 55.0  | 55.0  |
| Total Split (%)        | 14.3% | 28.6% | 28.6% | 14.3% | 14.3% | 32.1% | 57.1% | 14.3% | 39.3% | 39.3% |
| Yellow Time (s)        | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)       | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| Lost Time Adjust (s)   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Lost Time (s)    | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   |
| Lead/Lag               | Lead  |       |       | Lag   | Lag   | Lead  | Lag   | Lead  | Lag   | Lag   |
| Lead-Lag Optimize?     | Yes   |       |       | Yes   |
| Recall Mode            | None  | None  | None  | None  | None  | None  | C-Max | None  | C-Max | C-Max |
| Act Effect Green (s)   | 33.3  | 33.3  | 33.3  | 13.3  | 13.3  | 25.0  | 85.5  | 8.0   | 63.7  | 63.7  |
| Actuated g/C Ratio     | 0.24  | 0.24  | 0.24  | 0.10  | 0.10  | 0.18  | 0.61  | 0.06  | 0.46  | 0.46  |
| v/c Ratio              | 1.54  | 0.36  | 0.89  | 0.48  | 0.80  | 0.79  | 0.54  | 0.32  | 0.64  | 0.35  |
| Control Delay (s/veh)  | 297.8 | 46.9  | 25.5  | 73.8  | 88.8  | 64.6  | 19.6  | 70.7  | 35.0  | 3.8   |
| Queue Delay            | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Delay (s/veh)    | 297.8 | 46.9  | 25.5  | 73.8  | 88.8  | 64.6  | 19.6  | 70.7  | 35.0  | 3.8   |
| LOS                    | F     | D     | C     | E     | F     | E     | B     | E     | D     | A     |
| Approach Delay (s/veh) | 113.3 |       |       |       | 84.5  |       | 39.3  |       | 25.5  |       |
| Approach LOS           | F     |       |       |       | F     |       | D     |       | C     |       |

## Intersection Summary

Cycle Length: 140

Actuated Cycle Length: 140

Offset: 0 (0%), Referenced to phase 2:SBT and 6:NBT, Start of Green

Natural Cycle: 90

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 1.54

Intersection Signal Delay (s/veh): 64.9

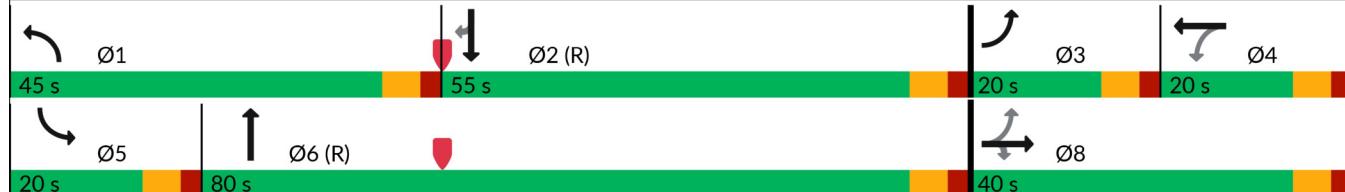
Intersection LOS: E

Intersection Capacity Utilization 83.9%

ICU Level of Service E

Analysis Period (min) 15

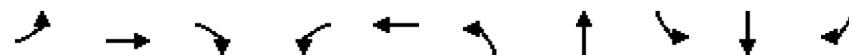
Splits and Phases: 1: SR 211 &amp; SR 347/Bayberry Dr



## Queues

1: SR 211 &amp; SR 347/Bayberry Dr

06/03/2025



| Lane Group              | EBL   | EBT  | EBR  | WBL  | WBT  | NBL  | NBT  | SBL  | SBT  | SBR  |
|-------------------------|-------|------|------|------|------|------|------|------|------|------|
| Lane Group Flow (vph)   | 372   | 156  | 663  | 57   | 143  | 467  | 601  | 33   | 530  | 303  |
| v/c Ratio               | 1.54  | 0.36 | 0.89 | 0.48 | 0.80 | 0.79 | 0.54 | 0.32 | 0.64 | 0.35 |
| Control Delay (s/veh)   | 297.8 | 46.9 | 25.5 | 73.8 | 88.8 | 64.6 | 19.6 | 70.7 | 35.0 | 3.8  |
| Queue Delay             | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Total Delay (s/veh)     | 297.8 | 46.9 | 25.5 | 73.8 | 88.8 | 64.6 | 19.6 | 70.7 | 35.0 | 3.8  |
| Queue Length 50th (ft)  | ~400  | 118  | 132  | 50   | 121  | 211  | 336  | 29   | 369  | 0    |
| Queue Length 95th (ft)  | #603  | 186  | #394 | 99   | #230 | 253  | 457  | 65   | 541  | 57   |
| Internal Link Dist (ft) |       | 1881 |      |      | 827  |      | 1407 |      | 3359 |      |
| Turn Bay Length (ft)    |       |      |      |      |      | 400  |      | 255  |      | 460  |
| Base Capacity (vph)     | 241   | 448  | 753  | 125  | 187  | 929  | 1108 | 180  | 824  | 865  |
| Starvation Cap Reductn  | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Spillback Cap Reductn   | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Storage Cap Reductn     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Reduced v/c Ratio       | 1.54  | 0.35 | 0.88 | 0.46 | 0.76 | 0.50 | 0.54 | 0.18 | 0.64 | 0.35 |

## Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.  
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.  
Queue shown is maximum after two cycles.

## HCM 7th Signalized Intersection Summary

1: SR 211 &amp; SR 347/Bayberry Dr

06/03/2025



| Movement                         | EBL   | EBT  | EBR   | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|----------------------------------|-------|------|-------|------|------|------|------|------|------|------|------|------|
| Lane Configurations              | ↑     | ↑    | ↑     | ↑    | ↑    | ↑    | ↑    | ↑    | ↑    | ↑    | ↑    | ↑    |
| Traffic Volume (veh/h)           | 350   | 147  | 623   | 52   | 100  | 30   | 411  | 512  | 17   | 30   | 488  | 279  |
| Future Volume (veh/h)            | 350   | 147  | 623   | 52   | 100  | 30   | 411  | 512  | 17   | 30   | 488  | 279  |
| Initial Q (Q <sub>b</sub> ), veh | 0     | 0    | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Lane Width Adj.                  | 1.00  | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT)              | 1.00  |      | 1.00  | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj                 | 1.00  | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach            | No    |      | No    |      |      | No   |      |      | No   |      | No   |      |
| Adj Sat Flow, veh/h/ln           | 1811  | 1856 | 1737  | 1900 | 1856 | 1900 | 1826 | 1841 | 1678 | 1900 | 1826 | 1826 |
| Adj Flow Rate, veh/h             | 372   | 156  | 663   | 57   | 110  | 33   | 467  | 582  | 0    | 33   | 530  | 0    |
| Peak Hour Factor                 | 0.94  | 0.94 | 0.94  | 0.91 | 0.91 | 0.91 | 0.88 | 0.88 | 0.88 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %             | 6     | 3    | 11    | 0    | 3    | 0    | 5    | 4    | 15   | 0    | 5    | 5    |
| Cap, veh/h                       | 250   | 451  | 357   | 119  | 137  | 41   | 540  | 1114 |      | 43   | 855  |      |
| Arrive On Green                  | 0.10  | 0.24 | 0.24  | 0.10 | 0.10 | 0.10 | 0.16 | 0.61 | 0.00 | 0.02 | 0.47 | 0.00 |
| Sat Flow, veh/h                  | 1725  | 1856 | 1472  | 678  | 1370 | 411  | 3374 | 1841 | 0    | 1810 | 1826 | 1547 |
| Grp Volume(v), veh/h             | 372   | 156  | 663   | 57   | 0    | 143  | 467  | 582  | 0    | 33   | 530  | 0    |
| Grp Sat Flow(s), veh/h/ln        | 1725  | 1856 | 1472  | 678  | 0    | 1782 | 1687 | 1841 | 0    | 1810 | 1826 | 1547 |
| Q Serve(g_s), s                  | 14.0  | 9.7  | 34.0  | 11.6 | 0.0  | 11.0 | 18.9 | 25.6 | 0.0  | 2.5  | 30.4 | 0.0  |
| Cycle Q Clear(g_c), s            | 14.0  | 9.7  | 34.0  | 11.6 | 0.0  | 11.0 | 18.9 | 25.6 | 0.0  | 2.5  | 30.4 | 0.0  |
| Prop In Lane                     | 1.00  |      | 1.00  | 1.00 |      | 0.23 | 1.00 |      | 0.00 | 1.00 |      | 1.00 |
| Lane Grp Cap(c), veh/h           | 250   | 451  | 357   | 119  | 0    | 178  | 540  | 1114 |      | 43   | 855  |      |
| V/C Ratio(X)                     | 1.49  | 0.35 | 1.85  | 0.48 | 0.00 | 0.80 | 0.86 | 0.52 |      | 0.77 | 0.62 |      |
| Avail Cap(c_a), veh/h            | 250   | 451  | 357   | 119  | 0    | 178  | 940  | 1114 |      | 181  | 855  |      |
| HCM Platoon Ratio                | 1.00  | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)               | 1.00  | 1.00 | 1.00  | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh         | 54.0  | 43.8 | 53.0  | 61.9 | 0.0  | 61.6 | 57.3 | 16.0 | 0.0  | 68.0 | 27.9 | 0.0  |
| Incr Delay (d2), s/veh           | 240.3 | 0.5  | 395.2 | 2.9  | 0.0  | 22.6 | 4.3  | 1.8  | 0.0  | 25.1 | 3.4  | 0.0  |
| Initial Q Delay(d3), s/veh       | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln        | 18.8  | 4.5  | 51.5  | 2.1  | 0.0  | 6.1  | 8.2  | 10.6 | 0.0  | 1.5  | 13.6 | 0.0  |
| Unsig. Movement Delay, s/veh     |       |      |       |      |      |      |      |      |      |      |      |      |
| LnGrp Delay(d), s/veh            | 294.2 | 44.3 | 448.2 | 64.9 | 0.0  | 84.3 | 61.6 | 17.7 | 0.0  | 93.0 | 31.2 | 0.0  |
| LnGrp LOS                        | F     | D    | F     | E    |      | F    | E    | B    |      | F    | C    |      |
| Approach Vol, veh/h              |       |      |       |      |      | 200  |      |      | 1049 |      | 563  |      |
| Approach Delay, s/veh            |       |      |       |      |      | 78.7 |      |      | 37.3 |      | 34.9 |      |
| Approach LOS                     |       |      | F     |      |      | E    |      |      | D    |      | C    |      |
| Timer - Assigned Phs             | 1     | 2    | 3     | 4    | 5    | 6    |      |      | 8    |      |      |      |
| Phs Duration (G+Y+Rc), s         | 28.4  | 71.6 | 20.0  | 20.0 | 9.3  | 90.7 |      |      | 40.0 |      |      |      |
| Change Period (Y+Rc), s          | 6.0   | 6.0  | 6.0   | 6.0  | 6.0  | 6.0  |      |      | 6.0  |      |      |      |
| Max Green Setting (Gmax), s      | 39.0  | 49.0 | 14.0  | 14.0 | 14.0 | 74.0 |      |      | 34.0 |      |      |      |
| Max Q Clear Time (g_c+l1), s     | 20.9  | 32.4 | 16.0  | 13.6 | 4.5  | 27.6 |      |      | 36.0 |      |      |      |
| Green Ext Time (p_c), s          | 1.5   | 2.8  | 0.0   | 0.1  | 0.0  | 3.9  |      |      | 0.0  |      |      |      |

## Intersection Summary

HCM 7th Control Delay, s/veh

162.5

HCM 7th LOS

F

## Notes

Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.



| Lane Group             | EBU   | EBT   | EBR   | WBU   | WBL   | WBT   | NBL   | NBR   |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations    |       |       |       |       |       |       |       |       |
| Traffic Volume (vph)   | 2     | 986   | 420   | 1     | 89    | 736   | 463   | 150   |
| Future Volume (vph)    | 2     | 986   | 420   | 1     | 89    | 736   | 463   | 150   |
| Turn Type              | Perm  | NA    | Perm  | Perm  | Perm  | NA    | Prot  | Perm  |
| Protected Phases       |       |       | 2     |       |       | 6     | 8     |       |
| Permitted Phases       | 2     |       |       | 2     | 6     | 6     |       | 8     |
| Detector Phase         | 2     | 2     | 2     | 6     | 6     | 6     | 8     | 8     |
| Switch Phase           |       |       |       |       |       |       |       |       |
| Minimum Initial (s)    | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |
| Minimum Split (s)      | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  |
| Total Split (s)        | 50.0  | 50.0  | 50.0  | 50.0  | 50.0  | 50.0  | 30.0  | 30.0  |
| Total Split (%)        | 62.5% | 62.5% | 62.5% | 62.5% | 62.5% | 62.5% | 37.5% | 37.5% |
| Yellow Time (s)        | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)       | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| Lost Time Adjust (s)   | 0.0   | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Lost Time (s)    | 6.0   | 6.0   | 6.0   |       | 6.0   | 6.0   | 6.0   | 6.0   |
| Lead/Lag               |       |       |       |       |       |       |       |       |
| Lead-Lag Optimize?     |       |       |       |       |       |       |       |       |
| Recall Mode            | Min   | Min   | Min   | Min   | Min   | Min   | None  | None  |
| Act Effect Green (s)   | 30.9  | 30.9  | 30.9  |       | 30.9  | 30.9  | 14.6  | 14.6  |
| Actuated g/C Ratio     | 0.53  | 0.53  | 0.53  |       | 0.53  | 0.53  | 0.25  | 0.25  |
| v/c Ratio              | 0.01  | 0.65  | 0.48  |       | 0.55  | 0.42  | 0.59  | 0.41  |
| Control Delay (s/veh)  | 7.0   | 11.7  | 2.6   |       | 24.0  | 9.1   | 23.5  | 16.8  |
| Queue Delay            | 0.0   | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Delay (s/veh)    | 7.0   | 11.7  | 2.6   |       | 24.0  | 9.1   | 23.5  | 16.8  |
| LOS                    | A     | B     | A     |       | C     | A     | C     | B     |
| Approach Delay (s/veh) |       | 9.0   |       |       |       | 10.7  | 21.9  |       |
| Approach LOS           |       | A     |       |       |       | B     | C     |       |

## Intersection Summary

Cycle Length: 80

Actuated Cycle Length: 58.2

Natural Cycle: 60

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.65

Intersection Signal Delay (s/veh): 12.1

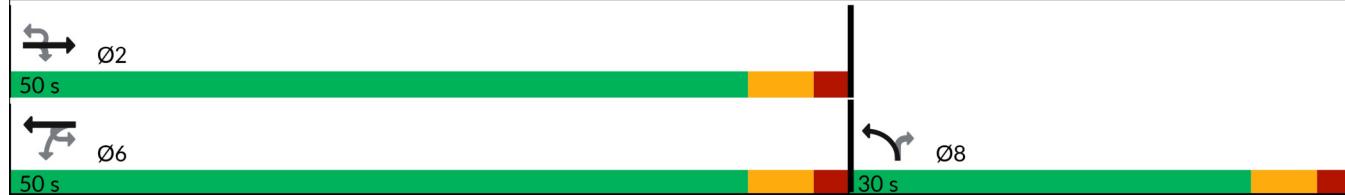
Intersection LOS: B

Intersection Capacity Utilization 60.5%

ICU Level of Service B

Analysis Period (min) 15

Splits and Phases: 2: SR 211 &amp; SR 53





| Lane Group              | EBU  | EBT  | EBR  | WBL  | WBT  | NBL  | NBR  |
|-------------------------|------|------|------|------|------|------|------|
| Lane Group Flow (vph)   | 2    | 1160 | 494  | 94   | 767  | 498  | 161  |
| v/c Ratio               | 0.01 | 0.65 | 0.48 | 0.55 | 0.42 | 0.59 | 0.41 |
| Control Delay (s/veh)   | 7.0  | 11.7 | 2.6  | 24.0 | 9.1  | 23.5 | 16.8 |
| Queue Delay             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Total Delay (s/veh)     | 7.0  | 11.7 | 2.6  | 24.0 | 9.1  | 23.5 | 16.8 |
| Queue Length 50th (ft)  | 0    | 129  | 0    | 18   | 72   | 77   | 27   |
| Queue Length 95th (ft)  | 3    | 214  | 29   | 80   | 135  | 150  | 87   |
| Internal Link Dist (ft) |      | 2207 |      |      | 2068 | 4517 |      |
| Turn Bay Length (ft)    | 290  |      | 180  | 190  |      | 260  | 860  |
| Base Capacity (vph)     | 503  | 2621 | 1282 | 251  | 2646 | 1484 | 634  |
| Starvation Cap Reductn  | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Spillback Cap Reductn   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Storage Cap Reductn     | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Reduced v/c Ratio       | 0.00 | 0.44 | 0.39 | 0.37 | 0.29 | 0.34 | 0.25 |

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#### Intersection Summary

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## HCM 7th Signalized Intersection Summary

2: SR 211 &amp; SR 53

06/03/2025



| Movement                                   | EBU  | EBT  | EBR  | WBU  | WBL  | WBT  | NBL  | NBR  |
|--|------|------|------|------|------|------|------|------|
| Lane Configurations                        | 1    | 2    | 1    | 1    | 1    | 2    | 1    | 1    |
| Traffic Volume (veh/h)                     | 2    | 986  | 420  | 1    | 89   | 736  | 463  | 150  |
| Future Volume (veh/h)                      | 2    | 986  | 420  | 1    | 89   | 736  | 463  | 150  |
| Initial Q (Q <sub>b</sub> ), veh           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Lane Width Adj.                            | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT)                        |      | 1.00 |      | 1.00 |      | 1.00 | 1.00 |      |
| Parking Bus, Adj                           | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach                      | No   |      |      | No   |      | No   |      |      |
| Adj Sat Flow, veh/h/ln                     | 1796 | 1796 |      | 1781 | 1811 | 1856 | 1633 |      |
| Adj Flow Rate, veh/h                       | 1160 | 494  |      | 93   | 767  | 498  | 161  |      |
| Peak Hour Factor                           | 0.85 | 0.85 | 0.96 | 0.96 | 0.93 | 0.93 | 0.93 |      |
| Percent Heavy Veh, %                       | 7    | 7    | 8    | 6    | 3    | 18   |      |      |
| Cap, veh/h                                 | 2067 | 922  | 232  | 2085 | 688  | 278  |      |      |
| Arrive On Green                            | 0.61 | 0.61 | 0.61 | 0.61 | 0.20 | 0.20 |      |      |
| Sat Flow, veh/h                            | 3503 | 1522 | 287  | 3532 | 3428 | 1384 |      |      |
| Grp Volume(v), veh/h                       | 1160 | 494  | 93   | 767  | 498  | 161  |      |      |
| Grp Sat Flow(s), veh/h/ln                  | 1706 | 1522 | 287  | 1721 | 1714 | 1384 |      |      |
| Q Serve(g_s), s                            | 12.6 | 11.7 | 17.7 | 7.0  | 8.4  | 6.5  |      |      |
| Cycle Q Clear(g_c), s                      | 12.6 | 11.7 | 30.3 | 7.0  | 8.4  | 6.5  |      |      |
| Prop In Lane                               | 1.00 |      | 1.00 | 1.00 | 1.00 | 1.00 |      |      |
| Lane Grp Cap(c), veh/h                     | 2067 | 922  | 232  | 2085 | 688  | 278  |      |      |
| V/C Ratio(X)                               | 0.56 | 0.54 | 0.40 | 0.37 | 0.72 | 0.58 |      |      |
| Avail Cap(c_a), veh/h                      | 2424 | 1081 | 262  | 2444 | 1328 | 536  |      |      |
| HCM Platoon Ratio                          | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |      |      |
| Upstream Filter(l)                         | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |      |      |
| Uniform Delay (d), s/veh                   | 7.3  | 7.1  | 16.3 | 6.2  | 23.2 | 22.4 |      |      |
| Incr Delay (d2), s/veh                     | 0.2  | 0.5  | 1.1  | 0.1  | 1.5  | 1.9  |      |      |
| Initial Q Delay(d3), s/veh                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |      |      |
| %ile BackOfQ(50%), veh/ln                  | 2.9  | 2.5  | 1.0  | 1.6  | 3.1  | 2.0  |      |      |
| Unsig. Movement Delay, s/veh               |      |      |      |      |      |      |      |      |
| LnGrp Delay(d), s/veh                      | 7.5  | 7.6  | 17.5 | 6.3  | 24.6 | 24.3 |      |      |
| LnGrp LOS                                  | A    | A    | B    | A    | C    | C    |      |      |
| Approach Vol, veh/h                        | 1654 |      |      | 860  | 659  |      |      |      |
| Approach Delay, s/veh                      | 7.6  |      |      | 7.5  | 24.6 |      |      |      |
| Approach LOS                               | A    |      |      | A    | C    |      |      |      |
| Timer - Assigned Phs                       | 2    |      |      | 6    |      | 8    |      |      |
| Phs Duration (G+Y+R <sub>c</sub> ), s      | 43.5 |      |      | 43.5 | 18.4 |      |      |      |
| Change Period (Y+R <sub>c</sub> ), s       | 6.0  |      |      | 6.0  | 6.0  |      |      |      |
| Max Green Setting (Gmax), s                | 44.0 |      |      | 44.0 | 24.0 |      |      |      |
| Max Q Clear Time (g_c+l1), s               | 14.6 |      |      | 32.3 | 10.4 |      |      |      |
| Green Ext Time (p_c), s                    | 11.8 |      |      | 5.2  | 2.0  |      |      |      |
| <b>Intersection Summary</b>                |      |      |      |      |      |      |      |      |
| HCM 7th Control Delay, s/veh               |      | 11.1 |      |      |      |      |      |      |
| HCM 7th LOS                                |      | B    |      |      |      |      |      |      |
| <b>Notes</b>                               |      |      |      |      |      |      |      |      |
| User approved ignoring U-Turning movement. |      |      |      |      |      |      |      |      |

## Intersection

Int Delay, s/veh 0.2

| Movement                 | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations      | ↔    |      |      | ↑    | ↑    |      | ↔    | ↔    |      | ↑    | ↑    |      |
| Traffic Vol, veh/h       | 4    | 0    | 4    | 0    | 0    | 0    | 5    | 616  | 0    | 0    | 473  | 5    |
| Future Vol, veh/h        | 4    | 0    | 4    | 0    | 0    | 0    | 5    | 616  | 0    | 0    | 473  | 5    |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized           | -    | -    | None |
| Storage Length           | -    | -    | -    | 0    | -    | -    | -    | -    | -    | -    | -    | 200  |
| Veh in Median Storage, # | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Grade, %                 | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Peak Hour Factor         | 92   | 92   | 92   | 92   | 92   | 92   | 92   | 83   | 83   | 92   | 92   | 92   |
| Heavy Vehicles, %        | 2    | 2    | 2    | 4    | 2    | 8    | 2    | 5    | 5    | 9    | 6    | 2    |
| Mvmt Flow                | 4    | 0    | 4    | 0    | 0    | 0    | 5    | 742  | 0    | 0    | 514  | 5    |

| Major/Minor          | Minor2 | Minor1 |       |       | Major1 |       |       | Major2 |   |       |   |   |
|----------------------|--------|--------|-------|-------|--------|-------|-------|--------|---|-------|---|---|
| Conflicting Flow All | 1267   | 1267   | 514   | 1267  | 1273   | 742   | 520   | 0      | 0 | 742   | 0 | 0 |
| Stage 1              | 514    | 514    | -     | 753   | 753    | -     | -     | -      | - | -     | - | - |
| Stage 2              | 753    | 753    | -     | 514   | 520    | -     | -     | -      | - | -     | - | - |
| Critical Hdwy        | 7.12   | 6.52   | 6.22  | 7.14  | 6.52   | 6.28  | 4.12  | -      | - | 4.19  | - | - |
| Critical Hdwy Stg 1  | 6.12   | 5.52   | -     | 6.14  | 5.52   | -     | -     | -      | - | -     | - | - |
| Critical Hdwy Stg 2  | 6.12   | 5.52   | -     | 6.14  | 5.52   | -     | -     | -      | - | -     | - | - |
| Follow-up Hdwy       | 3.518  | 4.018  | 3.318 | 3.536 | 4.018  | 3.372 | 2.218 | -      | - | 2.281 | - | - |
| Pot Cap-1 Maneuver   | 146    | 169    | 560   | 144   | 167    | 406   | 1047  | -      | - | 834   | - | - |
| Stage 1              | 543    | 535    | -     | 399   | 417    | -     | -     | -      | - | -     | - | - |
| Stage 2              | 402    | 417    | -     | 540   | 532    | -     | -     | -      | - | -     | - | - |
| Platoon blocked, %   |        |        |       |       |        |       |       | -      | - | -     | - | - |
| Mov Cap-1 Maneuver   | 144    | 167    | 560   | 142   | 166    | 406   | 1047  | -      | - | 834   | - | - |
| Mov Cap-2 Maneuver   | 144    | 167    | -     | 142   | 166    | -     | -     | -      | - | -     | - | - |
| Stage 1              | 543    | 535    | -     | 395   | 414    | -     | -     | -      | - | -     | - | - |
| Stage 2              | 398    | 414    | -     | 535   | 532    | -     | -     | -      | - | -     | - | - |

| Approach              | EB    | WB  |     |       | NB    |       |     | SB  |     |  |
|-----------------------|-------|-----|-----|-------|-------|-------|-----|-----|-----|--|
| HCM Ctrl Dly, s/v     | 21.3  | 0   |     |       | 0.06  |       |     | 0   |     |  |
| HCM LOS               | C     | A   |     |       |       |       |     |     |     |  |
| Minor Lane/Major Mvmt | NBL   | NBT | NBR | EBLn1 | WBLn1 | WBLn2 | SBL | SBT | SBR |  |
| Capacity (veh/h)      | 13    | -   | -   | 229   | -     | -     | 834 | -   | -   |  |
| HCM Lane V/C Ratio    | 0.005 | -   | -   | 0.038 | -     | -     | -   | -   | -   |  |
| HCM Ctrl Dly (s/v)    | 8.5   | 0   | -   | 21.3  | 0     | 0     | 0   | -   | -   |  |
| HCM Lane LOS          | A     | A   | -   | C     | A     | A     | A   | -   | -   |  |
| HCM 95th %tile Q(veh) | 0     | -   | -   | 0.1   | -     | -     | 0   | -   | -   |  |

## Timings

1: SR 211 &amp; SR 347/Bayberry Dr

06/03/2025

| Lane Group             | EBU    | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   |
|------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations    |        |       |       |       |       |       |       |       |       |       |       |       |
| Traffic Volume (vph)   | 1      | 267   | 72    | 347   | 30    | 114   | 44    | 591   | 512   | 15    | 24    | 590   |
| Future Volume (vph)    | 1      | 267   | 72    | 347   | 30    | 114   | 44    | 591   | 512   | 15    | 24    | 590   |
| Turn Type              | custom | pm+pt | NA    | pm+ov | Perm  | NA    | Perm  | Prot  | NA    | Perm  | Prot  | NA    |
| Protected Phases       |        |       | 3     | 8     | 1     |       | 4     |       | 1     | 6     | 5     | 2     |
| Permitted Phases       |        |       | 3     | 8     |       | 8     | 4     |       | 4     |       | 6     |       |
| Detector Phase         |        |       | 3     | 3     | 8     | 1     | 4     | 4     | 1     | 6     | 6     | 2     |
| Switch Phase           |        |       |       |       |       |       |       |       |       |       |       |       |
| Minimum Initial (s)    | 4.0    | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   |
| Minimum Split (s)      | 10.0   | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  |
| Total Split (s)        | 20.0   | 20.0  | 40.0  | 45.0  | 20.0  | 20.0  | 20.0  | 45.0  | 80.0  | 80.0  | 20.0  | 55.0  |
| Total Split (%)        | 14.3%  | 14.3% | 28.6% | 32.1% | 14.3% | 14.3% | 14.3% | 32.1% | 57.1% | 57.1% | 14.3% | 39.3% |
| Yellow Time (s)        | 4.0    | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)       | 2.0    | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| Lost Time Adjust (s)   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Lost Time (s)    | 6.0    | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   |
| Lead/Lag               | Lead   | Lead  |       | Lead  | Lag   | Lag   | Lag   | Lead  | Lead  | Lead  | Lag   | Lag   |
| Lead-Lag Optimize?     | Yes    | Yes   |       | Yes   |
| Recall Mode            | None   | None  | None  | None  | None  | None  | None  | None  | C-Max | C-Max | None  | C-Max |
| Act Effect Green (s)   | 32.4   | 32.4  | 72.2  | 12.9  | 12.9  | 12.9  | 33.7  | 83.6  | 83.6  | 10.8  | 55.8  |       |
| Actuated g/C Ratio     | 0.23   | 0.23  | 0.52  | 0.09  | 0.09  | 0.09  | 0.24  | 0.60  | 0.60  | 0.08  | 0.40  |       |
| v/c Ratio              | 0.60   | 0.18  | 0.26  | 0.27  | 0.74  | 0.16  | 0.84  | 0.28  | 0.02  | 0.19  | 0.47  |       |
| Control Delay (s/veh)  | 50.5   | 43.7  | 9.6   | 64.3  | 86.7  | 1.2   | 60.2  | 15.7  | 0.1   | 61.7  | 33.7  |       |
| Queue Delay            | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Delay (s/veh)    | 50.5   | 43.7  | 9.6   | 64.3  | 86.7  | 1.2   | 60.2  | 15.7  | 0.1   | 61.7  | 33.7  |       |
| LOS                    | D      | D     | A     | E     | F     | A     | E     | B     | A     | E     | C     |       |
| Approach Delay (s/veh) |        |       | 29.1  |       |       | 63.2  |       |       | 39.1  |       |       | 27.7  |
| Approach LOS           |        |       | C     |       |       | E     |       |       | D     |       |       | C     |

## Intersection Summary

Cycle Length: 140

Actuated Cycle Length: 140

Offset: 0 (0%), Referenced to phase 2:SBT and 6:NBT, Start of Green

Natural Cycle: 65

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.84

Intersection Signal Delay (s/veh): 34.4

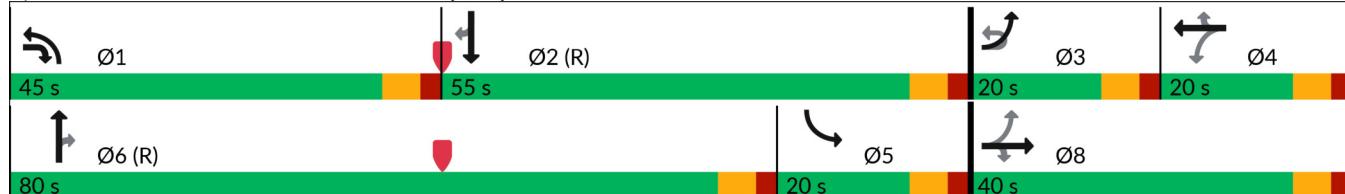
Intersection LOS: C

Intersection Capacity Utilization 74.8%

ICU Level of Service D

Analysis Period (min) 15

Splits and Phases: 1: SR 211 &amp; SR 347/Bayberry Dr



## Timings

1: SR 211 &amp; SR 347/Bayberry Dr

06/03/2025



|                             |       |
|-----------------------------|-------|
| Lane Group                  | SBR   |
| Lane Configurations         | 1     |
| Traffic Volume (vph)        | 462   |
| Future Volume (vph)         | 462   |
| Turn Type                   | Perm  |
| Protected Phases            |       |
| Permitted Phases            | 2     |
| Detector Phase              | 2     |
| Switch Phase                |       |
| Minimum Initial (s)         | 4.0   |
| Minimum Split (s)           | 10.0  |
| Total Split (s)             | 55.0  |
| Total Split (%)             | 39.3% |
| Yellow Time (s)             | 4.0   |
| All-Red Time (s)            | 2.0   |
| Lost Time Adjust (s)        | 0.0   |
| Total Lost Time (s)         | 6.0   |
| Lead/Lag                    | Lag   |
| Lead-Lag Optimize?          | Yes   |
| Recall Mode                 | C-Max |
| Act Effect Green (s)        | 55.8  |
| Actuated g/C Ratio          | 0.40  |
| v/c Ratio                   | 0.64  |
| Control Delay (s/veh)       | 18.3  |
| Queue Delay                 | 0.0   |
| Total Delay (s/veh)         | 18.3  |
| LOS                         | B     |
| Approach Delay (s/veh)      |       |
| Approach LOS                |       |
| <u>Intersection Summary</u> |       |

## Queues

1: SR 211 &amp; SR 347/Bayberry Dr

06/03/2025



| Lane Group              | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Group Flow (vph)   | 285  | 77   | 369  | 33   | 125  | 48   | 672  | 582  | 17   | 26   | 641  | 502  |
| v/c Ratio               | 0.60 | 0.18 | 0.26 | 0.27 | 0.74 | 0.16 | 0.84 | 0.28 | 0.02 | 0.19 | 0.47 | 0.64 |
| Control Delay (s/veh)   | 50.5 | 43.7 | 9.6  | 64.3 | 86.7 | 1.2  | 60.2 | 15.7 | 0.1  | 61.7 | 33.7 | 18.3 |
| Queue Delay             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Total Delay (s/veh)     | 50.5 | 43.7 | 9.6  | 64.3 | 86.7 | 1.2  | 60.2 | 15.7 | 0.1  | 61.7 | 33.7 | 18.3 |
| Queue Length 50th (ft)  | 111  | 56   | 51   | 28   | 112  | 0    | 300  | 153  | 0    | 22   | 231  | 153  |
| Queue Length 95th (ft)  | 155  | 101  | 77   | 64   | #196 | 0    | 346  | 188  | 0    | 54   | 306  | 301  |
| Internal Link Dist (ft) |      | 1881 |      |      | 827  |      |      | 1407 |      |      | 3359 |      |
| Turn Bay Length (ft)    | 360  |      | 390  |      |      | 100  | 610  |      | 330  | 590  |      | 405  |
| Base Capacity (vph)     | 484  | 448  | 1491 | 134  | 184  | 309  | 929  | 2072 | 885  | 180  | 1371 | 790  |
| Starvation Cap Reductn  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Spillback Cap Reductn   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Storage Cap Reductn     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Reduced v/c Ratio       | 0.59 | 0.17 | 0.25 | 0.25 | 0.68 | 0.16 | 0.72 | 0.28 | 0.02 | 0.14 | 0.47 | 0.64 |

## Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

## HCM 7th Signalized Intersection Summary

1: SR 211 &amp; SR 347/Bayberry Dr

06/03/2025

| Movement                         | EBU  | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  |
|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations              |      |      |      |      |      |      |      |      |      |      |      |      |
| Traffic Volume (veh/h)           | 1    | 267  | 72   | 347  | 30   | 114  | 44   | 591  | 512  | 15   | 24   | 590  |
| Future Volume (veh/h)            | 1    | 267  | 72   | 347  | 30   | 114  | 44   | 591  | 512  | 15   | 24   | 590  |
| Initial Q (Q <sub>b</sub> ), veh | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Lane Width Adj.                  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT)              | 1.00 |      |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      |
| Parking Bus, Adj                 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach            | No   |      |      | No   |      |      | No   |      | No   |      | No   |      |
| Adj Sat Flow, veh/h/ln           | 1811 | 1856 | 1737 | 1900 | 1856 | 1900 | 1826 | 1841 | 1678 | 1900 | 1826 |      |
| Adj Flow Rate, veh/h             | 284  | 77   | 369  | 33   | 125  | 48   | 672  | 582  | 0    | 26   | 641  |      |
| Peak Hour Factor                 | 0.94 | 0.94 | 0.94 | 0.91 | 0.91 | 0.91 | 0.88 | 0.88 | 0.88 | 0.92 | 0.92 |      |
| Percent Heavy Veh, %             | 6    | 3    | 11   | 0    | 3    | 0    | 5    | 4    | 15   | 0    | 5    |      |
| Cap, veh/h                       | 443  | 401  | 1133 | 130  | 153  | 132  | 747  | 1849 |      | 230  | 1507 |      |
| Arrive On Green                  | 0.09 | 0.22 | 0.22 | 0.08 | 0.08 | 0.08 | 0.22 | 0.53 | 0.00 | 0.13 | 0.43 |      |
| Sat Flow, veh/h                  | 3346 | 1856 | 2591 | 959  | 1856 | 1610 | 3374 | 3497 | 1422 | 1810 | 3469 |      |
| Grp Volume(v), veh/h             | 284  | 77   | 369  | 33   | 125  | 48   | 672  | 582  | 0    | 26   | 641  |      |
| Grp Sat Flow(s), veh/h/ln        | 1673 | 1856 | 1295 | 959  | 1856 | 1610 | 1687 | 1749 | 1422 | 1810 | 1735 |      |
| Q Serve(g_s), s                  | 10.6 | 4.8  | 13.1 | 4.6  | 9.3  | 3.0  | 27.1 | 13.2 | 0.0  | 1.8  | 18.0 |      |
| Cycle Q Clear(g_c), s            | 10.6 | 4.8  | 13.1 | 4.6  | 9.3  | 3.0  | 27.1 | 13.2 | 0.0  | 1.8  | 18.0 |      |
| Prop In Lane                     | 1.00 |      |      | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      |      |
| Lane Grp Cap(c), veh/h           | 443  | 401  | 1133 | 130  | 153  | 132  | 747  | 1849 |      | 230  | 1507 |      |
| V/C Ratio(X)                     | 0.64 | 0.19 | 0.33 | 0.25 | 0.82 | 0.36 | 0.90 | 0.31 |      | 0.11 | 0.43 |      |
| Avail Cap(c_a), veh/h            | 474  | 451  | 1203 | 147  | 186  | 161  | 940  | 1849 |      | 230  | 1507 |      |
| HCM Platoon Ratio                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |      |
| Upstream Filter(l)               | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh         | 51.0 | 44.9 | 25.9 | 61.1 | 63.2 | 35.9 | 53.0 | 18.7 | 0.0  | 54.1 | 27.5 |      |
| Incr Delay (d2), s/veh           | 2.7  | 0.2  | 0.2  | 1.0  | 20.7 | 1.7  | 9.9  | 0.4  | 0.0  | 0.2  | 0.9  |      |
| Initial Q Delay(d3), s/veh       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |      |
| %ile BackOfQ(50%), veh/ln        | 4.5  | 2.2  | 4.0  | 1.2  | 5.3  | 1.6  | 12.2 | 5.3  | 0.0  | 0.8  | 7.4  |      |
| Unsig. Movement Delay, s/veh     |      |      |      |      |      |      |      |      |      |      |      |      |
| LnGrp Delay(d), s/veh            | 53.7 | 45.1 | 26.0 | 62.1 | 83.9 | 37.5 | 62.9 | 19.1 | 0.0  | 54.3 | 28.4 |      |
| LnGrp LOS                        | D    | D    | C    | E    | F    | D    | E    | B    |      | D    | C    |      |
| Approach Vol, veh/h              |      | 730  |      |      | 206  |      |      | 1254 |      |      | 1169 |      |
| Approach Delay, s/veh            |      | 38.8 |      |      | 69.6 |      |      | 42.6 |      |      | 34.2 |      |
| Approach LOS                     |      | D    |      |      | E    |      |      | D    |      |      | C    |      |
| Timer - Assigned Phs             | 1    | 2    | 3    | 4    | 5    | 6    |      | 8    |      |      |      |      |
| Phs Duration (G+Y+Rc), s         | 37.0 | 66.8 | 18.7 | 17.5 | 23.8 | 80.0 |      | 36.2 |      |      |      |      |
| Change Period (Y+Rc), s          | 6.0  | 6.0  | 6.0  | 6.0  | 6.0  | 6.0  |      | 6.0  |      |      |      |      |
| Max Green Setting (Gmax), s      | 39.0 | 49.0 | 14.0 | 14.0 | 14.0 | 74.0 |      | 34.0 |      |      |      |      |
| Max Q Clear Time (g_c+l1), s     | 29.1 | 40.0 | 12.6 | 11.3 | 3.8  | 15.2 |      | 15.1 |      |      |      |      |
| Green Ext Time (p_c), s          | 1.9  | 3.9  | 0.1  | 0.2  | 0.0  | 4.0  |      | 1.7  |      |      |      |      |

## Intersection Summary

HCM 7th Control Delay, s/veh

40.5

HCM 7th LOS

D

## Notes

User approved ignoring U-Turning movement.

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.



| Movement                         | SBR  |
|----------------------------------|------|
| Lane Configurations              | 1    |
| Traffic Volume (veh/h)           | 462  |
| Future Volume (veh/h)            | 462  |
| Initial Q (Q <sub>b</sub> ), veh | 0    |
| Lane Width Adj.                  | 1.00 |
| Ped-Bike Adj(A_pbT)              | 1.00 |
| Parking Bus, Adj                 | 1.00 |
| Work Zone On Approach            |      |
| Adj Sat Flow, veh/h/ln           | 1826 |
| Adj Flow Rate, veh/h             | 502  |
| Peak Hour Factor                 | 0.92 |
| Percent Heavy Veh, %             | 5    |
| Cap, veh/h                       | 672  |
| Arrive On Green                  | 0.43 |
| Sat Flow, veh/h                  | 1547 |
| Grp Volume(v), veh/h             | 502  |
| Grp Sat Flow(s), veh/h/ln        | 1547 |
| Q Serve(g_s), s                  | 38.0 |
| Cycle Q Clear(g_c), s            | 38.0 |
| Prop In Lane                     | 1.00 |
| Lane Grp Cap(c), veh/h           | 672  |
| V/C Ratio(X)                     | 0.75 |
| Avail Cap(c_a), veh/h            | 672  |
| HCM Platoon Ratio                | 1.00 |
| Upstream Filter(l)               | 1.00 |
| Uniform Delay (d), s/veh         | 33.2 |
| Incr Delay (d2), s/veh           | 7.4  |
| Initial Q Delay(d3), s/veh       | 0.0  |
| %ile BackOfQ(50%), veh/ln        | 15.1 |
| Unsig. Movement Delay, s/veh     |      |
| LnGrp Delay(d), s/veh            | 40.6 |
| LnGrp LOS                        | D    |
| Approach Vol, veh/h              |      |
| Approach Delay, s/veh            |      |
| Approach LOS                     |      |
| Timer - Assigned Phs             |      |



| Lane Group             | EBU   | EBT   | EBR   | WBU   | WBL   | WBT   | NBL   | NBR   |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations    | 2     | 483   | 515   | 1     | 184   | 1006  | 538   | 87    |
| Traffic Volume (vph)   | 2     | 483   | 515   | 1     | 184   | 1006  | 538   | 87    |
| Future Volume (vph)    | 2     | 483   | 515   | 1     | 184   | 1006  | 538   | 87    |
| Turn Type              | Perm  | NA    | Perm  | Perm  | Perm  | NA    | Prot  | Perm  |
| Protected Phases       |       | 2     |       |       |       | 6     | 8     |       |
| Permitted Phases       | 2     |       | 2     | 6     | 6     |       | 8     |       |
| Detector Phase         | 2     | 2     | 2     | 6     | 6     | 6     | 8     | 8     |
| Switch Phase           |       |       |       |       |       |       |       |       |
| Minimum Initial (s)    | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |
| Minimum Split (s)      | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  |
| Total Split (s)        | 50.0  | 50.0  | 50.0  | 50.0  | 50.0  | 50.0  | 30.0  | 30.0  |
| Total Split (%)        | 62.5% | 62.5% | 62.5% | 62.5% | 62.5% | 62.5% | 37.5% | 37.5% |
| Yellow Time (s)        | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)       | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| Lost Time Adjust (s)   | 0.0   | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Lost Time (s)    | 6.0   | 6.0   | 6.0   |       | 6.0   | 6.0   | 6.0   | 6.0   |
| Lead/Lag               |       |       |       |       |       |       |       |       |
| Lead-Lag Optimize?     |       |       |       |       |       |       |       |       |
| Recall Mode            | Min   | Min   | Min   | Min   | Min   | Min   | None  | None  |
| Act Effect Green (s)   | 26.2  | 26.2  | 26.2  |       | 26.2  | 26.2  | 15.2  | 15.2  |
| Actuated g/C Ratio     | 0.48  | 0.48  | 0.48  |       | 0.48  | 0.48  | 0.28  | 0.28  |
| v/c Ratio              | 0.01  | 0.35  | 0.58  |       | 0.52  | 0.64  | 0.61  | 0.21  |
| Control Delay (s/veh)  | 8.0   | 9.4   | 3.4   |       | 15.9  | 12.5  | 21.2  | 6.2   |
| Queue Delay            | 0.0   | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Delay (s/veh)    | 8.0   | 9.4   | 3.4   |       | 15.9  | 12.5  | 21.2  | 6.2   |
| LOS                    | A     | A     | A     |       | B     | B     | C     | A     |
| Approach Delay (s/veh) |       | 6.3   |       |       |       | 13.0  | 19.1  |       |
| Approach LOS           |       | A     |       |       |       | B     | B     |       |

## Intersection Summary

Cycle Length: 80

Actuated Cycle Length: 54.2

Natural Cycle: 55

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.64

Intersection Signal Delay (s/veh): 11.8

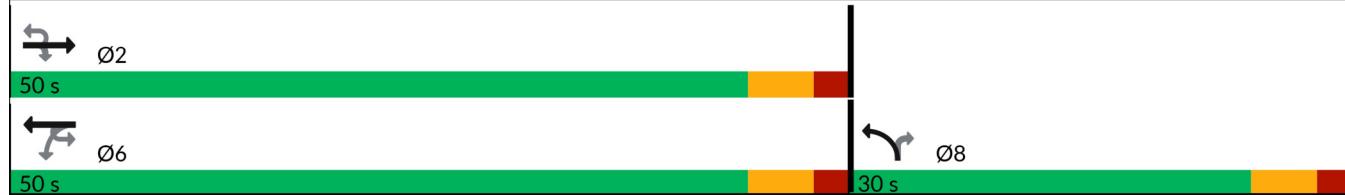
Intersection LOS: B

Intersection Capacity Utilization 62.3%

ICU Level of Service B

Analysis Period (min) 15

Splits and Phases: 2: SR 211 &amp; SR 53





| Lane Group              | EBU  | EBT  | EBR  | WBL  | WBT  | NBL  | NBR  |
|-------------------------|------|------|------|------|------|------|------|
| Lane Group Flow (vph)   | 2    | 568  | 606  | 193  | 1048 | 578  | 94   |
| v/c Ratio               | 0.01 | 0.35 | 0.58 | 0.52 | 0.64 | 0.61 | 0.21 |
| Control Delay (s/veh)   | 8.0  | 9.4  | 3.4  | 15.9 | 12.5 | 21.2 | 6.2  |
| Queue Delay             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Total Delay (s/veh)     | 8.0  | 9.4  | 3.4  | 15.9 | 12.5 | 21.2 | 6.2  |
| Queue Length 50th (ft)  | 0    | 50   | 0    | 36   | 111  | 76   | 0    |
| Queue Length 95th (ft)  | 3    | 97   | 32   | 109  | 219  | 171  | 32   |
| Internal Link Dist (ft) |      | 2207 |      |      | 2068 | 4517 |      |
| Turn Bay Length (ft)    | 290  |      | 180  | 190  |      | 260  |      |
| Base Capacity (vph)     | 330  | 2794 | 1353 | 640  | 2821 | 1607 | 696  |
| Starvation Cap Reductn  | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Spillback Cap Reductn   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Storage Cap Reductn     | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Reduced v/c Ratio       | 0.01 | 0.20 | 0.45 | 0.30 | 0.37 | 0.36 | 0.14 |

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#### Intersection Summary

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## HCM 7th Signalized Intersection Summary

2: SR 211 &amp; SR 53

06/03/2025



| Movement                                   | EBU | EBT  | EBR  | WBU | WBL  | WBT  | NBL  | NBR  |
|--|-----|------|------|-----|------|------|------|------|
| Lane Configurations                        | 0   | ↑↑   | ↑    |     | ↑    | ↑↑   | ↑↑   | ↑    |
| Traffic Volume (veh/h)                     | 2   | 483  | 515  | 1   | 184  | 1006 | 538  | 87   |
| Future Volume (veh/h)                      | 2   | 483  | 515  | 1   | 184  | 1006 | 538  | 87   |
| Initial Q (Q <sub>b</sub> ), veh           |     | 0    | 0    |     | 0    | 0    | 0    | 0    |
| Lane Width Adj.                            |     | 1.00 | 1.00 |     | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT)                        |     |      | 1.00 |     | 1.00 |      | 1.00 | 1.00 |
| Parking Bus, Adj                           |     | 1.00 | 1.00 |     | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach                      |     | No   |      |     | No   | No   | No   | No   |
| Adj Sat Flow, veh/h/ln                     |     | 1796 | 1796 |     | 1781 | 1811 | 1856 | 1633 |
| Adj Flow Rate, veh/h                       |     | 568  | 606  |     | 192  | 1048 | 578  | 94   |
| Peak Hour Factor                           |     | 0.85 | 0.85 |     | 0.96 | 0.96 | 0.93 | 0.93 |
| Percent Heavy Veh, %                       |     | 7    | 7    |     | 8    | 6    | 3    | 18   |
| Cap, veh/h                                 |     | 2020 | 901  |     | 345  | 2036 | 755  | 305  |
| Arrive On Green                            |     | 0.59 | 0.59 |     | 0.59 | 0.59 | 0.22 | 0.22 |
| Sat Flow, veh/h                            |     | 3503 | 1522 |     | 455  | 3532 | 3428 | 1384 |
| Grp Volume(v), veh/h                       |     | 568  | 606  |     | 192  | 1048 | 578  | 94   |
| Grp Sat Flow(s), veh/h/ln                  |     | 1706 | 1522 |     | 455  | 1721 | 1714 | 1384 |
| Q Serve(g_s), s                            |     | 5.2  | 17.2 |     | 22.8 | 11.4 | 10.1 | 3.6  |
| Cycle Q Clear(g_c), s                      |     | 5.2  | 17.2 |     | 28.0 | 11.4 | 10.1 | 3.6  |
| Prop In Lane                               |     |      | 1.00 |     | 1.00 | 1.00 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h                     |     | 2020 | 901  |     | 345  | 2036 | 755  | 305  |
| V/C Ratio(X)                               |     | 0.28 | 0.67 |     | 0.56 | 0.51 | 0.77 | 0.31 |
| Avail Cap(c_a), veh/h                      |     | 2351 | 1049 |     | 389  | 2370 | 1288 | 520  |
| HCM Platoon Ratio                          |     | 1.00 | 1.00 |     | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)                         |     | 1.00 | 1.00 |     | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh                   |     | 6.4  | 8.8  |     | 13.2 | 7.7  | 23.4 | 20.8 |
| Incr Delay (d2), s/veh                     |     | 0.1  | 1.4  |     | 1.4  | 0.2  | 1.7  | 0.6  |
| Initial Q Delay(d3), s/veh                 |     | 0.0  | 0.0  |     | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln                  |     | 1.3  | 4.0  |     | 1.8  | 2.8  | 3.8  | 1.1  |
| Unsig. Movement Delay, s/veh               |     |      |      |     |      |      |      |      |
| LnGrp Delay(d), s/veh                      |     | 6.5  | 10.2 |     | 14.7 | 7.9  | 25.0 | 21.4 |
| LnGrp LOS                                  |     | A    | B    |     | B    | A    | C    | C    |
| Approach Vol, veh/h                        |     | 1174 |      |     | 1240 | 672  |      |      |
| Approach Delay, s/veh                      |     | 8.4  |      |     | 8.9  | 24.5 |      |      |
| Approach LOS                               |     | A    |      |     | A    | C    |      |      |
| Timer - Assigned Phs                       |     | 2    |      |     | 6    |      | 8    |      |
| Phs Duration (G+Y+R <sub>c</sub> ), s      |     | 43.8 |      |     | 43.8 |      | 20.1 |      |
| Change Period (Y+R <sub>c</sub> ), s       |     | 6.0  |      |     | 6.0  |      | 6.0  |      |
| Max Green Setting (Gmax), s                |     | 44.0 |      |     | 44.0 |      | 24.0 |      |
| Max Q Clear Time (g_c+l1), s               |     | 19.2 |      |     | 30.0 |      | 12.1 |      |
| Green Ext Time (p_c), s                    |     | 6.3  |      |     | 7.8  |      | 2.0  |      |
| <b>Intersection Summary</b>                |     |      |      |     |      |      |      |      |
| HCM 7th Control Delay, s/veh               |     |      | 12.1 |     |      |      |      |      |
| HCM 7th LOS                                |     |      | B    |     |      |      |      |      |
| <b>Notes</b>                               |     |      |      |     |      |      |      |      |
| User approved ignoring U-Turning movement. |     |      |      |     |      |      |      |      |

| Intersection                |          |          |          |          |          |          |
|-----------------------------|----------|----------|----------|----------|----------|----------|
| Approach                    | EB       | WB       | NB       | SB       |          |          |
| Entry Lanes                 | 1        | 1        | 2        | 2        |          |          |
| Conflicting Circle Lanes    | 2        | 2        | 2        | 2        |          |          |
| Adj Approach Flow, veh/h    | 10       | 298      | 762      | 861      |          |          |
| Demand Flow Rate, veh/h     | 10       | 315      | 800      | 917      |          |          |
| Vehicles Circulating, veh/h | 1098     | 609      | 133      | 185      |          |          |
| Vehicles Exiting, veh/h     | 4        | 324      | 975      | 739      |          |          |
| Ped Vol Crossing Leg, #/h   | 0        | 0        | 0        | 0        |          |          |
| Ped Cap Adj                 | 1.000    | 1.000    | 1.000    | 1.000    |          |          |
| Approach Delay, s/veh       | 6.7      | 9.0      | 6.2      | 7.3      |          |          |
| Approach LOS                | A        | A        | A        | A        |          |          |
| Lane                        | Left     | Left     | Left     | Right    | Left     | Right    |
| Designated Moves            | LTR      | L        | LT       | TR       | LT       | TR       |
| Assumed Moves               | LTR      | L        | LT       | TR       | LT       | TR       |
| RT Channelized              |          |          |          |          |          |          |
| Lane Util                   | 1.000    | 1.000    | 0.470    | 0.530    | 0.470    | 0.530    |
| Follow-Up Headway, s        | 2.535    | 2.535    | 2.667    | 2.535    | 2.667    | 2.535    |
| Critical Headway, s         | 4.328    | 4.328    | 4.645    | 4.328    | 4.645    | 4.328    |
| A (Intercept)               | 1420     | 1420     | 1350     | 1420     | 1350     | 1420     |
| B (Slope)                   | 8.501e-4 | 8.501e-4 | 9.199e-4 | 8.501e-4 | 9.199e-4 | 8.501e-4 |
| Entry Flow, veh/h           | 10       | 315      | 376      | 424      | 431      | 486      |
| Cap Entry Lane, veh/h       | 558      | 846      | 1194     | 1268     | 1139     | 1213     |
| Entry HV Adj Factor         | 1.000    | 0.946    | 0.953    | 0.953    | 0.939    | 0.939    |
| Flow Entry, veh/h           | 10       | 298      | 358      | 404      | 405      | 457      |
| Cap Entry, veh/h            | 558      | 801      | 1138     | 1209     | 1070     | 1140     |
| V/C Ratio                   | 0.018    | 0.372    | 0.315    | 0.334    | 0.379    | 0.401    |
| Control Delay, s/veh        | 6.7      | 9.0      | 6.2      | 6.1      | 7.3      | 7.3      |
| LOS                         | A        | A        | A        | A        | A        | A        |
| 95th %tile Queue, veh       | 0        | 2        | 1        | 1        | 2        | 2        |

## Timings

1: SR 211 &amp; SR 347/Bayberry Dr

06/03/2025

| Lane Group             | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations    | ↑↑    | ↑     | ↑↑↑   | ↑     | ↑     | ↑     | ↑↑    | ↑↑    | ↑     | ↑     | ↑↑    | ↑     |
| Traffic Volume (vph)   | 421   | 147   | 623   | 52    | 100   | 30    | 411   | 611   | 17    | 30    | 597   | 358   |
| Future Volume (vph)    | 421   | 147   | 623   | 52    | 100   | 30    | 411   | 611   | 17    | 30    | 597   | 358   |
| Turn Type              | pm+pt | NA    | pm+ov | Perm  | NA    | Perm  | Prot  | NA    | Perm  | Prot  | NA    | Perm  |
| Protected Phases       | 3     | 8     | 1     |       | 4     |       | 1     | 6     |       | 5     | 2     |       |
| Permitted Phases       | 8     |       | 8     | 4     |       | 4     |       |       | 6     |       | 2     |       |
| Detector Phase         | 3     | 8     | 1     | 4     | 4     | 4     | 1     | 6     | 6     | 5     | 2     | 2     |
| Switch Phase           |       |       |       |       |       |       |       |       |       |       |       |       |
| Minimum Initial (s)    | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   |
| Minimum Split (s)      | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  |
| Total Split (s)        | 20.0  | 40.0  | 45.0  | 20.0  | 20.0  | 20.0  | 45.0  | 80.0  | 80.0  | 20.0  | 55.0  | 55.0  |
| Total Split (%)        | 14.3% | 28.6% | 32.1% | 14.3% | 14.3% | 14.3% | 32.1% | 57.1% | 57.1% | 14.3% | 39.3% | 39.3% |
| Yellow Time (s)        | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)       | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| Lost Time Adjust (s)   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Lost Time (s)    | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   |
| Lead/Lag               | Lead  |       | Lead  | Lag   | Lag   | Lag   | Lead  | Lead  | Lead  | Lag   | Lag   | Lag   |
| Lead-Lag Optimize?     | Yes   |       | Yes   |
| Recall Mode            | None  | C-Max | C-Max | None  | C-Max | C-Max |
| Act Effect Green (s)   | 32.3  | 32.3  | 64.8  | 12.3  | 12.3  | 12.3  | 26.5  | 83.7  | 83.7  | 10.9  | 63.2  | 63.2  |
| Actuated g/C Ratio     | 0.23  | 0.23  | 0.46  | 0.09  | 0.09  | 0.09  | 0.19  | 0.60  | 0.60  | 0.08  | 0.45  | 0.45  |
| v/c Ratio              | 0.90  | 0.37  | 0.52  | 0.52  | 0.68  | 0.11  | 0.74  | 0.33  | 0.02  | 0.24  | 0.42  | 0.44  |
| Control Delay (s/veh)  | 69.9  | 47.6  | 20.2  | 77.4  | 82.3  | 0.8   | 60.7  | 16.4  | 0.1   | 63.0  | 28.1  | 5.8   |
| Queue Delay            | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Delay (s/veh)    | 69.9  | 47.6  | 20.2  | 77.4  | 82.3  | 0.8   | 60.7  | 16.4  | 0.1   | 63.0  | 28.1  | 5.8   |
| LOS                    | E     | D     | C     | E     | F     | A     | E     | B     | A     | E     | C     | A     |
| Approach Delay (s/veh) |       | 41.2  |       |       | 67.5  |       |       | 33.6  |       |       | 21.1  |       |
| Approach LOS           |       | D     |       |       | E     |       |       | C     |       |       | C     |       |

## Intersection Summary

Cycle Length: 140

Actuated Cycle Length: 140

Offset: 0 (0%), Referenced to phase 2:SBT and 6:NBT, Start of Green

Natural Cycle: 60

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.90

Intersection Signal Delay (s/veh): 34.4

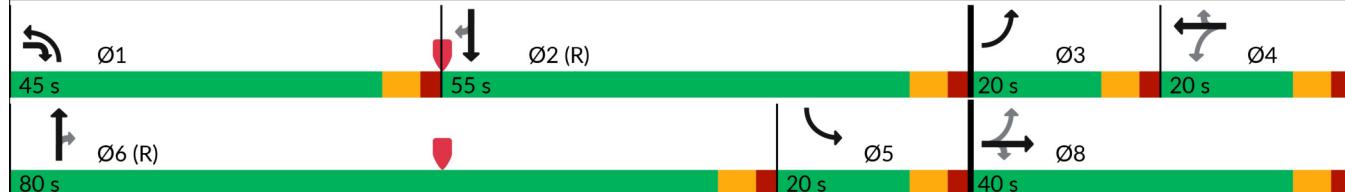
Intersection LOS: C

Intersection Capacity Utilization 65.5%

ICU Level of Service C

Analysis Period (min) 15

Splits and Phases: 1: SR 211 &amp; SR 347/Bayberry Dr



## Queues

1: SR 211 &amp; SR 347/Bayberry Dr

06/03/2025



| Lane Group              | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Group Flow (vph)   | 448  | 156  | 663  | 57   | 110  | 33   | 467  | 694  | 19   | 33   | 649  | 389  |
| v/c Ratio               | 0.90 | 0.37 | 0.52 | 0.52 | 0.68 | 0.11 | 0.74 | 0.33 | 0.02 | 0.24 | 0.42 | 0.44 |
| Control Delay (s/veh)   | 69.9 | 47.6 | 20.2 | 77.4 | 82.3 | 0.8  | 60.7 | 16.4 | 0.1  | 63.0 | 28.1 | 5.8  |
| Queue Delay             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Total Delay (s/veh)     | 69.9 | 47.6 | 20.2 | 77.4 | 82.3 | 0.8  | 60.7 | 16.4 | 0.1  | 63.0 | 28.1 | 5.8  |
| Queue Length 50th (ft)  | 186  | 119  | 174  | 50   | 98   | 0    | 208  | 188  | 0    | 28   | 211  | 20   |
| Queue Length 95th (ft)  | #269 | 186  | 211  | 99   | 163  | 0    | 247  | 229  | 0    | 64   | 290  | 99   |
| Internal Link Dist (ft) |      | 1881 |      |      | 827  |      |      | 1407 |      |      | 3359 |      |
| Turn Bay Length (ft)    | 360  |      | 390  |      |      | 100  | 610  |      |      | 330  | 590  |      |
| Base Capacity (vph)     | 500  | 448  | 1488 | 125  | 184  | 309  | 929  | 2074 | 886  | 180  | 1552 | 886  |
| Starvation Cap Reductn  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Spillback Cap Reductn   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Storage Cap Reductn     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Reduced v/c Ratio       | 0.90 | 0.35 | 0.45 | 0.46 | 0.60 | 0.11 | 0.50 | 0.33 | 0.02 | 0.18 | 0.42 | 0.44 |

## Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

## HCM 7th Signalized Intersection Summary

1: SR 211 &amp; SR 347/Bayberry Dr

06/03/2025

| Movement   | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|--|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations  | ↑↑   | ↑    | ↑↑↑  | ↑    | ↑    | ↑    | ↑↑   | ↑↑   | ↑    | ↑    | ↑↑   | ↑↑   |
| Traffic Volume (veh/h)   | 421  | 147  | 623  | 52   | 100  | 30   | 411  | 611  | 17   | 30   | 597  | 358  |
| Future Volume (veh/h)  | 421  | 147  | 623  | 52   | 100  | 30   | 411  | 611  | 17   | 30   | 597  | 358  |
| Initial Q (Q <sub>b</sub> ), veh   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Lane Width Adj.  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT)  | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No   |      |
| Adj Sat Flow, veh/h/ln   | 1811 | 1856 | 1737 | 1900 | 1856 | 1900 | 1826 | 1841 | 1678 | 1900 | 1826 | 1826 |
| Adj Flow Rate, veh/h   | 448  | 156  | 663  | 57   | 110  | 33   | 467  | 694  | 0    | 33   | 649  | 389  |
| Peak Hour Factor   | 0.94 | 0.94 | 0.94 | 0.91 | 0.91 | 0.91 | 0.88 | 0.88 | 0.88 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 6    | 3    | 11   | 0    | 3    | 0    | 5    | 4    | 15   | 0    | 5    | 5    |
| Cap, veh/h   | 532  | 446  | 1037 | 117  | 181  | 157  | 540  | 1849 |      | 186  | 1634 | 729  |
| Arrive On Green  | 0.10 | 0.24 | 0.24 | 0.10 | 0.10 | 0.10 | 0.16 | 0.53 | 0.00 | 0.10 | 0.47 | 0.47 |
| Sat Flow, veh/h  | 3346 | 1856 | 2591 | 678  | 1856 | 1610 | 3374 | 3497 | 1422 | 1810 | 3469 | 1547 |
| Grp Volume(v), veh/h   | 448  | 156  | 663  | 57   | 110  | 33   | 467  | 694  | 0    | 33   | 649  | 389  |
| Grp Sat Flow(s), veh/h/ln  | 1673 | 1856 | 1295 | 678  | 1856 | 1610 | 1687 | 1749 | 1422 | 1810 | 1735 | 1547 |
| Q Serve(g_s), s  | 14.0 | 9.8  | 28.9 | 11.6 | 8.0  | 2.1  | 18.9 | 16.3 | 0.0  | 2.3  | 17.0 | 24.9 |
| Cycle Q Clear(g_c), s  | 14.0 | 9.8  | 28.9 | 11.6 | 8.0  | 2.1  | 18.9 | 16.3 | 0.0  | 2.3  | 17.0 | 24.9 |
| Prop In Lane   | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 |
| Lane Grp Cap(c), veh/h   | 532  | 446  | 1037 | 117  | 181  | 157  | 540  | 1849 |      | 186  | 1634 | 729  |
| V/C Ratio(X)   | 0.84 | 0.35 | 0.64 | 0.49 | 0.61 | 0.21 | 0.86 | 0.38 |      | 0.18 | 0.40 | 0.53 |
| Avail Cap(c_a), veh/h  | 532  | 451  | 1044 | 119  | 186  | 161  | 940  | 1849 |      | 186  | 1634 | 729  |
| HCM Platoon Ratio  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)   | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh   | 52.5 | 44.1 | 33.8 | 62.3 | 60.6 | 36.5 | 57.3 | 19.4 | 0.0  | 57.4 | 24.1 | 26.2 |
| Incr Delay (d2), s/veh   | 11.6 | 0.5  | 1.3  | 3.1  | 5.4  | 0.7  | 4.3  | 0.6  | 0.0  | 0.5  | 0.7  | 2.8  |
| Initial Q Delay(d3), s/veh   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 2.2  | 4.5  | 9.0  | 2.1  | 4.1  | 1.1  | 8.2  | 6.5  | 0.0  | 1.1  | 7.0  | 9.4  |
| Unsig. Movement Delay, s/veh   |      |      |      |      |      |      |      |      |      |      |      |      |
| LnGrp Delay(d), s/veh  | 64.1 | 44.6 | 35.1 | 65.3 | 66.1 | 37.1 | 61.6 | 20.0 | 0.0  | 57.9 | 24.8 | 29.0 |
| LnGrp LOS  | E    | D    | D    | E    | E    | D    | E    | B    |      | E    | C    | C    |
| Approach Vol, veh/h  |      | 1267 |      |      | 200  |      |      | 1161 |      |      | 1071 |      |
| Approach Delay, s/veh  |      | 46.5 |      |      | 61.1 |      |      | 36.7 |      |      | 27.3 |      |
| Approach LOS   |      | D    |      |      | E    |      |      | D    |      |      | C    |      |
| Timer - Assigned Phs   | 1    | 2    | 3    | 4    | 5    | 6    |      | 8    |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 28.4 | 71.9 | 20.0 | 19.6 | 20.4 | 80.0 |      | 39.6 |      |      |      |      |
| Change Period (Y+Rc), s  | 6.0  | 6.0  | 6.0  | 6.0  | 6.0  | 6.0  |      | 6.0  |      |      |      |      |
| Max Green Setting (Gmax), s  | 39.0 | 49.0 | 14.0 | 14.0 | 14.0 | 74.0 |      | 34.0 |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 20.9 | 26.9 | 16.0 | 13.6 | 4.3  | 18.3 |      | 30.9 |      |      |      |      |
| Green Ext Time (p_c), s  | 1.5  | 5.6  | 0.0  | 0.0  | 0.0  | 5.0  |      | 1.2  |      |      |      |      |
| <b>Intersection Summary</b>  |      |      |      |      |      |      |      |      |      |      |      |      |
| HCM 7th Control Delay, s/veh   |      |      | 38.7 |      |      |      |      |      |      |      |      |      |
| HCM 7th LOS  |      |      | D    |      |      |      |      |      |      |      |      |      |
| <b>Notes</b>   |      |      |      |      |      |      |      |      |      |      |      |      |
| Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay. |      |      |      |      |      |      |      |      |      |      |      |      |



| Lane Group             | EBU   | EBT   | EBR   | WBU   | WBL   | WBT   | NBL   | NBR   |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations    | 2     | 2     | 2     | 1     | 1     | 2     | 2     | 1     |
| Traffic Volume (vph)   | 986   | 507   | 122   | 736   | 559   | 186   |       |       |
| Future Volume (vph)    | 986   | 507   | 122   | 736   | 559   | 186   |       |       |
| Turn Type              | Perm  | NA    | Perm  | Perm  | Perm  | NA    | Prot  | Perm  |
| Protected Phases       |       | 2     |       |       |       | 6     | 8     |       |
| Permitted Phases       | 2     |       | 2     | 6     | 6     |       | 8     |       |
| Detector Phase         | 2     | 2     | 2     | 6     | 6     | 6     | 8     | 8     |
| Switch Phase           |       |       |       |       |       |       |       |       |
| Minimum Initial (s)    | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |
| Minimum Split (s)      | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  | 24.0  |
| Total Split (s)        | 50.0  | 50.0  | 50.0  | 50.0  | 50.0  | 50.0  | 30.0  | 30.0  |
| Total Split (%)        | 62.5% | 62.5% | 62.5% | 62.5% | 62.5% | 62.5% | 37.5% | 37.5% |
| Yellow Time (s)        | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)       | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| Lost Time Adjust (s)   | 0.0   | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Lost Time (s)    | 6.0   | 6.0   | 6.0   |       | 6.0   | 6.0   | 6.0   | 6.0   |
| Lead/Lag               |       |       |       |       |       |       |       |       |
| Lead-Lag Optimize?     |       |       |       |       |       |       |       |       |
| Recall Mode            | Min   | Min   | Min   | Min   | Min   | Min   | None  | None  |
| Act Effect Green (s)   | 34.4  | 34.4  | 34.4  |       | 34.4  | 34.4  | 17.4  | 17.4  |
| Actuated g/C Ratio     | 0.53  | 0.53  | 0.53  |       | 0.53  | 0.53  | 0.27  | 0.27  |
| v/c Ratio              | 0.01  | 0.64  | 0.55  |       | 0.76  | 0.42  | 0.66  | 0.48  |
| Control Delay (s/veh)  | 8.0   | 12.8  | 3.0   |       | 45.1  | 10.0  | 25.9  | 19.4  |
| Queue Delay            | 0.0   | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Delay (s/veh)    | 8.0   | 12.8  | 3.0   |       | 45.1  | 10.0  | 25.9  | 19.4  |
| LOS                    | A     | B     | A     |       | D     | A     | C     | B     |
| Approach Delay (s/veh) |       | 9.5   |       |       |       | 15.0  | 24.3  |       |
| Approach LOS           |       | A     |       |       |       | B     | C     |       |

## Intersection Summary

Cycle Length: 80

Actuated Cycle Length: 64.5

Natural Cycle: 65

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.76

Intersection Signal Delay (s/veh): 14.3

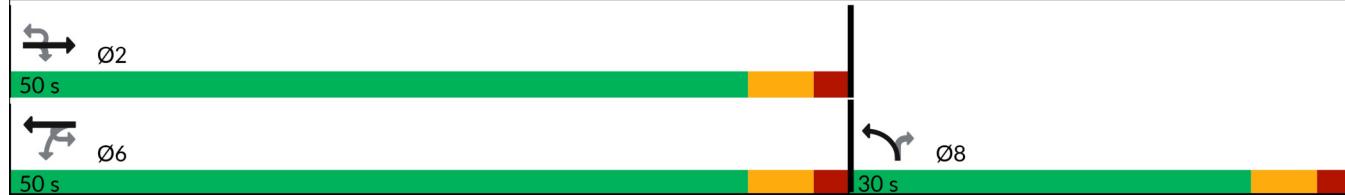
Intersection LOS: B

Intersection Capacity Utilization 65.0%

ICU Level of Service C

Analysis Period (min) 15

Splits and Phases: 2: SR 211 &amp; SR 53





| Lane Group              | EBU  | EBT  | EBR  | WBL  | WBT  | NBL  | NBR  |
|-------------------------|------|------|------|------|------|------|------|
| Lane Group Flow (vph)   | 2    | 1160 | 596  | 128  | 767  | 601  | 200  |
| v/c Ratio               | 0.01 | 0.64 | 0.55 | 0.76 | 0.42 | 0.66 | 0.48 |
| Control Delay (s/veh)   | 8.0  | 12.8 | 3.0  | 45.1 | 10.0 | 25.9 | 19.4 |
| Queue Delay             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Total Delay (s/veh)     | 8.0  | 12.8 | 3.0  | 45.1 | 10.0 | 25.9 | 19.4 |
| Queue Length 50th (ft)  | 0    | 160  | 0    | 37   | 90   | 118  | 47   |
| Queue Length 95th (ft)  | 3    | 234  | 32   | #149 | 147  | 182  | 112  |
| Internal Link Dist (ft) |      | 2207 |      |      | 2068 | 4517 |      |
| Turn Bay Length (ft)    | 290  |      | 180  | 190  |      | 260  |      |
| Base Capacity (vph)     | 456  | 2418 | 1250 | 227  | 2441 | 1343 | 580  |
| Starvation Cap Reductn  | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Spillback Cap Reductn   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Storage Cap Reductn     | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Reduced v/c Ratio       | 0.00 | 0.48 | 0.48 | 0.56 | 0.31 | 0.45 | 0.34 |

## Intersection Summary

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

## HCM 7th Signalized Intersection Summary

2: SR 211 &amp; SR 53

06/03/2025



| Movement                                   | EBU | EBT  | EBR  | WBU  | WBL  | WBT  | NBL  | NBR  |
|--|-----|------|------|------|------|------|------|------|
| Lane Configurations                        | ↑   | ↑↑   | ↑    |      | ↑    | ↑↑   | ↑↑   | ↑    |
| Traffic Volume (veh/h)                     | 2   | 986  | 507  | 1    | 122  | 736  | 559  | 186  |
| Future Volume (veh/h)                      | 2   | 986  | 507  | 1    | 122  | 736  | 559  | 186  |
| Initial Q (Q <sub>b</sub> ), veh           |     | 0    | 0    |      | 0    | 0    | 0    | 0    |
| Lane Width Adj.                            |     | 1.00 | 1.00 |      | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT)                        |     |      |      |      | 1.00 | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj                           |     | 1.00 | 1.00 |      | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach                      |     | No   |      |      | No   | No   | No   | No   |
| Adj Sat Flow, veh/h/ln                     |     | 1796 | 1796 |      | 1781 | 1811 | 1856 | 1633 |
| Adj Flow Rate, veh/h                       |     | 1160 | 596  |      | 127  | 767  | 601  | 200  |
| Peak Hour Factor                           |     | 0.85 | 0.85 |      | 0.96 | 0.96 | 0.93 | 0.93 |
| Percent Heavy Veh, %                       |     | 7    | 7    |      | 8    | 6    | 3    | 18   |
| Cap, veh/h                                 |     | 2082 | 929  |      | 206  | 2099 | 766  | 309  |
| Arrive On Green                            |     | 0.61 | 0.61 |      | 0.61 | 0.61 | 0.22 | 0.22 |
| Sat Flow, veh/h                            |     | 3503 | 1522 |      | 260  | 3532 | 3428 | 1384 |
| Grp Volume(v), veh/h                       |     | 1160 | 596  |      | 127  | 767  | 601  | 200  |
| Grp Sat Flow(s), veh/h/ln                  |     | 1706 | 1522 |      | 260  | 1721 | 1714 | 1384 |
| Q Serve(g_s), s                            |     | 14.5 | 18.1 |      | 29.5 | 8.1  | 11.9 | 9.5  |
| Cycle Q Clear(g_c), s                      |     | 14.5 | 18.1 |      | 44.0 | 8.1  | 11.9 | 9.5  |
| Prop In Lane                               |     |      |      | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h                     |     | 2082 | 929  |      | 206  | 2099 | 766  | 309  |
| V/C Ratio(X)                               |     | 0.56 | 0.64 |      | 0.62 | 0.37 | 0.78 | 0.65 |
| Avail Cap(c_a), veh/h                      |     | 2082 | 929  |      | 206  | 2099 | 1141 | 461  |
| HCM Platoon Ratio                          |     | 1.00 | 1.00 |      | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)                         |     | 1.00 | 1.00 |      | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh                   |     | 8.3  | 9.0  |      | 23.7 | 7.1  | 26.4 | 25.4 |
| Incr Delay (d2), s/veh                     |     | 0.3  | 1.5  |      | 5.4  | 0.1  | 2.2  | 2.3  |
| Initial Q Delay(d3), s/veh                 |     | 0.0  | 0.0  |      | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln                  |     | 3.8  | 4.6  |      | 2.4  | 2.1  | 4.6  | 3.0  |
| Unsig. Movement Delay, s/veh               |     |      |      |      |      |      |      |      |
| LnGrp Delay(d), s/veh                      |     | 8.6  | 10.5 |      | 29.1 | 7.2  | 28.5 | 27.7 |
| LnGrp LOS                                  |     | A    | B    |      | C    | A    | C    | C    |
| Approach Vol, veh/h                        |     | 1756 |      |      |      | 894  | 801  |      |
| Approach Delay, s/veh                      |     | 9.3  |      |      |      | 10.3 | 28.3 |      |
| Approach LOS                               |     | A    |      |      |      | B    | C    |      |
| Timer - Assigned Phs                       |     | 2    |      |      |      | 6    |      | 8    |
| Phs Duration (G+Y+R <sub>c</sub> ), s      |     | 50.0 |      |      |      | 50.0 |      | 22.1 |
| Change Period (Y+R <sub>c</sub> ), s       |     | 6.0  |      |      |      | 6.0  |      | 6.0  |
| Max Green Setting (Gmax), s                |     | 44.0 |      |      |      | 44.0 |      | 24.0 |
| Max Q Clear Time (g_c+l1), s               |     | 20.1 |      |      |      | 46.0 |      | 13.9 |
| Green Ext Time (p_c), s                    |     | 11.4 |      |      |      | 0.0  |      | 2.2  |
| <b>Intersection Summary</b>                |     |      |      |      |      |      |      |      |
| HCM 7th Control Delay, s/veh               |     |      | 14.0 |      |      |      |      |      |
| HCM 7th LOS                                |     |      | B    |      |      |      |      |      |
| <b>Notes</b>                               |     |      |      |      |      |      |      |      |
| User approved ignoring U-Turning movement. |     |      |      |      |      |      |      |      |

| Intersection                |          |          |          |          |          |          |
|-----------------------------|----------|----------|----------|----------|----------|----------|
| Approach                    | EB       | WB       | NB       | SB       |          |          |
| Entry Lanes                 | 1        | 1        | 2        | 2        |          |          |
| Conflicting Circle Lanes    | 2        | 2        | 2        | 2        |          |          |
| Adj Approach Flow, veh/h    | 8        | 347      | 952      | 649      |          |          |
| Demand Flow Rate, veh/h     | 8        | 366      | 999      | 692      |          |          |
| Vehicles Circulating, veh/h | 899      | 788      | 146      | 217      |          |          |
| Vehicles Exiting, veh/h     | 10       | 357      | 761      | 937      |          |          |
| Ped Vol Crossing Leg, #/h   | 0        | 0        | 0        | 0        |          |          |
| Ped Cap Adj                 | 1.000    | 1.000    | 1.000    | 1.000    |          |          |
| Approach Delay, s/veh       | 5.6      | 12.9     | 7.3      | 6.3      |          |          |
| Approach LOS                | A        | B        | A        | A        |          |          |
| Lane                        | Left     | Left     | Left     | Right    | Left     | Right    |
| Designated Moves            | LTR      | L        | LT       | TR       | LT       | TR       |
| Assumed Moves               | LTR      | L        | LT       | TR       | LT       | TR       |
| RT Channelized              |          |          |          |          |          |          |
| Lane Util                   | 1.000    | 1.000    | 0.470    | 0.530    | 0.470    | 0.530    |
| Follow-Up Headway, s        | 2.535    | 2.535    | 2.667    | 2.535    | 2.667    | 2.535    |
| Critical Headway, s         | 4.328    | 4.328    | 4.645    | 4.328    | 4.645    | 4.328    |
| A (Intercept)               | 1420     | 1420     | 1350     | 1420     | 1350     | 1420     |
| B (Slope)                   | 8.501e-4 | 8.501e-4 | 9.199e-4 | 8.501e-4 | 9.199e-4 | 8.501e-4 |
| Entry Flow, veh/h           | 8        | 366      | 470      | 529      | 325      | 367      |
| Cap Entry Lane, veh/h       | 661      | 727      | 1180     | 1254     | 1106     | 1181     |
| Entry HV Adj Factor         | 1.000    | 0.948    | 0.952    | 0.954    | 0.939    | 0.937    |
| Flow Entry, veh/h           | 8        | 347      | 447      | 505      | 305      | 344      |
| Cap Entry, veh/h            | 661      | 689      | 1123     | 1196     | 1038     | 1107     |
| V/C Ratio                   | 0.012    | 0.504    | 0.398    | 0.422    | 0.294    | 0.311    |
| Control Delay, s/veh        | 5.6      | 12.9     | 7.3      | 7.3      | 6.4      | 6.3      |
| LOS                         | A        | B        | A        | A        | A        | A        |
| 95th %tile Queue, veh       | 0        | 3        | 2        | 2        | 1        | 1        |

## APPENDIX D: TURN LANE EVALUATIONS

## GDOT Turn Lane Evaluations

| ID | Intersection           | Movement / Turn Lane | Turn Volume | GDOT Criteria | GDOT Criteria met? | Personal Vehicle Distribution | Truck Distribution | Volume | Threshold |
|----|------------------------|----------------------|-------------|---------------|--------------------|-------------------------------|--------------------|--------|-----------|
| 3  | SR 211 & Site Driveway | SBL                  | 1608 LT/Day | 250 LT/Day    | YES                | 40%                           | 55%                | 1,608  | 250       |
|    |                        | NBR                  | 2237 RT/Day | 75 RT/Day     | YES                | 60%                           | 45%                | 2,237  | 75        |
|    |                        | NBR                  | 58 LT/Day   | 250 LT/Day    | NO                 | 50%                           | 0%                 | 58     | 250       |

|                   | TOTAL        | IN           | OUT          |
|-------------------|--------------|--------------|--------------|
| Personal Vehicles | <b>Daily</b> | <b>6,754</b> | <b>3,377</b> |
|                   | AM Peak Hour | 503          | 245          |
|                   | PM Peak Hour | 558          | 263          |
| Trucks            | <b>Daily</b> | <b>936</b>   | <b>468</b>   |
|                   | AM Peak Hour | 34           | 18           |
|                   | PM Peak Hour | 52           | 27           |

### 4.9.1.1 Minimum Requirements for Right Turn Deceleration Lanes

Right turn deceleration lanes must be constructed at no cost to the Department if the daily site generated Right Turn Volumes (RTV) based on ITE Trip Generation (assuming a reasonable distribution of entry volumes) meet or exceed the values shown in Table 4-6. Passing lane sections fall under the criteria for two or more lanes.

| Posted Speed   | 2 Lane Routes |               | More than 2 Lanes on Main Road |               |
|----------------|---------------|---------------|--------------------------------|---------------|
|                | AADT          | AADT          | AADT                           | AADT          |
| < 6000         | >=6000        | <10000        | >=10000                        |               |
| 35 MPH or Less | 200 RTV a day | 100 RTV a day | 200 RTV a day                  | 100 RTV a day |
| 40 to 50 MPH   | 150 RTV a day | 75 RTV a day  | 150 RTV a day                  | 75 RTV a day  |
| 55 to 60 MPH   | 100 RTV a day | 50 RTV a day  | 100 RTV a day                  | 50 RTV a day  |
| >= 65 MPH      | Always        | Always        | Always                         | Always        |

Table 4-6 Minimum Volumes Requiring Right Turn Lanes

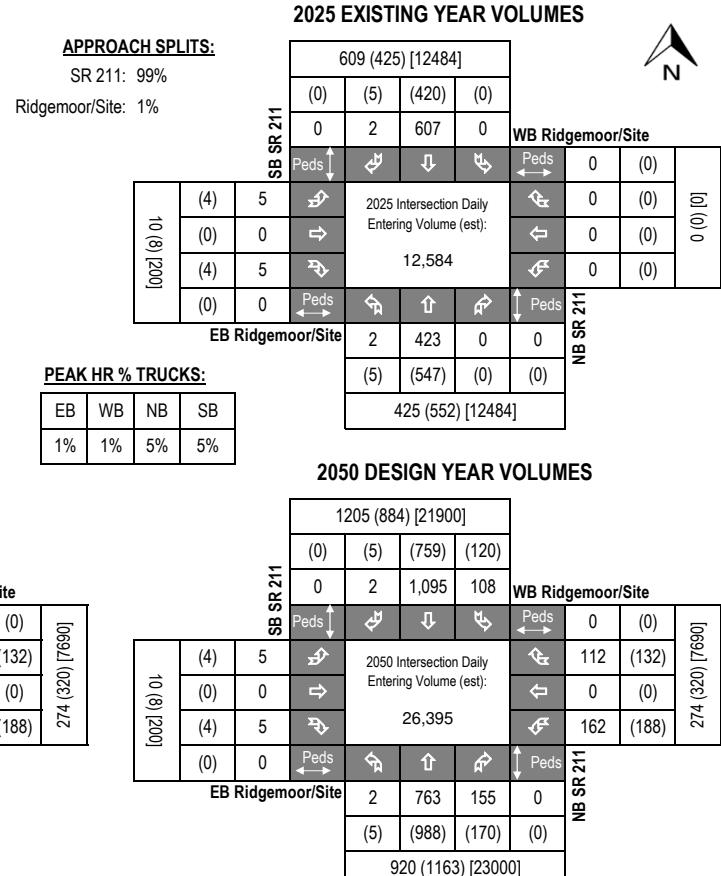
### Condition 1

| LEFT TURN REQUIREMENTS-FULL CONSTRUCTION |               |               |                                |               |
|--|---------------|---------------|--------------------------------|---------------|
| Posted Speed                             | 2 Lane Routes |               | More than 2 Lanes on Main Road |               |
|  | ADT           | ADT           | ADT                            | ADT           |
| <6,000                                   | >=6,000       | <10,000       | >=10,000                       |               |
| 35 MPH or Less                           | 300 LTV a day | 200 LTV a day | 400 LTV a day                  | 300 LTV a day |
| 40 to 50 MPH                             | 250 LTV a day | 175 LTV a day | 325 LTV a day                  | 250 LTV a day |
| >= 55 MPH                                | 200 LTV a day | 150 LTV a day | 250 LTV a day                  | 200 LTV a day |

# APPENDIX E:

## INTERSECTION CONTROL EVALUATION (ICE)

|   |                           |                                |                   |              |          |
|---|---------------------------|--------------------------------|-------------------|--------------|----------|
| GDOT PI#:   | N/A                       | Request By:                    | GDOT              |              |          |
| County:   | Hall                      | GDOT District: 1 - Gainesville |                   |              |          |
| Major Road:   | SR 211                    | Road Class:                    | Minor Arterial    | Speed Limit: | 45 mph   |
| Crossing Road:  | Ridgemoor/Site            | Road Class:                    | Local             | Speed Limit: | < 35 mph |
| Major Rd Direction:   | North/South               | Area Type:                     | Suburb/Transition |              |          |
| Intersection Control:   | New Intersection or Other | Project ID:                    | N/A               |              |          |
| Prepared By:  | NV5                       | Date:                          | 4/1/2025          |              |          |
| Project Purpose: Evaluate different intersection control for a new driveway for a Mixed-Use Development of Residential & Industrial |                           |                                |                   |              |          |
| Existing Data Year:   | 2025                      |                                |                   |              |          |
| Project Opening Year:   | 2030                      |                                |                   |              |          |
| Project Design Year:  | 2050                      |                                |                   |              |          |
| Annual Growth Rate:   | 2.4%                      |                                |                   |              |          |
| K Factor*:  | 10%                       |                                |                   |              |          |
| <small>* K Factor = Proportion of average annual daily traffic occurring in the highest one hour of the day</small>                 |                           |                                |                   |              |          |
| 2030 OPENING YEAR VOLUMES   |                           |                                |                   |              |          |
| 791 (598) [14600]   |                           |                                |                   |              |          |
| (0) (5) (473) (120)   |                           |                                |                   |              |          |
| 0 0 683 108   |                           |                                |                   |              |          |
| WB Ridgemoor/Site   |                           |                                |                   |              |          |
| Peds ↑ ↗ ↓ ↘ Peds ↓ ↖ ↗ ↙   |                           |                                |                   |              |          |
| Peds 0 (0) 791 [598]  |                           |                                |                   |              |          |
| 2030 Intersection Daily Entering Volume (est): 19,045   |                           |                                |                   |              |          |
| Peds ↓ ↖ ↗ ↙ Peds ↑ ↗ ↓ ↘   |                           |                                |                   |              |          |
| Peds 112 (132) 0 (0) 274 [320] [7690]   |                           |                                |                   |              |          |
| EB Ridgemoor/Site   |                           |                                |                   |              |          |
| Peds ↑ ↗ ↓ ↘ Peds ↓ ↖ ↗ ↙   |                           |                                |                   |              |          |
| Peds 0 476 155 0 (0) 631 (791) [15600]  |                           |                                |                   |              |          |
| NB SR 211   |                           |                                |                   |              |          |
| Peds ↓ ↖ ↗ ↙ Peds ↑ ↗ ↓ ↘   |                           |                                |                   |              |          |
| Peds 162 (188) 0 274 [320] [7690]   |                           |                                |                   |              |          |
| LEGEND:   |                           |                                |                   |              |          |
| 000 = AM Peak Approach Volume   |                           |                                |                   |              |          |
| (000) = PM Peak Approach Volume   |                           |                                |                   |              |          |
| [000] = ADT Volume (Estimate)   |                           |                                |                   |              |          |



**Introduction:** In 2005, SAFETEA-LU established the Highway Safety Improvement Program (HSIP) and mandated that each state prepare a Strategic Highway Safety Plan (SHSP) to prioritize safety funding investments. Intersections quickly became a common component of most states' SHSP emphasis areas and HSIP project lists, including Georgia's SHSP. Intersection Control Evaluation (ICE) policies and procedures represent a traceable and transparent procedure to streamline the evaluation of intersection control alternatives, and further leverage safety advancements for intersection improvements beyond just the safety program. Approximately one-third of all traffic fatalities and roughly seventy five percent of all traffic crashes in Georgia occur at or adjacent to intersections. Accordingly, the Georgia SHSP includes an emphasis on enhancing intersection safety to advance the *Toward Zero Deaths* vision embraced by the Georgia Governor's Office of Highway Safety (GOHS). This ICE tool was developed to support the ICE policy, developed and adopted to help ensure that intersection investments across the entire Georgia highway system are selected, prioritized and implemented with defensible benefits for safety towards those ends.

**Tool Goal:** The goal of this ICE tool is to provide a simplified and consistent way of importing traffic, safety, cost, environmental impact and stakeholder posture data to assess and quantify intersection control improvement benefits. The tool supports the ICE policy and procedures to provide traceability, transparency, consistency and accountability when identifying and selecting an intersection control solution that both meets project purpose and reflects overall best value in terms of specific performance-based criteria.

**Requirements:** An ICE is required for any intersection improvement (e.g. new or modified intersection, widening/reconstruction or corridor project, or work accomplished through a driveway or encroachment permit that affects an intersection) where: 1) the intersection includes at least one roadway designated as a State Route (State Highway System) or as part of the National Highway System; or 2) the intersection will be designed or constructed using State or Federal funding. In certain circumstances where an ICE would otherwise be required, the requirement may be waived based on appropriate evidence presented with a written request. (See the "Waiver" tab to review criteria that may make a project waiver eligible and for instructions to submit a waiver request to the Department). An ICE is not required when the proposed work does not include any changes to the intersection design, involves only routine traffic signal timing and equipment maintenance, or for driveway permits where the driveway is not a new leg to an already existing intersection on either 1) a divided, multi-lane highway with a closed median and only right-in/right-out access or 2) an undivided roadway where the development is not required to construct left and/or right turn lanes (as per the Driveway Manual and District Traffic Engineer).

**Two-Stage Process:** A complete ICE process consists of two (2) distinct stages, and it is expected that the respective level of effort for completing both stages of ICE will correspond to the magnitude and complexity of the intersection. Prior to starting an ICE, the District Traffic Engineer and/or State Traffic Engineer should be consulted for advice on an appropriate level of effort. The Stage 1 and Stage 2 ICE forms are designed minimize required data inputs using drop-down menu choices and limiting text entry. All fields shaded grey include drop down menu choices and all fields shaded blue require data entry. All other cells in the worksheet are locked.

**Stage 1:** Stage 1 should be conducted early in the project development process and is intended to inform which alternatives are worthy of further evaluation in Stage 2. Stage 1 serves as a screening effort meant to eliminate non-competitive options and identify which alternatives merit further considerations based on their practical feasibility. Users should use good engineering judgement in responding to the seven policy questions by selecting "Yes" or "No" in the drop-down boxes. Alternatives should not be summarily eliminated without due consideration, and reasons for eliminating or advancing an alternative should be documented in the "Screening Decision Justification" column.

**Stage 2:** Stage 2 involves a more detailed and familiar evaluation of the alternatives identified in Stage 1 in order to support the selection of a preferred alternative that may be advanced to detailed design. Stage 2 data entry may require the use of external analysis tools to determine costs, operations and/or safety data that, combined with environmental and stakeholder posture data, form the basis of the ICE evaluation. A separate "CostEst" worksheet tab helps users develop pre-planning-level cost estimates for each Stage 2 alternative evaluated, and a separate Users Guide has been prepared to give guidance on Stage 1 and Stage 2 data entry. Once all data is entered, each alternative is scored and ranked, with the results reported at the bottom of the Stage 2 worksheet to inform on the best of the intersection controls evaluated for project recommendation.

**Documentation:** A complete ICE document consists of the combination of the outputs from either a completed and signed waiver form or both Stage 1 and Stage 2 worksheets (along with supporting costing and/or environmental documentation), to be included in the approved project Concept Report (or equivalent) or as a stand-alone document.

|  |   |  |     |     |     |     |     |  |  |
|--|---|--|-----|-----|-----|-----|-----|--|--|
| GDOT PI #  | N/A                                       | <p><b>Note:</b> Up to 5 alternatives may be selected and evaluated; Use this ICE Stage 1 to screen 5 or fewer alternatives to evaluate in Stage 2</p> <p>1. Does alternative address the project need in a balanced manner and in scale with the project?</p> <p>2. Does alternative improve safety performance in terms of reducing severe crashes?</p> <p>3. Does alternative incorporate safety, convenience and accessibility for pedestrians and/or bicyclists?</p> <p>4. Does alternative improve (or preserve) traffic operations (congestion, delay, reliability, etc.)?</p> <p>5. Does alternative appear feasible given the site characteristics, constraints &amp; location context?</p> <p>6. Does alternative appear feasible with respect to other project factors?</p> <p>7. Overall feasible alternative (select alternative for further evaluation in Stage 2)?</p> |     |     |     |     |     |  |  |
| Project Location:  | SR 211 @ Ridgemoor/Site                   |  |     |     |     |     |     |  |  |
| Existing Control:  | New Intersection or Other                 |  |     |     |     |     |     |  |  |
| Prepared by:   | NV5                                       |  |     |     |     |     |     |  |  |
| Date:  | 4/1/2025                                  |  |     |     |     |     |     |  |  |
| <p>Answer "Yes" or "No" to each policy question for each control type to identify which alternatives should be evaluated in the Stage 2 Decision Record; enter justification in the rightmost column</p> |   |  |     |     |     |     |     |  |  |
| <b>Intersection Alternative</b> (see "Intersections" tab for detailed description of intersection/interchange type)  |   |  |     |     |     |     |     |  |  |
| Unsignalized Intersections   | Conventional (Minor Stop)                 | Yes  | No  | No  | No  | Yes | Yes | Works with existing conditions, but future conditions propose a median |  |
|  | Conventional (All-Way Stop)               | No   | No  | No  | No  | No  | No  | Causes too much delay to SR 211  |  |
|  | Mini Roundabout                           | No   | No  | No  | No  | No  | No  | Not applicable to the widened highway                                  |  |
|  | Single Lane Roundabout                    | No   | No  | No  | No  | No  | No  | Not applicable to the widened highway                                  |  |
|  | Multilane Roundabout                      | Yes  | Yes | Yes | Yes | Yes | Yes | Safest for side street traffic; eliminates U-turns for trucks          |  |
|  | RCUT (stop control)                       | Yes  | Yes | No  | Yes | Yes | Yes | Currently proposed by PI 0007233                                       |  |
|  | RIRO w/down stream U-Turn                 | No   | No  | No  | No  | No  | No  | Not significantly different from an RCUT                               |  |
|  | High-T (unsignalized)                     | No   | No  | No  | No  | No  | No  | Out of scale of the project  |  |
|  | Offset-T Intersections                    | No   | No  | No  | No  | No  | No  | Not applicable   |  |
|  | Diamond Interch (Stop Control)            | No   | No  | No  | No  | No  | No  | Not an Interchange   |  |
|  | Diamond Interch (RAB Control)             | No   | No  | No  | No  | No  | No  | Not an Interchange   |  |
| Signalized Intersections   | No LT Lane Improvements                   | No   | No  | No  | No  | No  | No  |  |  |
|  | No RT Lane Improvements                   | No   | No  | No  | No  | No  | No  |  |  |
|  | Other unsignalized (provide description): | No   | No  | No  | No  | No  | No  |  |  |
|  | Traffic Signal                            | Yes  | Yes | Yes | Yes | Yes | Yes | Safest for trucks  |  |
| Signalized Intersections   | Median U-Turn (Indirect Left)             | No   | No  | No  | No  | No  | No  | Out of scale of the project  |  |
|  | RCUT (signalized)                         | No   | No  | No  | No  | No  | No  | Not a significant improvement over unsignalized R-Cut                  |  |
|  | Displaced Left Turn (CFI)                 | No   | No  | No  | No  | No  | No  | Out of scale of the project  |  |
|  | Continuous Green-T                        | No   | No  | No  | No  | No  | No  | Many driveways on west side of the roadway impacted                    |  |
|  | Jughandle                                 | No   | No  | No  | No  | No  | No  | Out of scale of the project  |  |
|  | Quadrant Roadway                          | No   | No  | No  | No  | No  | No  | Out of scale of the project  |  |
|  | Diamond Interch (Signal Control)          | No   | No  | No  | No  | No  | No  | Not an Interchange   |  |
|  | Diverging Diamond                         | No   | No  | No  | No  | No  | No  | Not an Interchange   |  |
|  | Single Point Interchange                  | No   | No  | No  | No  | No  | No  | Not an Interchange   |  |
|  | No LT Lane Improvements                   | No   | No  | No  | No  | No  | No  |  |  |
|  | No RT Lane Improvements                   | No   | No  | No  | No  | No  | No  |  |  |
|  | Other Signalized (provide description):   | No   | No  | No  | No  | No  | No  |  |  |

= Intersection type selected for more detailed analysis in Stage 2 Alternative Selection Decision Record

Project Location: SR 211 @ Ridgemoor/Site  
 Existing Intersection Control: New Intersection or Other  
 Type of Analysis: Conventional Non-Safety Funded Project

District: 1 - Gainesville  
 County: Hall  
 Area: Suburb/Transit  
 District: 1 - Gainesville  
 County: Hall  
 Area: Suburb/Transit  
 Prepared by: NV5  
 Date: 4/1/2025

### Opening / Design Year Traffic Operations

|  |                       |            |
|--|-----------------------|------------|
| Intersection meets signal/AWS warrants?                | Meets Signal Warrants |            |
| Traffic Analysis Measure of Effectiveness              | Intersection Delay    |            |
| Traffic Analysis Software Used                         | Synchro               |            |
| Analysis Time Period                                   | AM Peak Hr            | PM Peak Hr |
| 2030 Opening Yr No-Build Peak Hr Intersection Delay    | 0.0 sec               | 0.0 sec    |
| 2030 Opening Yr No-Build Peak Hr Intersection V/C      | 0.00                  | 0.00       |
| 2050 Design Yr No-Build Peak Hr Intersection Delay     | 0.0 sec               | 0.0 sec    |
| 2050 Design Yr No-Build Peak Hr Intersection V/C ratio | 0.00                  | 0.00       |

Complete Streets  
 Warrants Met?  
 PEDESTRIANS  
 BICYCLES  
 TRANSIT

| Crash Type                | Crash Data: Enter most recent 5 years of crash data |    |    |    |   | Years:<br>5 |
|---------------------------|---|----|----|----|---|-------------|
|                           | K*  | A* | B* | C* | O |             |
| Angle                     | 0   | 0  | 0  | 0  | 0 | #DIV/0!     |
| Head-On                   | 0   | 0  | 0  | 0  | 0 | #DIV/0!     |
| Rear End                  | 0   | 0  | 0  | 0  | 0 | #DIV/0!     |
| Sideswipe - same          | 0   | 0  | 0  | 0  | 0 | #DIV/0!     |
| Sideswipe - opposite      | 0   | 0  | 0  | 0  | 0 | #DIV/0!     |
| Not Collision w/Motor Veh | 0   | 0  | 0  | 0  | 0 | #DIV/0!     |
| TOTALS:                   | 0   | 0  | 0  | 0  | 0 | 0           |

\* Number of crashes resulting in injuries / fatalities, not number of persons

### Alternatives Analysis:

Proposed Control Type/Improvement:

| Project Cost: (From CostEst Worksheet) | Alternative 1             |                      | Alternative 2       |                | Alternative 3 |                             | Alternative 4               |                             | Alternative 5             |                             |
|--|---------------------------|----------------------|---------------------|----------------|---------------|-----------------------------|-----------------------------|-----------------------------|---------------------------|-----------------------------|
|  | Conventional (Minor Stop) | Multilane Roundabout | RCUT (stop control) | Traffic Signal | N/A           | Additional description here | Additional description here | Additional description here | Add LT bay(s) on major ST | Additional description here |
| Construction Cost                      | \$0                       | \$1,770,000          | \$693,000           | \$283,000      |               |                             |                             |                             |                           |                             |
| ROW Cost                               | \$0                       | \$0                  | \$0                 | \$0            |               |                             |                             |                             |                           |                             |
| Environmental Cost                     | \$0                       | \$0                  | \$0                 | \$0            |               |                             |                             |                             |                           |                             |
| Reimbursable Utility Cost              | \$0                       | \$22,000             | \$10,000            | \$5,000        |               |                             |                             |                             |                           |                             |
| Design & Contingency Cost              | \$0                       | \$683,000            | \$231,000           | \$127,000      |               |                             |                             |                             |                           |                             |
| Cost Adjustment (justification req'd)  | 0%                        | 0%                   | 0%                  | 0%             |               |                             |                             |                             |                           |                             |
| Total Cost                             | \$0                       | \$2,475,000          | \$934,000           | \$415,000      |               |                             |                             |                             |                           |                             |

### Traffic Operations:

| Traffic Analysis Software Used | Synchro    |            | Synchro    |            | Synchro    |            | Synchro    |            |  |  |
|--------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|--|--|
|                                | AM Peak Hr | PM Peak Hr |  |  |
|                                | 500.0 sec  | 500.0 sec  | 10.1 sec   | 10.5 sec   | 20.0 sec   | 30.8 sec   | 10.4 sec   | 11.9 sec   |  |  |
|                                | 2.92       | 3.67       | 0.61       | 0.66       | 0.56       | 0.73       | 0.67       | 0.72       |  |  |

### Safety Analysis:

|   |   |   |   |   |  |
|---|---|---|---|---|--|
| Predefined CRF: PDO                               | 0%  | 0%  | 0%  | 0%  |  |
|   | 0%  | 0%  | 0%  | 0%  |  |
|   | CRF unavailable; provide user defined CRF below |  |
| User Defined CRF: PDO                             |   |   |   |   |  |
| User Defined CRF: Fatal/Inj                       |   |   |   |   |  |
| User Defined CRF Source (write in if applicable): |   |   |   |   |  |

### Environmental Impacts:<sup>1</sup>

|  |      |      |      |      |  |
|--|------|------|------|------|--|
| Historic District/Property<br>Archaeology Resources<br>Graveyard<br>Stream<br>Underground Tank/Hazmat<br>Park Land<br>EJ Community<br>Wooded Area<br>Wetland | None | None | None | None |  |
|  | None | None | None | None |  |
|  | None | None | None | None |  |
|  | None | None | None | None |  |
|  | None | None | None | None |  |
|  | None | None | None | None |  |
|  | None | None | None | None |  |
|  | None | None | None | None |  |
|  | None | None | None | None |  |

Note: If environmental impact is significant (**RED**), provide justification impact won't jeopardize project delivery using "Env" worksheet  
<sup>1</sup> Environmental impacts are only preliminary estimates; detailed environmental impact documentation will be included with project concept report

### Stakeholder Posture:

|   |         |         |         |         |  |
|---|---------|---------|---------|---------|--|
| Local Community Support<br>GDOT Support | Unknown | Unknown | Unknown | Unknown |  |
|   | Unknown | Unknown | Unknown | Unknown |  |

| Final ICE Stage 2 Score:           | -4.6 | 3.4 | 4.5 | 5.3 |  |
|------------------------------------|------|-----|-----|-----|--|
| Rank of Control Type Alternatives: | 4    | 3   | 2   | 1   |  |

Final Intersection Control Selection: **3 - Multilane Roundabout**

Note: Stage 2 score is not given (shown as "-") if signal or AWS is selected as control type but respective warrants are not met

Provide additional comments and/or explain any unique analysis inputs, or results (as necessary): The development is not expected to warrant a traffic signal until full-build out, so a signal may not be the best solution. A roundabout is considered safer for the expected heavy truck movements that are expected from the industrial portion of the development. It is noted that the developer will likely contribute right-of-way for the roundabout.

**Waiver Request - Level 2 / 3**

In certain circumstances where an ICE would otherwise be required, an ICE may be waived based on appropriate evidence presented with a written request. Scenarios in which an ICE waiver request may be considered include:

1. Proposed improvements do not substantially alter the character of the intersection, and are considered minor in nature, such as extending existing turn lane(s) or modifying signal phasing at an existing traffic signal
2. The intersection consists of a public roadway intersecting a divided, multilane roadway where the access will be limited to a closed median with only right-in/right-out access that will operate acceptably; or
3. The intersection is along an undivided, two-lane roadway that will not be widened and meets the following criteria:
  - Low risk in terms of exposure (total intersection entering volume less than 1,000 vehicles /day)
  - Latest 5 years of crash history is not indicative of a crash problem (no discernible crash patterns coupled with low crash frequency and severity)
  - Layout has no unusual or undesirable geometric features (such as restricted sight distance)
  - The proposed changes are not expected to adversely affect safety

If only one alternative is determined to be feasible from the ICE Stage 1, then a waiver may be submitted in lieu of completing ICE Stage 2. The waiver must clearly explain why there is no other feasible alternative. A Waiver Form should also be submitted to document an agreed upon decision to select a preferred alternative other than the highest scoring alternative in Stage 2.

ICE waiver forms with supporting documentation should be submitted for approval to the Office of Traffic Operations or District Engineer (depending on Waiver level). Questions regarding the waiver process should be routed to the State Traffic Engineer.

**Project Information:**

|  |                         |
|--|-------------------------|
| Location:  | SR 211 @ Ridgemoor/Site |
| County:  | Hall                    |
| GDOT District:   | 1 - Gainesville         |
| Area Type:   | Suburb/Transition       |
| Existing Intersection Control: New Intersection or Other |                         |

**Traffic and Operations Data:<sup>1,2</sup>**

| Intersection meets signal/AWS warrants?        | Meets Signal Warrants |
|--|-----------------------|
| Traffic Analysis Type:                         | Intersection Delay    |
| Existing Major Street Avg Daily Traffic (ADT): | 12,484                |
| Existing Minor Street Avg Daily Traffic (ADT): | 0                     |
| Analysis Period:                               | AM Peak PM Peak       |
| 2030 Opening Yr Peak Hour Intersection Delay:  | 7.1 sec 0.7 sec       |
| 2030 Opening Yr Peak Hour Intersection V/C:    | 0.40 0.47             |
| 2050 Design Yr Peak Hour Intersection Delay:   | 10.1 sec 10.5 sec     |
| 2050 Design Yr Peak Hour Intersection V/C:     | 0.61 0.66             |

GDOT PI # (or N/A): N/A

Requested By: GDOT

Prepared By: NV5

Date: 4/1/2025

Waiver Request Type: Driveway Permit

| Crash Type  | Crash Data (Required): <sup>3</sup> |    |    |    |   | Years:  |
|---|-------------------------------------|----|----|----|---|---------|
|   | K*                                  | A* | B* | C* | O |         |
| Crash Data: Enter most recent 5 years of crash data |                                     |    |    |    |   | 5       |
| Angle   | 0                                   | 0  | 0  | 0  | 0 | #DIV/0! |
| Head-On   | 0                                   | 0  | 0  | 0  | 0 | #DIV/0! |
| Rear End  | 0                                   | 0  | 0  | 0  | 0 | #DIV/0! |
| Sideswipe - same                                    | 0                                   | 0  | 0  | 0  | 0 | #DIV/0! |
| Sideswipe - opposite                                | 0                                   | 0  | 0  | 0  | 0 | #DIV/0! |
| Not Collision w/Motor Veh                           | 0                                   | 0  | 0  | 0  | 0 | #DIV/0! |
| <b>TOTALS:</b>                                      | 0                                   | 0  | 0  | 0  | 0 | 0       |

\* Number of crashes resulting in injuries / fatalities, not number of persons

**Description of Work / Justification for Waiver (Required):** A mixed-use development consisting of just over 1.7M sq.ft. of warehousing, 350 townhomes, and 350 apartments is proposed on the east side of SR 211 north of Union Church Road. The addition of heavy trucks wanting to head south from the site towards I-85 presents a safety concern for the area, and a Multilane Roundabout would be the safest option to allow vehicles to move efficiently through the new intersection.

Proposed Intersection Control: Multilane Roundabout

**REQUESTED BY:** \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_

**APPROVED BY:** \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_

District Engineer or (Approved Delegate)

<sup>1</sup> Analysis data input on this worksheet is for proposed control & configuration on form, not the No-Build data shown on the top of Stage 2

<sup>2</sup> ADT's required if available (from data collected or nearest GDOT count station site); Capacity data optional unless needed to justify basis of the waiver request.

<sup>3</sup> Crash data (required for all existing intersections) must be entered here independent from Stage 2 worksheet inputs (not linked)