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August 12, 2022  
Via Email

William Pasik  
Brookfield Properties  
1 Meadowlands Plaza  
Suite 301  
East Rutherford, NJ 07073

**RE: Construction Traffic Impact Letter Report  
Proposed Industrial Park  
Old Mill Road & Hemion Road (CR 93)  
Section 55.22 Block 1, Lot 1  
Village of Suffern, Rockland County, NY  
DT#: 3709-99-004T**

Dear Mr. Pasik:

Dynamic Traffic has prepared the following assessment to determine the traffic impact of construction vehicles associated with the redevelopment of the former Novartis pharmaceutical complex, located along Hemion Road (CR 93) north of Lafayette Avenue (NYS Route 59) in the Village of Suffern, Rockland County, New York (see Figure 1). The site is designated as Section 55.22 Block 1 - Lot 1 on the Village Tax Maps. It is proposed to demolish the existing complex and construct an industrial park with three (3) warehouse buildings totaling 1,221,800 SF, with Building 1 consisting of 963,100 SF, Building 2 consisting of 170,500 SF and Building 3 consisting of 88,200 SF ("The Project"). Access to the site is currently provided via a full movement driveway at the southern end of the site along Hemion Road (CR 93) and a full movement driveway at the northern end of the site along Old Mill Road, which ultimately connects to Hemion Road (CR 93). It is proposed to close the existing access points along Old Mill Road and reconstruct the existing access point along Hemion Road (CR 93) with trucks restricted to left-in/right-in/right-out movements.

Dynamic Traffic LLC has been retained to prepare this study to assess the traffic impact associated with construction vehicles during the construction of The Project on the adjacent roadway network.

### **Existing Conditions**

Lafayette Avenue (NYS Route 59) is an Urban Principal Arterial roadway under NYSDOT jurisdiction with a general east/west orientation. In the vicinity of the site the posted speed limit is 30 MPH and the roadway provides one travel lane in each direction. On-street parking is not provided along either side of the roadway. Curb is provided along both sides of the roadway, while sidewalk is provided intermittently along both sides of the roadway. Lafayette Avenue provides a slightly curved horizontal alignment west of Hemion Road with a downgrade from east to west. The land uses along Lafayette Avenue in the vicinity of The Project are mixed commercial and residential.

Hemion Road (CR 93) is an Urban Major Collector roadway under Rockland County jurisdiction with a general north/south orientation. In the vicinity of the site the posted speed limit is 30 MPH and the roadway provides one travel lane in each direction. On-street parking is not provided along either side of the roadway. Curb and sidewalk are only provided intermittently near the intersection of Campbell Avenue/Hemion Road and Lafayette Avenue (NYS Route 59). Hemion Road provides a curved horizontal alignment with an upgrade from north to south. The land uses along Hemion Road in the vicinity of The Project are primarily industrial.

Airmont Road (CR 89) is an Urban Minor Arterial roadway under Rockland County jurisdiction with a general north/south orientation. In the vicinity of the site the posted speed limit is 30 MPH and the roadway provides two travel lanes in each direction north of Lafayette Avenue (NYS Route 59) and one travel lane in each direction south of Lafayette Avenue (NYS Route 59). On-street parking is not provided along either side of the roadway. Curb and sidewalk are provided along both sides of the roadway. Airmont Road provides a curved horizontal alignment and a rolling vertical alignment. The land uses along Airmont Road in the vicinity of The Project are primarily commercial.

Campbell Avenue is an Urban Minor Arterial roadway under municipal jurisdiction with a general north/south orientation. In the vicinity of the site the posted speed limit is 30 MPH and the roadway provides one travel lane in each direction. On-street parking is not provided along either side of the roadway. Curb is provided along both sides of the roadway, while sidewalk is provided along the northbound side of the roadway. Campbell Avenue provides a curved horizontal alignment with a downgrade from north to south. The land uses along Campbell Avenue in the vicinity of The Project are primarily residential.

North DeBaun Avenue is a local roadway under private jurisdiction with a general east/west orientation. In the vicinity of the site the speed limit is not posted and the roadway provides one lane of travel in each direction. On-street parking is not provided along either side of the roadway. Curb is provided along both sides of the roadway, while sidewalk is provided along the westbound side of the roadway. North DeBaun Avenue provides a straight horizontal alignment and a flat vertical alignment. The land uses along North DeBaun Avenue are a mix of commercial, office, and lodging.

Brookside Avenue is a local roadway under municipal jurisdiction with a general north/south orientation. In the vicinity of the site the posted speed limit is 30 MPH and the roadway provides one lane of travel in each direction. On-street parking is not provided along either side of the roadway. Curb and sidewalk are not provided along either side of the roadway. Brookside Avenue provides a straight horizontal alignment with an upgrade from north to south. The land uses along Brookside Avenue are primarily residential.

### **Site Generated Construction Traffic**

During the construction of The Project, there is anticipated to be 300,000 cubic yards (CY) of imported fill per day. Based on construction estimates, this will require 100 trucks a day, which are assumed to arrive to the site spread throughout the ten-hour workday, which equates to an average of 10 trucks per hour. In an effort to remain conservative, 20 trucks were assumed to arrive and depart during the peak hour. The following table shows the anticipated construction vehicle trip generation for The Project.

**Table I**  
**Construction Vehicle Trip Generation**

| AM PSH |     |       | PM PSH |     |       |
|--------|-----|-------|--------|-----|-------|
| In     | Out | Total | In     | Out | Total |
| 20     | 20  | 40    | 20     | 20  | 40    |

As can be seen above, the proposed site is projected to conservatively generate 40 construction vehicle trips during the weekday morning and weekday evening peak hours during construction. It should be noted that the number of new trips falls below the industry accepted standard of a significant increase in traffic of 100 trips. Based on *Transportation Impact Analysis for Site Development*, published by the ITE “it is suggested that a transportation impact study be conducted whenever a proposed development will generate 100 or more added (new) trips during the adjacent roadways’ peak hour or the development’s peak hour.” Hence, it is not anticipated that the roadway construction will result in a significant degradation of operating conditions.

### **Trip Distribution**

Once the magnitude of the site generated construction traffic is known, it is necessary to assign the traffic to the adjacent street system. The distribution of the construction site traffic is based upon the location of local quarries. The closest two quarries are located in West Nyack, NY to the east of the site, therefore all trips were assumed to travel to the site via I-287/I-87 Westbound and travel from the site via I-287/I-87 Eastbound. The trips were then routed to/from the site via Airmont Road (CR 89) and Lafayette Avenue (NYS Route 59) due to the weight restriction along Montebello Road (CR 64).

### **Future Traffic Volumes**

Existing and Future traffic volumes were obtained from the *Traffic Impact Study* prepared by this firm, dated August 11, 2022. The Future No-Build Volumes are shown on Figure 2. The Construction Traffic Distribution and Construction Site-Generated Trips are shown on Figures 3 and 4, respectively. The Construction Site-Generated Trips were added to the Future No-Build volumes to generate the Construction Volumes, which are shown on Figure 5.

### **Capacity Analysis**

Operational conditions at the study intersections were analyzed under the No Build and Construction conditions and are summarized in Table II.

**Table II**  
**Construction Levels of Service and Vehicle-to-Capacity Ratios**

| Intersection  | Direction/<br>Movement |               | AM PSH        |               |               |               | PM PSH        |               |               |             |
|---|------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------|
|   |                        |               | No Build      |               | Construction  |               | No Build      |               | Construction  |             |
|   |                        |               | LOS           | v/c           | LOS           | v/c           | LOS           | v/c           | LOS           | v/c         |
| Lafayette Avenue (NYS Route 59) & Campbell Avenue/Hemion Road (CR 93) | EB                     | L             | F (115)       | 1.09          | F (115)       | 1.09          | E (75)        | 0.96          | E (76)        | 0.96        |
|   |                        | T             | E (80)        | 1.02          | E (80)        | 1.02          | D (37)        | 0.81          | D (37)        | 0.81        |
|   |                        | R             | A (1)         | 0.08          | A (1)         | 0.08          | A (1)         | 0.12          | A (1)         | 0.12        |
|   | WB                     | L             | D (44)        | 0.74          | D (44)        | 0.74          | B (17)        | 0.35          | B (17)        | 0.36        |
|   |                        | T             | F (100)       | 1.09          | F (100)       | 1.09          | E (74)        | 1.03          | E (75)        | 1.04        |
|   |                        | R             | A (1)         | 0.13          | A (3)         | 0.19          | A (1)         | 0.12          | A (2)         | 0.16        |
|   | NB                     | L             | D (38)        | 0.67          | D (38)        | 0.67          | D (38)        | 0.66          | D (38)        | 0.67        |
|   |                        | TR            | D (44)        | 0.69          | D (44)        | 0.70          | E (68)        | 0.91          | E (69)        | 0.91        |
|   | SB                     | L             | C (31)        | 0.58          | D (42)        | 0.73          | D (41)        | 0.71          | E (57)        | 0.86        |
|   |                        | TR            | E (57)        | 0.89          | E (57)        | 0.89          | F (134)       | 1.16          | F (130)       | 1.15        |
| <b>Overall</b>  |                        | <b>E (68)</b> | <b>1.09</b>   | <b>E (68)</b> | <b>1.09</b>   | <b>E (62)</b> | <b>1.16</b>   | <b>E (63)</b> | <b>1.15</b>   |             |
| Lafayette Avenue (NYS Route 59) & Airmont Road (CR 89)                | EB                     | L             | F (131)       | 1.15          | F (167)       | 1.24          | F (194)       | 1.30          | F (237)       | 1.41        |
|   |                        | T             | D (44)        | 0.45          | D (44)        | 0.60          | D (47)        | 0.67          | D (47)        | 0.67        |
|   |                        | R             | A (1)         | 0.03          | A (1)         | 0.03          | A (2)         | 0.10          | A (2)         | 0.10        |
|   | WB                     | L             | D (39)        | 0.22          | D (39)        | 0.34          | D (40)        | 0.51          | D (40)        | 0.51        |
|   |                        | T             | E (68)        | 0.39          | E (39)        | 0.81          | E (72)        | 0.87          | E (72)        | 0.87        |
|   |                        | R             | D (36)        | 0.71          | D (36)        | 0.71          | D (37)        | 0.82          | D (37)        | 0.82        |
|   | NB                     | L             | C (25)        | 0.09          | E (68)        | 0.09          | D (47)        | 0.22          | D (47)        | 0.22        |
|   |                        | TR            | E (57)        | 0.78          | E (57)        | 0.78          | E (61)        | 0.74          | E (61)        | 0.74        |
|   | SB                     | L             | F (172)       | 1.24          | F (172)       | 1.24          | F (105)       | 1.03          | F (105)       | 1.03        |
|   |                        | T             | F (86)        | 0.42          | F (86)        | 0.90          | F (96)        | 1.01          | F (96)        | 1.01        |
| R   |                        | A (6)         | 0.60          | A (7)         | 0.64          | B (14)        | 0.72          | B (16)        | 0.76          |             |
| <b>Overall</b>  |                        | <b>E (74)</b> | <b>1.24</b>   | <b>E (79)</b> | <b>1.24</b>   | <b>E (74)</b> | <b>1.30</b>   | <b>E (80)</b> | <b>1.41</b>   |             |
| Airmont Road (CR 89) & I-87 SB/I-287 EB Ramps                         | EB                     | LT            | C (21)        | 0.65          | C (21)        | 0.65          | C (25)        | 0.65          | C (25)        | 0.65        |
|   |                        | R             | D (44)        | 0.93          | D (44)        | 0.93          | C (34)        | 0.88          | C (34)        | 0.88        |
|   | NB                     | T             | C (27)        | 0.65          | C (27)        | 0.65          | C (20)        | 0.58          | C (20)        | 0.58        |
|   |                        | R             | F (282)       | 1.54          | F (319)       | 1.63          | F (133)       | 1.21          | F (161)       | 1.28        |
|   | SB                     | L             | D (37)        | 0.78          | D (37)        | 0.78          | C (32)        | 0.80          | C (32)        | 0.80        |
|   |                        | T             | C (23)        | 0.47          | C (23)        | 0.49          | A (9)         | 0.52          | A (9)         | 0.54        |
| <b>Overall</b>  |                        | <b>F (82)</b> | <b>1.54</b>   | <b>F (91)</b> | <b>1.63</b>   | <b>D (41)</b> | <b>1.21</b>   | <b>D (47)</b> | <b>1.28</b>   |             |
| Airmont Road (CR 89) & I-87 NB/I-287 WB Ramps                         | WB                     | L             | D (42)        | 0.78          | D (46)        | 0.89          | C (34)        | 0.64          | C (35)        | 0.80        |
|   |                        | LT            | D (42)        | 0.78          | D (46)        | 0.89          | C (34)        | 0.65          | D (35)        | 0.81        |
|   |                        | R             | C (28)        | 0.72          | C (26)        | 0.77          | B (20)        | 0.64          | B (19)        | 0.73        |
|   | NB                     | L             | F (245)       | 1.46          | F (257)       | 1.49          | E (73)        | 1.05          | E (73)        | 1.05        |
|   |                        | T             | B (11)        | 0.54          | B (12)        | 0.55          | A (4)         | 0.37          | A (4)         | 0.37        |
|   | SB                     | T             | C (25)        | 0.69          | C (27)        | 0.35          | D (44)        | 0.87          | D (42)        | 0.89        |
|   |                        | R             | A (7)         | 0.51          | A (9)         | 0.35          | B (20)        | 0.63          | B (20)        | 0.63        |
|   | <b>Overall</b>         |               | <b>D (46)</b> | <b>1.46</b>   | <b>D (49)</b> | <b>1.49</b>   | <b>C (31)</b> | <b>1.05</b>   | <b>C (33)</b> | <b>1.05</b> |

A (#) - Signalized Intersection Level of Service (seconds of delay per vehicle)

**Table II (continued)**  
**Construction Levels of Service and Vehicle-to-Capacity Ratios**

| Intersection   | Direction/<br>Movement |     | AM PSH        |             |               |             | PM PSH        |             |               |             |
|--|------------------------|-----|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
|  |                        |     | No Build      |             | Construction  |             | No Build      |             | Construction  |             |
|  |                        |     | LOS           | v/c         | LOS           | v/c         | LOS           | v/c         | LOS           | v/c         |
| Airmont Road (CR 89) &<br>North DeBaun Avenue            | EB                     | LTR | C (34)        | 0.39        | C (34)        | 0.39        | C (33)        | 0.36        | C (33)        | 0.36        |
|  | WB                     | LTR | C (30)        | 0.14        | C (30)        | 0.14        | C (34)        | 0.45        | C (34)        | 0.45        |
|  | NB                     | L   | A (5)         | 0.10        | A (5)         | 0.10        | A (7)         | 0.12        | A (7)         | 0.12        |
|  |                        | TR  | A (10)        | 0.62        | B (10)        | 0.64        | B (13)        | 0.67        | B (14)        | 0.69        |
|  | SB                     | L   | A (6)         | 0.07        | A (6)         | 0.07        | A (7)         | 0.17        | A (8)         | 0.17        |
|  |                        | TR  | A (10)        | 0.56        | A (10)        | 0.57        | B (11)        | 0.64        | B (12)        | 0.65        |
| <b>Overall</b>   |                        |     | <b>B (11)</b> | <b>0.62</b> | <b>B (11)</b> | <b>0.64</b> | <b>B (14)</b> | <b>0.67</b> | <b>B (14)</b> | <b>0.69</b> |
| Lafayette Avenue (NYS<br>Route 59) & Brookside<br>Avenue | WB                     | L   | a (10)        | 0.094       | a (10)        | 0.096       | b (12)        | 0.251       | b (12)        | 0.255       |
|  | NB                     | LR  | c (17)        | 0.347       | c (18)        | 0.356       | d (26)        | 0.467       | d (27)        | 0.479       |
| Hemion Road (CR 93) &<br>Site Driveway                   | EB                     | L   | -             | -           | c (17)        | 0.081       | -             | -           | c (16)        | 0.064       |
|  | NB                     | LR  | -             | -           | b (11)        | 0.045       | -             | -           | b (11)        | 0.037       |

As seen in Table II above, the overall impacts of construction traffic are anticipated to be minimal. The proposed signal timing modifications at the intersections along the truck route would mitigate the largest impacts to traffic operations at the intersections. It is recommended to conduct the proposed signal timing modifications prior to the beginning of site construction to accommodate the increase in construction traffic.

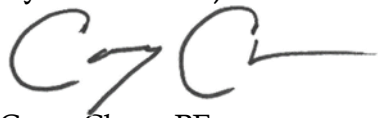
### Conclusion

Based upon our Traffic Impact Assessment as detailed in the body of this report, it is the professional opinion of Dynamic Traffic that the adjacent street system of the Village of Suffern, Village of Montebello, Village of Airmont, Rockland County, and NYSDOT will not experience any significant degradation in operating conditions during the construction of the site. Conducting the proposed signal timing modifications prior to the beginning of site construction would mitigate the increase in construction traffic.

If you have any questions on the above, please do not hesitate to contact our office.

Sincerely,

**Dynamic Traffic, LLC**



Corey Chase, PE  
Principal  
NY PE License 93631

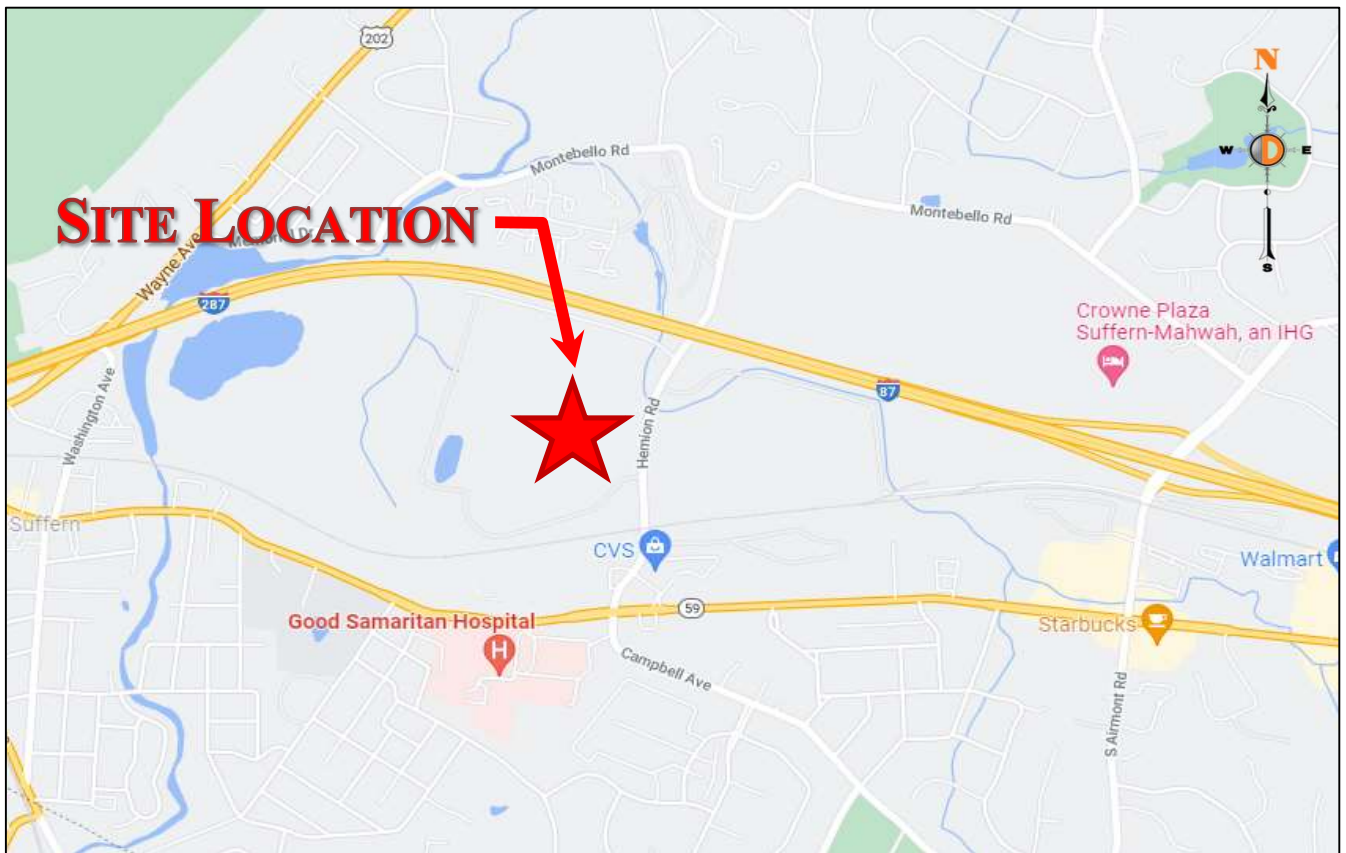


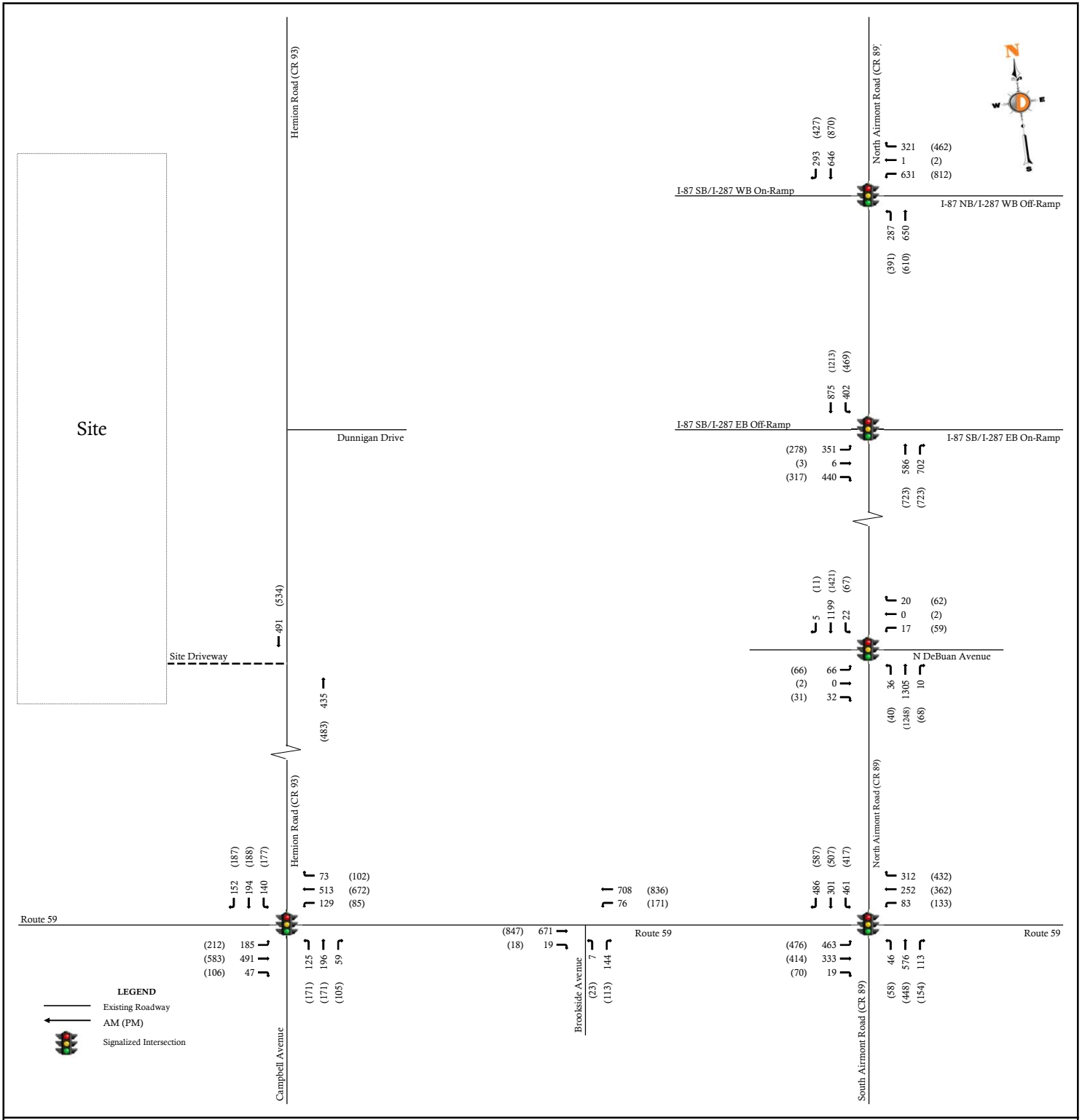
Kevin Savage, PE, PTOE  
Project Manager  
NY PE License 105693

JTT  
Enclosures

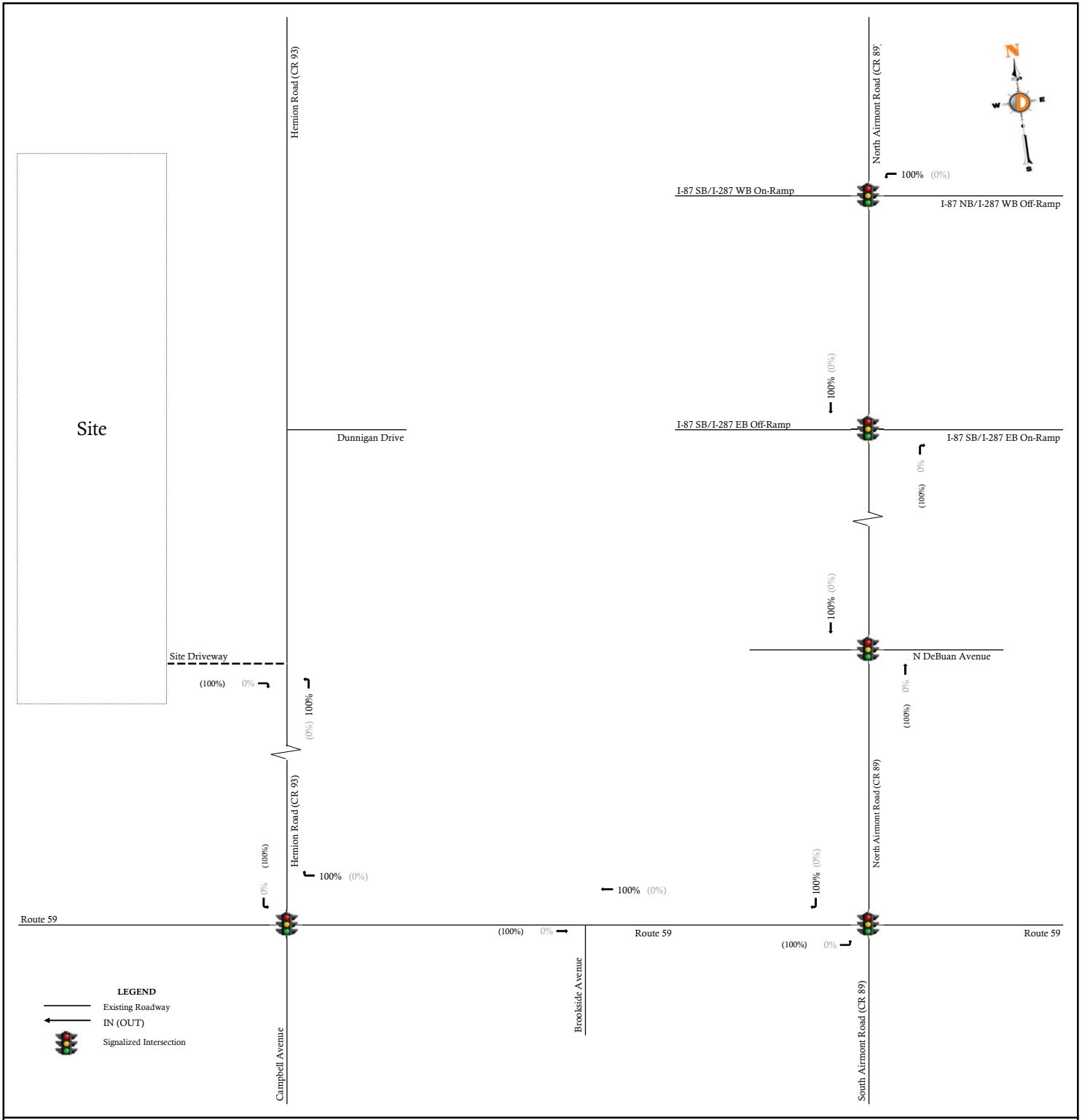
- c: Joshua M. Sewald, PE, PP (via email w/enclosure)  
Darius Chafizadeh (via email w/ enclosure)  
Gina Martini, AICP, ENV SP (via email w/enclosure)  
Jim Wyatt, LEED AP BD+C (via email w/enclosure)  
Greg Fleischer, PWS (via email w/enclosure)



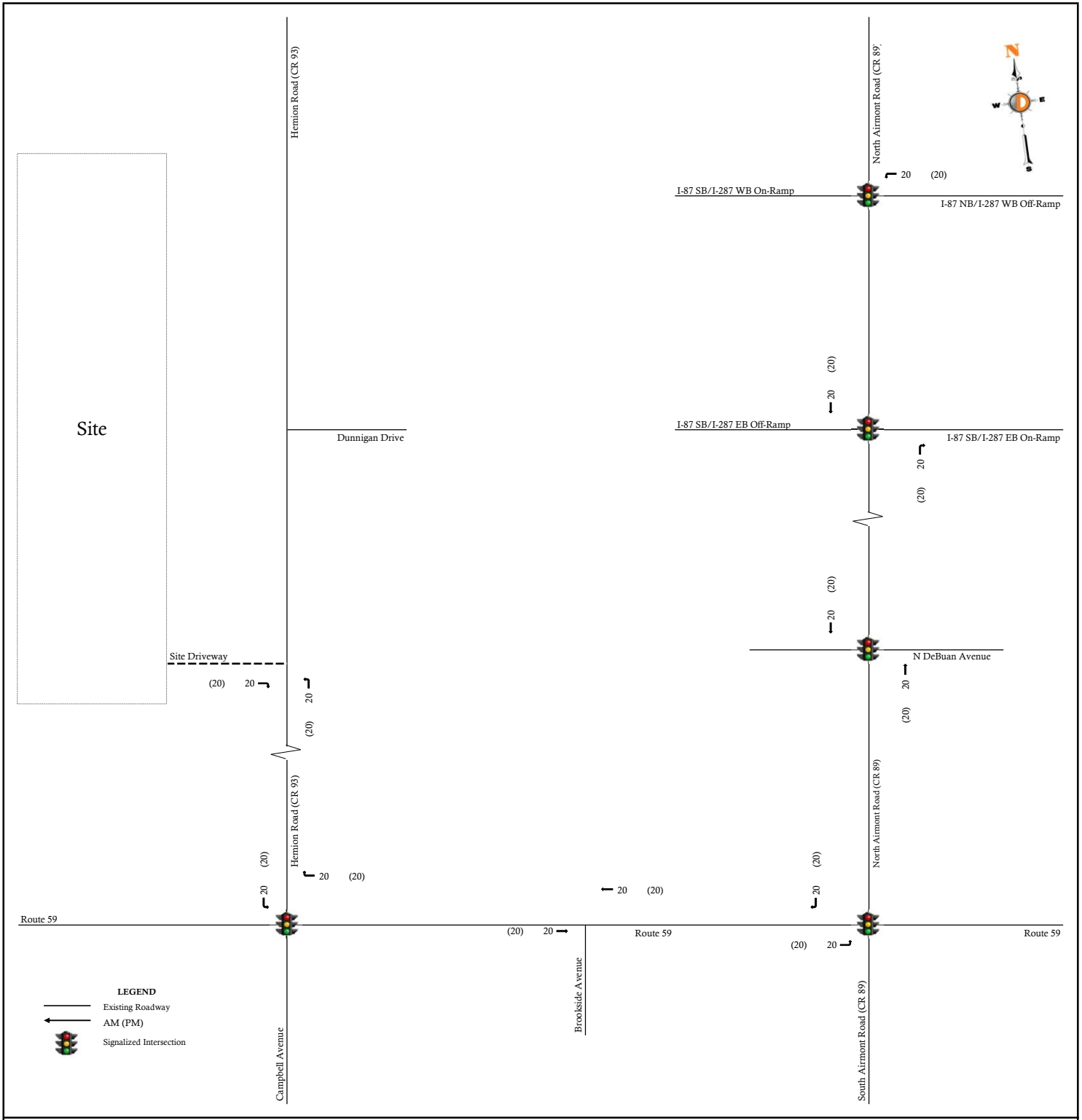


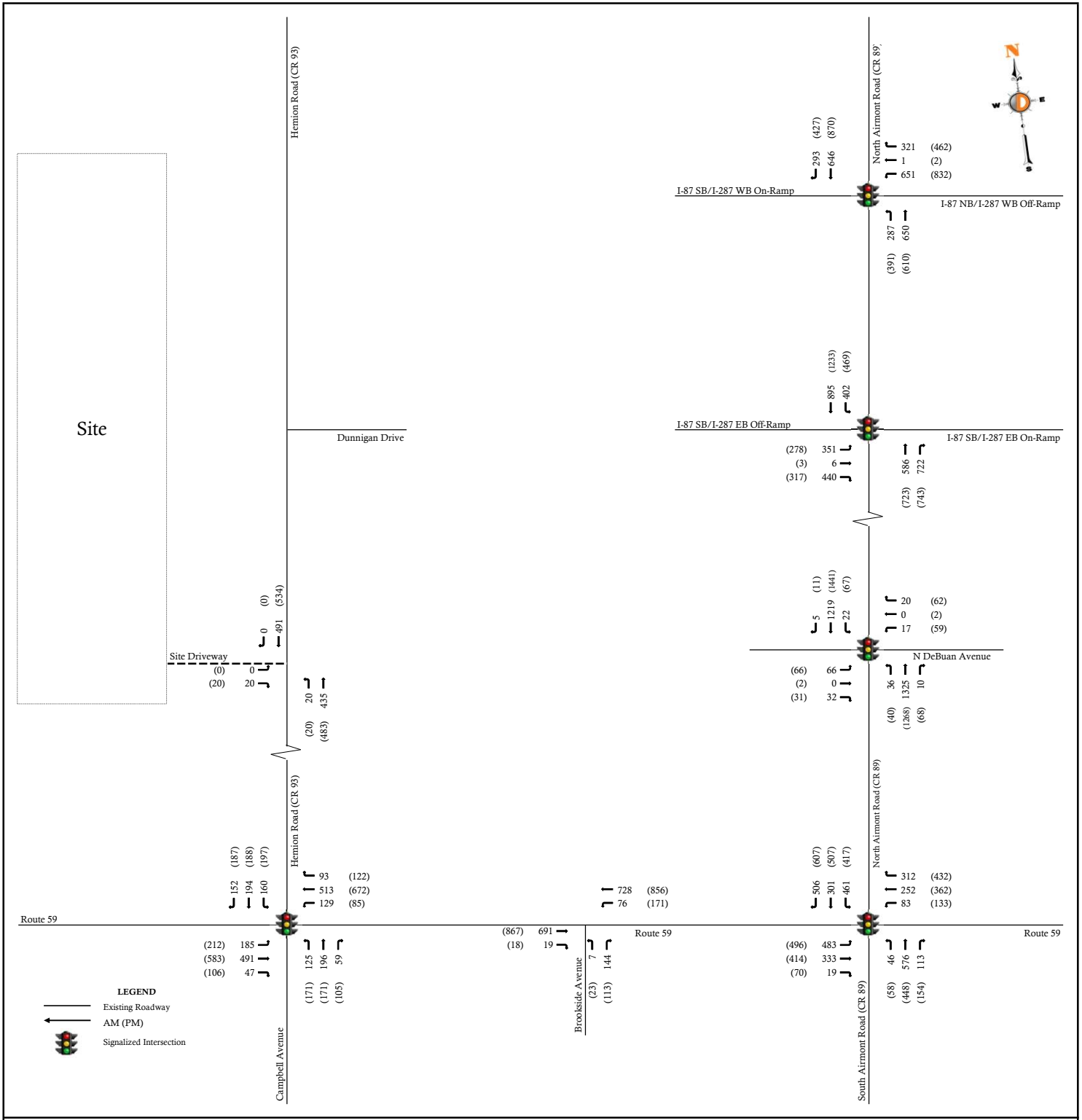






























**Figure 3**  
**Percent Distribution**  
**(Truck Trips)**





|                         |  |  |  |  |  |  |   |  |  |  |  |  |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group              | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations     |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (vph)    | 185   | 491   | 47  | 129   | 513   | 73  | 125   | 196   | 59  | 140   | 194   | 152   |
| Future Volume (vph)     | 185   | 491   | 47  | 129   | 513   | 73  | 125   | 196   | 59  | 140   | 194   | 152   |
| Ideal Flow (vphpl)      | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Lane Width (ft)         | 11  | 11  | 11  | 12  | 12  | 12  | 15  | 12  | 12  | 13  | 13  | 13  |
| Grade (%)               |   | 0%  |   |   | 0%  |   |   | -3%   |   |   |   | -4%   |
| Storage Length (ft)     | 75  |   | 310   | 180   |   | 560   | 150   |   | 0   | 145   |   | 0   |
| Storage Lanes           | 1   |   | 1   | 1   |   | 1   | 1   |   | 0   | 1   |   | 0   |
| Taper Length (ft)       | 115   |   |   | 105   |   |   | 65  |   |   | 40  |   |   |
| Lane Util. Factor       | 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 Factor         |   |   |   |   |   |   | 0.98  | 1.00  | 0.99  |   | 1.00  | 0.99  |
| Frt                     |   |   | 0.850   |   |   | 0.850   |   | 0.965   |   |   |   | 0.934   |
| Flt Protected           | 0.950   |   |   | 0.950   |   |   | 0.950   |   |   | 0.950   |   |   |
| Satd. Flow (prot)       | 1678  | 1749  | 1432  | 1752  | 1727  | 1482  | 1901  | 1739  | 0   | 1745  | 1769  | 0   |
| Flt Permitted           | 0.115   |   |   | 0.116   |   |   | 0.150   |   |   | 0.326   |   |   |
| Satd. Flow (perm)       | 203   | 1749  | 1432  | 214   | 1727  | 1445  | 300   | 1739  | 0   | 597   | 1769  | 0   |
| Right Turn on Red       |   |   | Yes   |   |   | Yes   |   |   | Yes   |   |   | Yes   |
| Satd. Flow (RTOR)       |   |   | 138   |   |   | 138   |   | 13  |   |   |   | 33  |
| Link Speed (mph)        |   | 30  |   |   | 30  |   |   | 30  |   |   |   | 30  |
| Link Distance (ft)      |   | 581   |   |   | 1449  |   |   | 423   |   |   |   | 450   |
| Travel Time (s)         |   | 13.2  |   |   | 32.9  |   |   | 9.6   |   |   |   | 10.2  |
| Confl. Peds. (#/hr)     | 2   |   |   |   |   |   | 2   | 1   |   | 2   | 2   | 1   |
| Peak Hour Factor        | 0.82  | 0.82  | 0.82  | 0.82  | 0.82  | 0.82  | 0.82  | 0.82  | 0.82  | 0.82  | 0.82  | 0.82  |
| Heavy Vehicles (%)      | 4%  | 5%  | 9%  | 3%  | 10%   | 9%  | 6%  | 5%  | 11%   | 9%  | 6%  | 3%  |
| Shared Lane Traffic (%) |   |   |   |   |   |   |   |   |   |   |   |   |
| Lane Group Flow (vph)   | 226   | 599   | 57  | 157   | 626   | 89  | 152   | 311   | 0   | 171   | 422   | 0   |
| Turn Type               | pm+pt   | NA  | pm+ov   | pm+pt   | NA  | pm+ov   | pm+pt   | NA  |   | pm+pt   | NA  |   |
| Protected Phases        | 5   | 2   | 3   | 1   | 6   | 7   | 3   | 8   |   | 7   | 4   |   |
| Permitted Phases        | 2   | 9   | 2   | 6   | 9   | 6   | 8   |   |   | 4   |   |   |
| Detector Phase          | 5   | 2   | 3   | 1   | 6   | 7   | 3   | 8   |   | 7   | 4   |   |
| Switch Phase            |   |   |   |   |   |   |   |   |   |   |   |   |
| Minimum Initial (s)     | 3.0   | 10.0  | 3.0   | 3.0   | 10.0  | 3.0   | 3.0   | 5.0   |   | 3.0   | 5.0   |   |
| Minimum Split (s)       | 9.0   | 16.0  | 9.0   | 9.0   | 16.0  | 9.0   | 9.0   | 11.0  |   | 9.0   | 11.0  |   |
| Total Split (s)         | 15.0  | 40.0  | 15.0  | 15.0  | 40.0  | 15.0  | 15.0  | 40.0  |   | 15.0  | 40.0  |   |
| Total Split (%)         | 12.6%   | 33.6%   | 12.6%   | 12.6%   | 33.6%   | 12.6%   | 12.6%   | 33.6%   |   | 12.6%   | 33.6%   |   |
| Maximum Green (s)       | 9.0   | 34.0  | 9.0   | 9.0   | 34.0  | 9.0   | 9.0   | 34.0  |   | 9.0   | 34.0  |   |
| 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   | Lead  | Lead  | Lag   | Lead  | Lead  | Lag   |   | Lead  | Lag   |   |
| Lead-Lag Optimize?      | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |   | Yes   | Yes   |   |
| Vehicle Extension (s)   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |   | 2.0   | 2.0   |   |
| Recall Mode             | None  | Min   | None  | None  | Min   | None  | None  | None  |   | None  | None  |   |
| Walk Time (s)           |   | 7.0   |   |   | 7.0   |   |   | 7.0   |   |   | 7.0   |   |
| Flash Dont Walk (s)     |   | 14.0  |   |   | 18.0  |   |   | 17.0  |   |   | 16.0  |   |
| Pedestrian Calls (#/hr) |   | 2   |   |   | 2   |   |   | 3   |   |   | 3   |   |
| Act Effct Green (s)     | 43.8  | 35.7  | 49.2  | 43.2  | 35.4  | 43.1  | 35.5  | 27.0  |   | 36.0  | 27.3  |   |
| Actuated g/C Ratio      | 0.41  | 0.33  | 0.46  | 0.40  | 0.33  | 0.40  | 0.33  | 0.25  |   | 0.34  | 0.26  |   |

|                           |      |
|---------------------------|------|
| Lane Group                | Ø9   |
| Lane Configurations       |      |
| Traffic Volume (vph)      |      |
| Future Volume (vph)       |      |
| Ideal Flow (vphpl)        |      |
| Lane Width (ft)           |      |
| Grade (%)                 |      |
| Storage Length (ft)       |      |
| Storage Lanes             |      |
| Taper Length (ft)         |      |
| Lane Util. Factor         |      |
| Ped Bike Factor           |      |
| Fr <sub>t</sub>           |      |
| Fl <sub>t</sub> Protected |      |
| Satd. Flow (prot)         |      |
| Fl <sub>t</sub> Permitted |      |
| Satd. Flow (perm)         |      |
| Right Turn on Red         |      |
| Satd. Flow (RTOR)         |      |
| Link Speed (mph)          |      |
| Link Distance (ft)        |      |
| Travel Time (s)           |      |
| Confl. Peds. (#/hr)       |      |
| Peak Hour Factor          |      |
| Heavy Vehicles (%)        |      |
| Shared Lane Traffic (%)   |      |
| Lane Group Flow (vph)     |      |
| Turn Type                 |      |
| Protected Phases          | 9    |
| Permitted Phases          |      |
| Detector Phase            |      |
| Switch Phase              |      |
| Minimum Initial (s)       | 3.0  |
| Minimum Split (s)         | 9.0  |
| Total Split (s)           | 9.0  |
| Total Split (%)           | 8%   |
| Maximum Green (s)         | 3.0  |
| Yellow Time (s)           | 4.0  |
| All-Red Time (s)          | 2.0  |
| Lost Time Adjust (s)      |      |
| Total Lost Time (s)       |      |
| Lead/Lag                  |      |
| Lead-Lag Optimize?        |      |
| Vehicle Extension (s)     | 2.0  |
| Recall Mode               | None |
| Walk Time (s)             |      |
| Flash Dont Walk (s)       |      |
| Pedestrian Calls (#/hr)   |      |
| Act Effct Green (s)       |      |
| Actuated g/C Ratio        |      |



| Lane Group              | EBL   | EBT  | EBR  | WBL  | WBT   | WBR  | NBL  | NBT  | NBR | SBL  | SBT  | SBR |
|-------------------------|-------|------|------|------|-------|------|------|------|-----|------|------|-----|
| v/c Ratio               | 1.09  | 1.02 | 0.08 | 0.74 | 1.09  | 0.13 | 0.67 | 0.69 |     | 0.58 | 0.89 |     |
| Control Delay           | 114.5 | 79.8 | 0.2  | 43.8 | 100.4 | 1.3  | 37.7 | 43.5 |     | 31.4 | 56.8 |     |
| Queue Delay             | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |     | 0.0  | 0.0  |     |
| Total Delay             | 114.5 | 79.8 | 0.2  | 43.8 | 100.4 | 1.3  | 37.7 | 43.5 |     | 31.4 | 56.8 |     |
| LOS                     | F     | E    | A    | D    | F     | A    | D    | D    |     | C    | E    |     |
| Approach Delay          |       | 83.6 |      |      | 80.1  |      |      | 41.6 |     |      | 49.5 |     |
| Approach LOS            |       | F    |      |      | F     |      |      | D    |     |      | D    |     |
| Queue Length 50th (ft)  | ~120  | ~437 | 0    | 59   | ~479  | 0    | 63   | 176  |     | 73   | 246  |     |
| Queue Length 95th (ft)  | #282  | #580 | 0    | #149 | #657  | 2    | 108  | 262  |     | 122  | 354  |     |
| Internal Link Dist (ft) |       | 501  |      |      | 1369  |      |      | 343  |     |      | 370  |     |
| Turn Bay Length (ft)    | 75    |      | 310  | 180  |       | 560  | 150  |      |     | 145  |      |     |
| Base Capacity (vph)     | 208   | 585  | 742  | 218  | 573   | 673  | 237  | 568  |     | 301  | 592  |     |
| 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       | 1.09  | 1.02 | 0.08 | 0.72 | 1.09  | 0.13 | 0.64 | 0.55 |     | 0.57 | 0.71 |     |

Intersection Summary

Area Type: Other  
 Cycle Length: 119  
 Actuated Cycle Length: 106.7  
 Natural Cycle: 110  
 Control Type: Actuated-Uncoordinated  
 Maximum v/c Ratio: 1.09  
 Intersection Signal Delay: 68.4  
 Intersection LOS: E  
 Intersection Capacity Utilization 83.7%  
 ICU Level of Service E  
 Analysis Period (min) 15  
 ~ 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.

Splits and Phases: 10: Campbell Avenue/Hemion Road (CR 93) & Route 59

|                       |                     |                         |                     |                        |
|-----------------------|---------------------|-------------------------|---------------------|------------------------|
| #10<br>Ø9f Ø1<br>15 s | #10<br>→ Ø2<br>40 s | #10 #15<br>↖ Ø3<br>15 s | #10<br>↓ Ø4<br>40 s | #10 #15<br>← Ø5<br>9 s |
| #10<br>↗ Ø5<br>15 s   | #10<br>← Ø6<br>40 s | #10 #15<br>↖ Ø7<br>15 s | #10<br>↑ Ø8<br>40 s |                        |

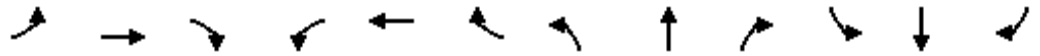


|                         |    |
|-------------------------|----|
| Lane Group              | Ø9 |
| v/c Ratio               |    |
| Control Delay           |    |
| Queue Delay             |    |
| Total Delay             |    |
| LOS                     |    |
| Approach Delay          |    |
| Approach LOS            |    |
| Queue Length 50th (ft)  |    |
| Queue Length 95th (ft)  |    |
| Internal Link Dist (ft) |    |
| Turn Bay Length (ft)    |    |
| Base Capacity (vph)     |    |
| Starvation Cap Reductn  |    |
| Spillback Cap Reductn   |    |
| Storage Cap Reductn     |    |
| Reduced v/c Ratio       |    |
| Intersection Summary    |    |

HCM 6th Edition methodology does not support clustered intersections.

| Lane Group                | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR  | SBL   | SBT   | SBR   |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| Lane Configurations       |       |       |       |       |       |       |       |       |      |       |       |       |
| Traffic Volume (vph)      | 463   | 333   | 19    | 83    | 252   | 312   | 46    | 576   | 113  | 461   | 301   | 486   |
| Future Volume (vph)       | 463   | 333   | 19    | 83    | 252   | 312   | 46    | 576   | 113  | 461   | 301   | 486   |
| Ideal Flow (vphpl)        | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900 | 1900  | 1900  | 1900  |
| Lane Width (ft)           | 13    | 12    | 11    | 13    | 12    | 9     | 11    | 11    | 11   | 12    | 10    | 10    |
| Grade (%)                 |       | 4%    |       |       | -2%   |       |       | -5%   |      |       | 0%    |       |
| Storage Length (ft)       | 330   |       | 145   | 175   |       | 170   | 140   |       | 140  | 100   |       | 0     |
| Storage Lanes             | 1     |       | 1     | 1     |       | 1     | 1     |       | 1    | 1     |       | 1     |
| Taper Length (ft)         | 65    |       |       | 130   |       |       | 200   |       |      | 30    |       |       |
| Lane Util. Factor         | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 0.95  | 0.95 | 1.00  | 1.00  | 1.00  |
| Fr <sub>t</sub>           |       |       | 0.850 |       |       | 0.850 |       | 0.975 |      |       |       | 0.850 |
| Fl <sub>t</sub> Protected | 0.950 |       |       | 0.950 |       |       | 0.950 |       |      | 0.950 |       |       |
| Satd. Flow (prot)         | 1792  | 1724  | 1168  | 1811  | 1761  | 1299  | 1555  | 3343  | 0    | 1656  | 1627  | 1422  |
| Fl <sub>t</sub> Permitted | 0.152 |       |       | 0.556 |       |       | 0.261 |       |      | 0.127 |       |       |
| Satd. Flow (perm)         | 287   | 1724  | 1168  | 1060  | 1761  | 1299  | 427   | 3343  | 0    | 221   | 1627  | 1422  |
| Right Turn on Red         |       |       | Yes   |       |       | No    |       |       | Yes  |       |       | Yes   |
| Satd. Flow (RTOR)         |       |       | 98    |       |       |       |       | 11    |      |       |       | 416   |
| Link Speed (mph)          |       | 30    |       |       | 30    |       |       | 30    |      |       |       | 30    |
| Link Distance (ft)        |       | 1140  |       |       | 915   |       |       | 417   |      |       |       | 588   |
| Travel Time (s)           |       | 25.9  |       |       | 20.8  |       |       | 9.5   |      |       |       | 13.4  |
| Peak Hour Factor          | 0.98  | 0.98  | 0.98  | 0.98  | 0.98  | 0.98  | 0.98  | 0.98  | 0.98 | 0.98  | 0.98  | 0.98  |
| Heavy Vehicles (%)        | 2%    | 8%    | 31%   | 4%    | 9%    | 13%   | 15%   | 4%    | 6%   | 9%    | 9%    | 6%    |
| Shared Lane Traffic (%)   |       |       |       |       |       |       |       |       |      |       |       |       |
| Lane Group Flow (vph)     | 472   | 340   | 19    | 85    | 257   | 318   | 47    | 703   | 0    | 470   | 307   | 496   |
| Turn Type                 | pm+pt | NA    | pm+ov | pm+pt | NA    | pm+ov | pm+pt | NA    |      | pm+pt | NA    | pm+ov |
| Protected Phases          | 5     | 2     | 3     | 1     | 6     | 7     | 3     | 8     |      | 7     | 4     | 5     |
| Permitted Phases          | 2     | 10    | 2     | 6     | 10    | 6     | 8     |       |      | 4     |       | 4     |
| Detector Phase            | 5     | 2     | 3     | 1     | 6     | 7     | 3     | 8     |      | 7     | 4     | 5     |
| Switch Phase              |       |       |       |       |       |       |       |       |      |       |       |       |
| Minimum Initial (s)       | 5.0   | 9.0   | 3.0   | 3.0   | 10.0  | 3.0   | 3.0   | 10.0  |      | 3.0   | 10.0  | 5.0   |
| Minimum Split (s)         | 10.0  | 15.0  | 8.0   | 8.0   | 15.0  | 8.0   | 8.0   | 15.0  |      | 8.0   | 15.0  | 10.0  |
| Total Split (s)           | 35.0  | 65.0  | 8.0   | 25.0  | 55.0  | 35.0  | 8.0   | 45.0  |      | 35.0  | 72.0  | 35.0  |
| Total Split (%)           | 18.4% | 34.2% | 4.2%  | 13.2% | 28.9% | 18.4% | 4.2%  | 23.7% |      | 18.4% | 37.9% | 18.4% |
| Maximum Green (s)         | 30.0  | 60.0  | 3.0   | 20.0  | 50.0  | 30.0  | 3.0   | 40.0  |      | 30.0  | 67.0  | 30.0  |
| 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)          | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |      | 1.0   | 1.0   | 1.0   |
| 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)       | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |      | 5.0   | 5.0   | 5.0   |
| Lead/Lag                  | Lead  | Lag   | Lag   | Lead  | Lag   | Lag   | Lag   | Lead  |      | Lag   | Lead  | Lead  |
| Lead-Lag Optimize?        | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |      | Yes   | Yes   | Yes   |
| Vehicle Extension (s)     | 3.0   | 3.0   | 1.0   | 1.0   | 3.0   | 3.0   | 1.0   | 2.0   |      | 3.0   | 3.0   | 3.0   |
| Recall Mode               | None  | None  | Max   | None  | None  | Max   | Max   | Max   |      | Max   | None  | None  |
| Walk Time (s)             |       | 7.0   |       |       | 7.0   |       |       | 7.0   |      |       | 7.0   |       |
| Flash Dont Walk (s)       |       | 24.0  |       |       | 24.0  |       |       | 24.0  |      |       | 24.0  |       |
| Pedestrian Calls (#/hr)   |       | 0     |       |       | 0     |       |       | 0     |      |       | 0     |       |
| Act Effct Green (s)       | 56.5  | 48.8  | 81.9  | 29.7  | 27.0  | 51.5  | 73.0  | 40.1  |      | 61.5  | 31.4  | 61.5  |
| Actuated g/C Ratio        | 0.38  | 0.33  | 0.55  | 0.20  | 0.18  | 0.34  | 0.49  | 0.27  |      | 0.41  | 0.21  | 0.41  |
| v/c Ratio                 | 1.15  | 0.60  | 0.03  | 0.34  | 0.81  | 0.71  | 0.09  | 0.78  |      | 1.24  | 0.90  | 0.60  |
| Control Delay             | 131.1 | 43.8  | 0.1   | 38.6  | 67.8  | 35.7  | 24.9  | 57.3  |      | 172.1 | 85.6  | 6.1   |

|                         |      |
|-------------------------|------|
| Lane Group              | Ø10  |
| Lane Configurations     |      |
| Traffic Volume (vph)    |      |
| Future Volume (vph)     |      |
| Ideal Flow (vphpl)      |      |
| Lane Width (ft)         |      |
| Grade (%)               |      |
| Storage Length (ft)     |      |
| Storage Lanes           |      |
| Taper Length (ft)       |      |
| Lane Util. Factor       |      |
| Frt                     |      |
| Flt Protected           |      |
| Satd. Flow (prot)       |      |
| Flt Permitted           |      |
| Satd. Flow (perm)       |      |
| Right Turn on Red       |      |
| Satd. Flow (RTOR)       |      |
| Link Speed (mph)        |      |
| Link Distance (ft)      |      |
| Travel Time (s)         |      |
| Peak Hour Factor        |      |
| Heavy Vehicles (%)      |      |
| Shared Lane Traffic (%) |      |
| Lane Group Flow (vph)   |      |
| Turn Type               |      |
| Protected Phases        | 10   |
| Permitted Phases        |      |
| Detector Phase          |      |
| Switch Phase            |      |
| Minimum Initial (s)     | 15.0 |
| Minimum Split (s)       | 20.0 |
| Total Split (s)         | 20.0 |
| Total Split (%)         | 11%  |
| Maximum Green (s)       | 15.0 |
| Yellow Time (s)         | 4.0  |
| All-Red Time (s)        | 1.0  |
| Lost Time Adjust (s)    |      |
| Total Lost Time (s)     |      |
| Lead/Lag                |      |
| Lead-Lag Optimize?      |      |
| Vehicle Extension (s)   | 3.0  |
| Recall Mode             | None |
| Walk Time (s)           |      |
| Flash Dont Walk (s)     |      |
| Pedestrian Calls (#/hr) |      |
| Act Effct Green (s)     |      |
| Actuated g/C Ratio      |      |
| v/c Ratio               |      |
| Control Delay           |      |

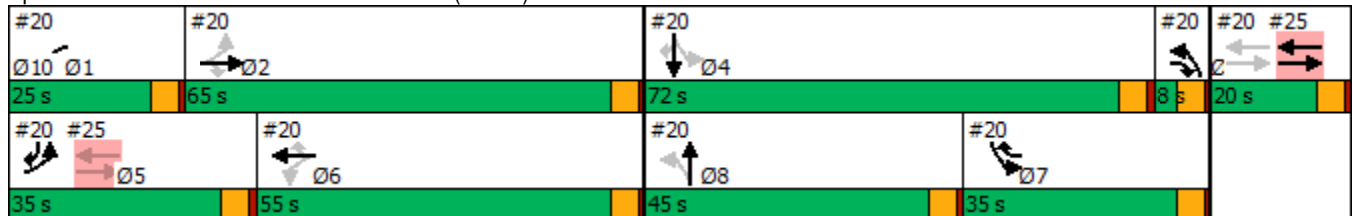


| Lane Group              | EBL   | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR | SBL   | SBT  | SBR  |
|-------------------------|-------|------|------|------|------|------|------|------|-----|-------|------|------|
| Queue Delay             | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     | 0.0   | 0.0  | 0.0  |
| Total Delay             | 131.1 | 43.8 | 0.1  | 38.6 | 67.8 | 35.7 | 24.9 | 57.3 |     | 172.1 | 85.6 | 6.1  |
| LOS                     | F     | D    | A    | D    | E    | D    | C    | E    |     | F     | F    | A    |
| Approach Delay          |       | 92.4 |      |      | 48.6 |      |      | 55.3 |     |       | 86.6 |      |
| Approach LOS            |       | F    |      |      | D    |      |      | E    |     |       | F    |      |
| Queue Length 50th (ft)  | ~449  | 270  | 0    | 49   | 238  | 129  | 22   | 322  |     | ~510  | 293  | 27   |
| Queue Length 95th (ft)  | #801  | 319  | 0    | 105  | 234  | 230  | 54   | 452  |     | #793  | 409  | 81   |
| Internal Link Dist (ft) |       | 1060 |      |      | 835  |      |      | 337  |     |       | 508  |      |
| Turn Bay Length (ft)    | 330   |      | 145  | 175  |      | 170  | 140  |      |     | 100   |      |      |
| Base Capacity (vph)     | 412   | 760  | 685  | 395  | 658  | 447  | 501  | 906  |     | 380   | 732  | 830  |
| Starvation Cap Reductn  | 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    |
| Storage Cap Reductn     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     | 0     | 0    | 0    |
| Reduced v/c Ratio       | 1.15  | 0.45 | 0.03 | 0.22 | 0.39 | 0.71 | 0.09 | 0.78 |     | 1.24  | 0.42 | 0.60 |

Intersection Summary

Area Type: Other  
 Cycle Length: 190  
 Actuated Cycle Length: 149.3  
 Natural Cycle: 150  
 Control Type: Semi Act-Uncoord  
 Maximum v/c Ratio: 1.24  
 Intersection Signal Delay: 74.1  
 Intersection LOS: E  
 Intersection Capacity Utilization 100.6%  
 ICU Level of Service G  
 Analysis Period (min) 15  
 ~ 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.



















Splits and Phases: 20: North Airmont Road (CR 89) & Route 59

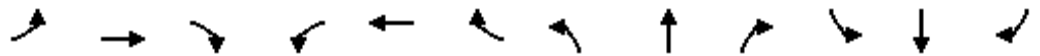


|                         |     |
|-------------------------|-----|
| Lane Group              | Ø10 |
| Queue Delay             |     |
| Total Delay             |     |
| LOS                     |     |
| Approach Delay          |     |
| Approach LOS            |     |
| Queue Length 50th (ft)  |     |
| Queue Length 95th (ft)  |     |
| Internal Link Dist (ft) |     |
| Turn Bay Length (ft)    |     |
| Base Capacity (vph)     |     |
| Starvation Cap Reductn  |     |
| Spillback Cap Reductn   |     |
| Storage Cap Reductn     |     |
| Reduced v/c Ratio       |     |
| Intersection Summary    |     |



HCM 6th Edition methodology does not support clustered intersections.

|                         |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Lane Group              | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL  | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations     |   |  |  |   |   |   |  |  |  |  |  |   |
| Traffic Volume (vph)    | 351   | 6   | 440   | 0   | 0   | 0   | 0  | 586   | 702   | 402   | 875   | 0   |
| Future Volume (vph)     | 351   | 6   | 440   | 0   | 0   | 0   | 0  | 586   | 702   | 402   | 875   | 0   |
| Ideal Flow (vphpl)      | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900   | 1900  | 1900  | 1900  | 1900  | 1900  |
| Lane Width (ft)         | 12  | 12  | 12  | 12  | 12  | 12  | 11   | 11  | 14  | 12  | 12  | 12  |
| Grade (%)               |   | 5%  |   |   | 0%  |   |  | 3%  |   |   |   | -5%   |
| Storage Length (ft)     | 120   |   | 0   | 0   |   | 0   | 0  |   | 80  | 150   |   | 0   |
| Storage Lanes           | 1   |   | 1   | 0   |   | 0   | 0  |   | 1   | 2   |   | 0   |
| Taper Length (ft)       | 125   |   |   | 25  |   |   | 25   |   |   | 80  |   |   |
| Lane Util. Factor       | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00   | 0.95  | 1.00  | 0.97  | 0.95  | 1.00  |
| Frt                     |   |   | 0.850   |   |   |   |  |   |   | 0.850   |   |   |
| Flt Protected           |   | 0.953   |   |   |   |   |  |   |   | 0.950   |   |   |
| Satd. Flow (prot)       | 0   | 1562  | 1357  | 0   | 0   | 0   | 0  | 3042  | 1632  | 3519  | 3491  | 0   |
| Flt Permitted           |   | 0.953   |   |   |   |   |  |   |   | 0.950   |   |   |
| Satd. Flow (perm)       | 0   | 1562  | 1357  | 0   | 0   | 0   | 0  | 3042  | 1632  | 3519  | 3491  | 0   |
| Right Turn on Red       |   |   | Yes   |   |   | Yes   |  |   | Yes   |   |   | Yes   |
| Satd. Flow (RTOR)       |   |   | 102   |   |   |   |  |   | 582   |   |   |   |
| Link Speed (mph)        |   | 30  |   |   | 30  |   |  | 30  |   |   | 30  |   |
| Link Distance (ft)      |   | 946   |   |   | 400   |   |  | 480   |   |   | 504   |   |
| Travel Time (s)         |   | 21.5  |   |   | 9.1   |   |  | 10.9  |   |   | 11.5  |   |
| Peak Hour Factor        | 0.99  | 0.99  | 0.99  | 0.99  | 0.99  | 0.99  | 0.99   | 0.99  | 0.99  | 0.99  | 0.99  | 0.99  |
| Heavy Vehicles (%)      | 13%   | 13%   | 16%   | 0%  | 0%  | 0%  | 0%   | 13%   | 4%  | 2%  | 6%  | 0%  |
| Shared Lane Traffic (%) |   |   |   |   |   |   |  |   |   |   |   |   |
| Lane Group Flow (vph)   | 0   | 361   | 444   | 0   | 0   | 0   | 0  | 592   | 709   | 406   | 884   | 0   |
| Turn Type               | Perm  | NA  | Perm  |   |   |   |  | NA  | Perm  | Prot  | NA  |   |
| Protected Phases        |   | 4   |   |   |   |   |  | 2   |   | 1   | 6   |   |
| Permitted Phases        | 4   |   | 4   |   |   |   |  |   | 2   |   |   |   |
| Detector Phase          | 4   | 4   | 4   |   |   |   |  | 2   | 2   | 1   | 6   |   |
| Switch Phase            |   |   |   |   |   |   |  |   |   |   |   |   |
| Minimum Initial (s)     | 10.0  | 10.0  | 10.0  |   |   |   |  | 10.0  | 10.0  | 10.0  | 10.0  |   |
| Minimum Split (s)       | 15.0  | 15.0  | 15.0  |   |   |   |  | 15.0  | 15.0  | 15.0  | 15.0  |   |
| Total Split (s)         | 36.0  | 36.0  | 36.0  |   |   |   |  | 21.0  | 21.0  | 18.0  | 39.0  |   |
| Total Split (%)         | 48.0%   | 48.0%   | 48.0%   |   |   |   |  | 28.0%   | 28.0%   | 24.0%   | 52.0%   |   |
| Maximum Green (s)       | 31.0  | 31.0  | 31.0  |   |   |   |  | 16.0  | 16.0  | 13.0  | 34.0  |   |
| Yellow Time (s)         | 3.0   | 3.0   | 3.0   |   |   |   |  | 3.0   | 3.0   | 3.0   | 3.0   |   |
| All-Red Time (s)        | 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   |   |
| Total Lost Time (s)     |   | 5.0   | 5.0   |   |   |   |  | 5.0   | 5.0   | 5.0   | 5.0   |   |
| Lead/Lag                |   |   |   |   |   |   |  | Lag   | Lag   | Lead  |   |   |
| Lead-Lag Optimize?      |   |   |   |   |   |   |  | Yes   | Yes   | Yes   |   |   |
| Vehicle Extension (s)   | 2.0   | 2.0   | 2.0   |   |   |   |  | 2.0   | 2.0   | 2.0   | 2.0   |   |
| Recall Mode             | None  | None  | None  |   |   |   |  | C-Max   | C-Max   | None  | C-Max   |   |
| Act Effct Green (s)     |   | 24.5  | 24.5  |   |   |   |  | 23.4  | 23.4  | 12.1  | 40.5  |   |
| Actuated g/C Ratio      |   | 0.33  | 0.33  |   |   |   |  | 0.31  | 0.31  | 0.16  | 0.54  |   |
| v/c Ratio               |   | 0.71  | 0.87  |   |   |   |  | 0.62  | 0.78  | 0.71  | 0.47  |   |
| Control Delay           |   | 29.2  | 35.3  |   |   |   |  | 23.0  | 15.4  | 32.0  | 9.0   |   |
| Queue Delay             |   | 0.0   | 0.0   |   |   |   |  | 0.0   | 0.0   | 0.0   | 0.0   |   |
| Total Delay             |   | 29.2  | 35.3  |   |   |   |  | 23.0  | 15.4  | 32.0  | 9.0   |   |
| LOS                     |   | C   | D   |   |   |   |  | C   | B   | C   | A   |   |

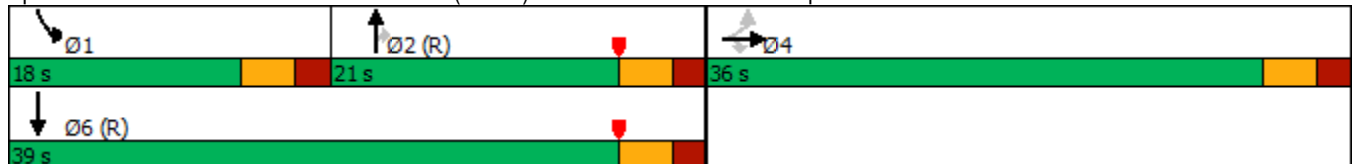





















| Lane Group              | EBL | EBT  | EBR  | WBL | WBT | WBR | NBL | NBT  | NBR  | SBL  | SBT | SBR  |
|-------------------------|-----|------|------|-----|-----|-----|-----|------|------|------|-----|------|
| Approach Delay          |     | 32.6 |      |     |     |     |     | 18.9 |      |      |     | 16.3 |
| Approach LOS            |     | C    |      |     |     |     |     | B    |      |      |     | B    |
| Queue Length 50th (ft)  |     | 140  | 145  |     |     |     |     | 130  | 132  | 68   |     | 50   |
| Queue Length 95th (ft)  |     | 206  | 241  |     |     |     |     | #229 | #245 | m116 |     | 176  |
| Internal Link Dist (ft) |     | 866  |      |     | 320 |     |     | 400  |      |      |     | 424  |
| Turn Bay Length (ft)    |     |      |      |     |     |     |     |      | 80   | 150  |     |      |
| Base Capacity (vph)     |     | 645  | 620  |     |     |     |     | 948  | 909  | 609  |     | 1885 |
| Starvation Cap Reductn  |     | 0    | 0    |     |     |     |     | 0    | 0    | 0    |     | 0    |
| Spillback Cap Reductn   |     | 0    | 0    |     |     |     |     | 0    | 0    | 0    |     | 0    |
| Storage Cap Reductn     |     | 0    | 0    |     |     |     |     | 0    | 0    | 0    |     | 0    |
| Reduced v/c Ratio       |     | 0.56 | 0.72 |     |     |     |     | 0.62 | 0.78 | 0.67 |     | 0.47 |

Intersection Summary

Area Type: Other  
 Cycle Length: 75  
 Actuated Cycle Length: 75  
 Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow, Master Intersection  
 Natural Cycle: 60  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.87  
 Intersection Signal Delay: 21.1 Intersection LOS: C  
 Intersection Capacity Utilization 87.2% ICU Level of Service E  
 Analysis Period (min) 15  
 # 95th percentile volume exceeds capacity, queue may be longer.  
 Queue shown is maximum after two cycles.  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 30: North Airmont Road (CR 89) & I-87 SB/I-287 EB Off-Ramp



|                              |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Movement                     | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL  | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations          |   |  |  |   |   |   |  |  |  |  |  |  |
| Traffic Volume (veh/h)       | 351   | 6   | 440   | 0   | 0   | 0   | 0  | 586   | 702   | 402   | 875   | 0   |
| Future Volume (veh/h)        | 351   | 6   | 440   | 0   | 0   | 0   | 0  | 586   | 702   | 402   | 875   | 0   |
| Initial Q (Qb), veh          | 0   | 0   | 0   |   |   |   | 0  | 0   | 0   | 0   | 0   | 0   |
| Ped-Bike Adj(A_pbT)          | 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  |
| Work Zone On Approach        |   | No  |   |   |   |   |  | No  |   |   | No  |   |
| Adj Sat Flow, veh/h/ln       | 1560  | 1560  | 1516  |   |   |   | 0  | 1654  | 1859  | 2067  | 2007  | 0   |
| Adj Flow Rate, veh/h         | 355   | 6   | 444   |   |   |   | 0  | 592   | 709   | 406   | 884   | 0   |
| Peak Hour Factor             | 0.99  | 0.99  | 0.99  |   |   |   | 0.99   | 0.99  | 0.99  | 0.99  | 0.99  | 0.99  |
| Percent Heavy Veh, %         | 13  | 13  | 16  |   |   |   | 0  | 13  | 4   | 2   | 6   | 0   |
| Cap, veh/h                   | 543   | 9   | 477   |   |   |   | 0  | 917   | 459   | 522   | 1887  | 0   |
| Arrive On Green              | 0.37  | 0.37  | 0.37  |   |   |   | 0.00   | 0.29  | 0.29  | 0.05  | 0.16  | 0.00  |
| Sat Flow, veh/h              | 1462  | 25  | 1284  |   |   |   | 0  | 3226  | 1576  | 3818  | 3913  | 0   |
| Grp Volume(v), veh/h         | 361   | 0   | 444   |   |   |   | 0  | 592   | 709   | 406   | 884   | 0   |
| Grp Sat Flow(s),veh/h/ln     | 1487  | 0   | 1284  |   |   |   | 0  | 1572  | 1576  | 1909  | 1906  | 0   |
| Q Serve(g_s), s              | 15.1  | 0.0   | 24.9  |   |   |   | 0.0  | 12.3  | 21.9  | 7.9   | 15.8  | 0.0   |
| Cycle Q Clear(g_c), s        | 15.1  | 0.0   | 24.9  |   |   |   | 0.0  | 12.3  | 21.9  | 7.9   | 15.8  | 0.0   |
| Prop In Lane                 | 0.98  |   | 1.00  |   |   |   | 0.00   |   | 1.00  | 1.00  |   | 0.00  |
| Lane Grp Cap(c), veh/h       | 553   | 0   | 477   |   |   |   | 0  | 917   | 459   | 522   | 1887  | 0   |
| V/C Ratio(X)                 | 0.65  | 0.00  | 0.93  |   |   |   | 0.00   | 0.65  | 1.54  | 0.78  | 0.47  | 0.00  |
| Avail Cap(c_a), veh/h        | 615   | 0   | 531   |   |   |   | 0  | 917   | 459   | 662   | 1887  | 0   |
| HCM Platoon Ratio            | 1.00  | 1.00  | 1.00  |   |   |   | 1.00   | 1.00  | 1.00  | 0.33  | 0.33  | 1.00  |
| Upstream Filter(I)           | 1.00  | 0.00  | 1.00  |   |   |   | 0.00   | 1.00  | 1.00  | 0.58  | 0.58  | 0.00  |
| Uniform Delay (d), s/veh     | 19.6  | 0.0   | 22.6  |   |   |   | 0.0  | 23.2  | 26.6  | 34.7  | 22.4  | 0.0   |
| Incr Delay (d2), s/veh       | 1.5   | 0.0   | 21.0  |   |   |   | 0.0  | 3.5   | 255.1   | 2.0   | 0.5   | 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   |
| %ile BackOfQ(95%),veh/ln     | 8.8   | 0.0   | 14.8  |   |   |   | 0.0  | 8.4   | 62.7  | 6.5   | 11.6  | 0.0   |
| Unsig. Movement Delay, s/veh |   |   |   |   |   |   |  |   |   |   |   |   |
| LnGrp Delay(d),s/veh         | 21.0  | 0.0   | 43.6  |   |   |   | 0.0  | 26.7  | 281.7   | 36.7  | 22.9  | 0.0   |
| LnGrp LOS                    | C   | A   | D   |   |   |   | A  | C   | F   | D   | C   | A   |
| Approach Vol, veh/h          |   | 805   |   |   |   |   |  | 1301  |   |   | 1290  |   |
| Approach Delay, s/veh        |   | 33.5  |   |   |   |   |  | 165.7   |   |   | 27.2  |   |
| Approach LOS                 |   | C   |   |   |   |   |  | F   |   |   | C   |   |
| Timer - Assigned Phs         | 1   | 2   | 4   | 6   |   |   |  |   |   |   |   |   |
| Phs Duration (G+Y+Rc), s     | 15.3  | 26.9  | 32.9  | 42.1  |   |   |  |   |   |   |   |   |
| Change Period (Y+Rc), s      | 5.0   | 5.0   | 5.0   | 5.0   |   |   |  |   |   |   |   |   |
| Max Green Setting (Gmax), s  | 13.0  | 16.0  | 31.0  | 34.0  |   |   |  |   |   |   |   |   |
| Max Q Clear Time (g_c+I1), s | 9.9   | 0.0   | 26.9  | 0.0   |   |   |  |   |   |   |   |   |
| Green Ext Time (p_c), s      | 0.4   | 0.0   | 1.0   | 0.0   |   |   |  |   |   |   |   |   |
| <b>Intersection Summary</b>  |   |   |   |   |   |   |  |   |   |   |   |   |
| HCM 6th Ctrl Delay           |   |   | 81.8  |   |   |   |  |   |   |   |   |   |
| HCM 6th LOS                  |   |   | F   |   |   |   |  |   |   |   |   |   |

| Lane Group                | EBL  | EBT  | EBR  | WBL   | WBT   | WBR   | NBL   | NBT   | NBR  | SBL  | SBT   | SBR   |
|---------------------------|------|------|------|-------|-------|-------|-------|-------|------|------|-------|-------|
| Lane Configurations       |      |      |      |       |       |       |       |       |      |      |       |       |
| Traffic Volume (vph)      | 0    | 0    | 0    | 631   | 1     | 321   | 287   | 650   | 0    | 0    | 646   | 293   |
| Future Volume (vph)       | 0    | 0    | 0    | 631   | 1     | 321   | 287   | 650   | 0    | 0    | 646   | 293   |
| Ideal Flow (vphpl)        | 1900 | 1900 | 1900 | 1900  | 1900  | 1900  | 1900  | 1900  | 1900 | 1900 | 1900  | 1900  |
| Lane Width (ft)           | 12   | 12   | 12   | 12    | 12    | 12    | 11    | 10    | 10   | 12   | 12    | 12    |
| Grade (%)                 |      | 0%   |      |       | 0%    |       |       | 9%    |      |      | -7%   |       |
| Storage Length (ft)       | 0    |      | 0    | 520   |       | 350   | 105   |       | 0    | 0    |       | 140   |
| Storage Lanes             | 0    |      | 0    | 1     |       | 0     | 1     |       | 0    | 0    |       | 1     |
| Taper Length (ft)         | 145  |      |      | 145   |       |       | 100   |       |      | 25   |       |       |
| Lane Util. Factor         | 1.00 | 1.00 | 1.00 | 0.95  | 0.95  | 1.00  | 1.00  | 0.95  | 1.00 | 1.00 | 0.95  | 1.00  |
| Ped Bike Factor           |      |      |      |       |       |       | 1.00  |       |      |      |       | 0.98  |
| Fr <sub>t</sub>           |      |      |      |       |       | 0.850 |       |       |      |      |       | 0.850 |
| Fl <sub>t</sub> Protected |      |      |      | 0.950 | 0.952 |       | 0.950 |       |      |      |       |       |
| Satd. Flow (prot)         | 0    | 0    | 0    | 1603  | 1606  | 1553  | 1355  | 2979  | 0    | 0    | 3628  | 1534  |
| Fl <sub>t</sub> Permitted |      |      |      | 0.950 | 0.952 |       | 0.149 |       |      |      |       |       |
| Satd. Flow (perm)         | 0    | 0    | 0    | 1603  | 1606  | 1553  | 212   | 2979  | 0    | 0    | 3628  | 1500  |
| Right Turn on Red         |      |      | Yes  |       |       | Yes   |       |       | Yes  |      |       | Yes   |
| Satd. Flow (RTOR)         |      |      |      |       |       | 113   |       |       |      |      |       | 401   |
| Link Speed (mph)          |      | 30   |      |       | 30    |       |       | 30    |      |      |       | 30    |
| Link Distance (ft)        |      | 580  |      |       | 846   |       |       | 504   |      |      |       | 781   |
| Travel Time (s)           |      | 13.2 |      |       | 19.2  |       |       | 11.5  |      |      |       | 17.8  |
| Confl. Peds. (#/hr)       |      |      |      |       |       |       | 1     |       |      |      |       | 1     |
| Peak Hour Factor          | 0.73 | 0.73 | 0.73 | 0.73  | 0.73  | 0.73  | 0.73  | 0.73  | 0.73 | 0.73 | 0.73  | 0.73  |
| Heavy Vehicles (%)        | 0%   | 0%   | 0%   | 7%    | 0%    | 4%    | 23%   | 8%    | 0%   | 0%   | 3%    | 9%    |
| Shared Lane Traffic (%)   |      |      |      | 50%   |       |       |       |       |      |      |       |       |
| Lane Group Flow (vph)     | 0    | 0    | 0    | 432   | 433   | 440   | 393   | 890   | 0    | 0    | 885   | 401   |
| Turn Type                 |      |      |      | Perm  | NA    | Perm  | pm+pt | NA    |      |      | NA    | Perm  |
| Protected Phases          |      |      |      |       | 8     |       | 5     | 2     |      |      |       | 6     |
| Permitted Phases          |      |      |      | 8     |       | 8     | 2     |       |      |      |       | 6     |
| Detector Phase            |      |      |      | 8     | 8     | 8     | 5     | 2     |      |      |       | 6     |
| Switch Phase              |      |      |      |       |       |       |       |       |      |      |       |       |
| Minimum Initial (s)       |      |      |      | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  |      |      | 10.0  | 10.0  |
| Minimum Split (s)         |      |      |      | 15.0  | 15.0  | 15.0  | 15.0  | 15.0  |      |      | 15.0  | 15.0  |
| Total Split (s)           |      |      |      | 31.0  | 31.0  | 31.0  | 15.0  | 44.0  |      |      | 29.0  | 29.0  |
| Total Split (%)           |      |      |      | 41.3% | 41.3% | 41.3% | 20.0% | 58.7% |      |      | 38.7% | 38.7% |
| Maximum Green (s)         |      |      |      | 26.0  | 26.0  | 26.0  | 10.0  | 39.0  |      |      | 24.0  | 24.0  |
| Yellow Time (s)           |      |      |      | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |      |      | 3.0   | 3.0   |
| All-Red Time (s)          |      |      |      | 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)       |      |      |      | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |      |      | 5.0   | 5.0   |
| Lead/Lag                  |      |      |      |       |       |       | Lead  |       |      |      | Lag   | Lag   |
| Lead-Lag Optimize?        |      |      |      |       |       |       | Yes   |       |      |      | Yes   | Yes   |
| Vehicle Extension (s)     |      |      |      | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |      |      | 2.0   | 2.0   |
| Recall Mode               |      |      |      | None  | None  | None  | None  | C-Max |      |      | C-Max | C-Max |
| Act Effct Green (s)       |      |      |      | 23.5  | 23.5  | 23.5  | 41.5  | 41.5  |      |      | 26.5  | 26.5  |
| Actuated g/C Ratio        |      |      |      | 0.31  | 0.31  | 0.31  | 0.55  | 0.55  |      |      | 0.35  | 0.35  |
| v/c Ratio                 |      |      |      | 0.86  | 0.86  | 0.78  | 1.46  | 0.54  |      |      | 0.69  | 0.51  |
| Control Delay             |      |      |      | 42.2  | 42.3  | 27.5  | 244.9 | 11.4  |      |      | 24.8  | 7.3   |
| Queue Delay               |      |      |      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |      |      | 0.0   | 0.0   |

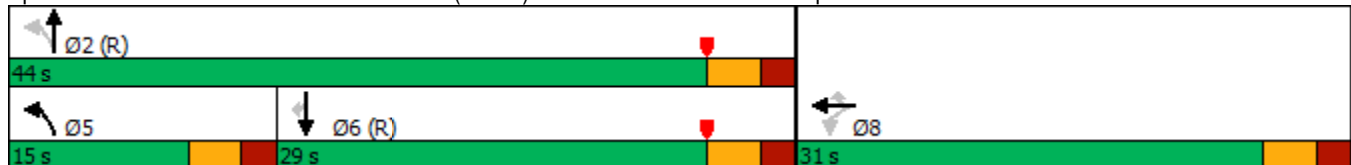


| Lane Group              | EBL | EBT | EBR | WBL  | WBT  | WBR  | NBL   | NBT  | NBR | SBL | SBT  | SBR  |
|-------------------------|-----|-----|-----|------|------|------|-------|------|-----|-----|------|------|
| Total Delay             |     |     |     | 42.2 | 42.3 | 27.5 | 244.9 | 11.4 |     |     | 24.8 | 7.3  |
| LOS                     |     |     |     | D    | D    | C    | F     | B    |     |     | C    | A    |
| Approach Delay          |     |     |     |      | 37.3 |      |       | 82.9 |     |     | 19.3 |      |
| Approach LOS            |     |     |     |      | D    |      |       | F    |     |     | B    |      |
| Queue Length 50th (ft)  |     |     |     | 186  | 186  | 130  | ~226  | 150  |     |     | 132  | 9    |
| Queue Length 95th (ft)  |     |     |     | 221  | 221  | 161  | #287  | 152  |     |     | 218  | 64   |
| Internal Link Dist (ft) |     | 500 |     |      | 766  |      |       | 424  |     |     | 701  |      |
| Turn Bay Length (ft)    |     |     |     | 520  |      | 350  | 105   |      |     |     |      | 140  |
| Base Capacity (vph)     |     |     |     | 555  | 556  | 612  | 269   | 1648 |     |     | 1281 | 789  |
| 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       |     |     |     | 0.78 | 0.78 | 0.72 | 1.46  | 0.54 |     |     | 0.69 | 0.51 |

Intersection Summary



















Area Type: Other  
 Cycle Length: 75  
 Actuated Cycle Length: 75  
 Offset: 46 (61%), Referenced to phase 2:NBTL and 6:SBT, Start of Yellow  
 Natural Cycle: 80  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.46  
 Intersection Signal Delay: 46.4      Intersection LOS: D  
 Intersection Capacity Utilization 87.2%      ICU Level of Service E  
 Analysis Period (min) 15  
 ~ 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.

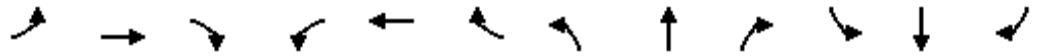
Splits and Phases: 40: North Airmont Road (CR 89) & I-87 NB/I-287 WB Off-Ramp





HCM 6th Edition methodology does not support turning movements with shared & exclusive lanes.

|                         |  |  |  |  |  |  |   |  |  |  |  |  |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group              | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations     |   |  |   |   |  |   |  |  |   |  |  |   |
| Traffic Volume (vph)    | 66  | 0   | 32  | 17  | 0   | 20  | 36  | 1305  | 10  | 22  | 1199  | 5   |
| Future Volume (vph)     | 66  | 0   | 32  | 17  | 0   | 20  | 36  | 1305  | 10  | 22  | 1199  | 5   |
| Ideal Flow (vphpl)      | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Lane Width (ft)         | 14  | 14  | 14  | 14  | 14  | 14  | 10  | 11  | 11  | 10  | 11  | 11  |
| Grade (%)               |   | 0%  |   |   | 0%  |   |   | 0%  |   |   |   | -4%   |
| Storage Length (ft)     | 0   |   | 0   | 0   |   | 0   | 130   |   | 0   | 155   |   | 0   |
| Storage Lanes           | 0   |   | 0   | 0   |   | 0   | 1   |   | 0   | 1   |   | 0   |
| Taper Length (ft)       | 25  |   |   | 25  |   |   | 25  |   |   | 25  |   |   |
| Lane Util. Factor       | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 0.95  | 0.95  | 1.00  | 0.95  | 0.95  |
| Frt                     |   | 0.955   |   |   | 0.928   |   |   | 0.999   |   |   | 0.999   |   |
| Flt Protected           |   | 0.968   |   |   | 0.977   |   | 0.950   |   |   | 0.950   |   |   |
| Satd. Flow (prot)       | 0   | 1725  | 0   | 0   | 1676  | 0   | 1574  | 3321  | 0   | 1718  | 3290  | 0   |
| Flt Permitted           |   | 0.774   |   |   | 0.880   |   | 0.140   |   |   | 0.131   |   |   |
| Satd. Flow (perm)       | 0   | 1379  | 0   | 0   | 1509  | 0   | 232   | 3321  | 0   | 237   | 3290  | 0   |
| Right Turn on Red       |   |   | Yes   |   |   | Yes   |   |   | Yes   |   |   | Yes   |
| Satd. Flow (RTOR)       |   | 73  |   |   | 73  |   |   | 1   |   |   | 1   |   |
| Link Speed (mph)        |   | 25  |   |   | 25  |   |   | 30  |   |   | 30  |   |
| Link Distance (ft)      |   | 182   |   |   | 462   |   |   | 185   |   |   | 144   |   |
| Travel Time (s)         |   | 5.0   |   |   | 12.6  |   |   | 4.2   |   |   | 3.3   |   |
| Peak Hour Factor        | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |
| Heavy Vehicles (%)      | 2%  | 0%  | 22%   | 0%  | 0%  | 18%   | 7%  | 5%  | 0%  | 0%  | 8%  | 25%   |
| Shared Lane Traffic (%) |   |   |   |   |   |   |   |   |   |   |   |   |
| Lane Group Flow (vph)   | 0   | 109   | 0   | 0   | 41  | 0   | 40  | 1461  | 0   | 24  | 1338  | 0   |
| Turn Type               | Perm  | NA  |   | Perm  | NA  |   | pm+pt   | NA  |   | pm+pt   | NA  |   |
| Protected Phases        |   | 4   |   |   | 8   |   | 5   | 2   |   | 1   | 6   |   |
| Permitted Phases        | 4   |   |   | 8   |   |   | 2   |   |   | 6   |   |   |
| Detector Phase          | 4   | 4   |   | 8   | 8   |   | 5   | 2   |   | 1   | 6   |   |
| Switch Phase            |   |   |   |   |   |   |   |   |   |   |   |   |
| Minimum Initial (s)     | 10.0  | 10.0  |   | 10.0  | 10.0  |   | 10.0  | 10.0  |   | 10.0  | 10.0  |   |
| Minimum Split (s)       | 14.0  | 14.0  |   | 14.0  | 14.0  |   | 14.0  | 14.0  |   | 14.0  | 14.0  |   |
| Total Split (s)         | 24.0  | 24.0  |   | 24.0  | 24.0  |   | 15.0  | 36.0  |   | 15.0  | 36.0  |   |
| Total Split (%)         | 32.0%   | 32.0%   |   | 32.0%   | 32.0%   |   | 20.0%   | 48.0%   |   | 20.0%   | 48.0%   |   |
| Maximum Green (s)       | 20.0  | 20.0  |   | 20.0  | 20.0  |   | 11.0  | 32.0  |   | 11.0  | 32.0  |   |
| Yellow Time (s)         | 3.0   | 3.0   |   | 3.0   | 3.0   |   | 3.5   | 3.0   |   | 3.5   | 3.0   |   |
| All-Red Time (s)        | 1.0   | 1.0   |   | 1.0   | 1.0   |   | 0.5   | 1.0   |   | 0.5   | 1.0   |   |
| Lost Time Adjust (s)    |   | 0.0   |   |   | 0.0   |   | 0.0   | 0.0   |   | 0.0   | 0.0   |   |
| Total Lost Time (s)     |   | 4.0   |   |   | 4.0   |   | 4.0   | 4.0   |   | 4.0   | 4.0   |   |
| Lead/Lag                |   |   |   |   |   |   | Lead  | Lag   |   | Lead  | Lag   |   |
| Lead-Lag Optimize?      |   |   |   |   |   |   | Yes   | Yes   |   | Yes   | Yes   |   |
| Vehicle Extension (s)   | 6.0   | 6.0   |   | 6.0   | 6.0   |   | 6.0   | 6.0   |   | 6.0   | 6.0   |   |
| Recall Mode             | None  | None  |   | None  | None  |   | None  | C-Max   |   | None  | C-Max   |   |
| Walk Time (s)           | 5.0   | 5.0   |   | 5.0   | 5.0   |   |   | 5.0   |   |   | 5.0   |   |
| Flash Dont Walk (s)     | 11.0  | 11.0  |   | 11.0  | 11.0  |   |   | 11.0  |   |   | 11.0  |   |
| Pedestrian Calls (#/hr) | 0   | 0   |   | 0   | 0   |   |   | 0   |   |   | 0   |   |
| Act Effct Green (s)     |   | 11.5  |   |   | 11.5  |   | 56.7  | 53.5  |   | 55.9  | 50.7  |   |
| Actuated g/C Ratio      |   | 0.15  |   |   | 0.15  |   | 0.76  | 0.71  |   | 0.75  | 0.68  |   |
| v/c Ratio               |   | 0.40  |   |   | 0.14  |   | 0.11  | 0.62  |   | 0.06  | 0.60  |   |
| Control Delay           |   | 16.3  |   |   | 3.8   |   | 3.9   | 11.2  |   | 3.0   | 8.5   |   |



| Lane Group              | EBL | EBT  | EBR | WBL | WBT  | WBR | NBL  | NBT  | NBR | SBL  | SBT  | SBR |
|-------------------------|-----|------|-----|-----|------|-----|------|------|-----|------|------|-----|
| Queue Delay             |     | 0.0  |     |     | 0.0  |     | 0.0  | 0.0  |     | 0.0  | 0.0  |     |
| Total Delay             |     | 16.3 |     |     | 3.8  |     | 3.9  | 11.2 |     | 3.0  | 8.5  |     |
| LOS                     |     | B    |     |     | A    |     | A    | B    |     | A    | A    |     |
| Approach Delay          |     | 16.3 |     |     | 3.8  |     |      | 11.0 |     |      | 8.4  |     |
| Approach LOS            |     | B    |     |     | A    |     |      | B    |     |      | A    |     |
| Queue Length 50th (ft)  |     | 15   |     |     | 0    |     | 4    | 117  |     | 2    | 175  |     |
| Queue Length 95th (ft)  |     | 55   |     |     | 11   |     | 13   | #415 |     | m5   | 213  |     |
| Internal Link Dist (ft) |     | 102  |     |     | 382  |     |      | 105  |     |      | 64   |     |
| Turn Bay Length (ft)    |     |      |     |     |      |     | 130  |      |     | 155  |      |     |
| Base Capacity (vph)     |     | 421  |     |     | 455  |     | 373  | 2368 |     | 395  | 2223 |     |
| Starvation Cap Reductn  |     | 0    |     |     | 0    |     | 0    | 0    |     | 0    | 0    |     |
| Spillback Cap Reductn   |     | 0    |     |     | 0    |     | 0    | 0    |     | 0    | 0    |     |
| Storage Cap Reductn     |     | 0    |     |     | 0    |     | 0    | 0    |     | 0    | 0    |     |
| Reduced v/c Ratio       |     | 0.26 |     |     | 0.09 |     | 0.11 | 0.62 |     | 0.06 | 0.60 |     |

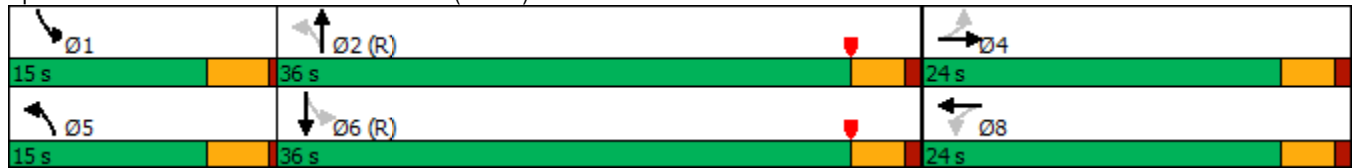
**Intersection Summary**



















Area Type: Other  
 Cycle Length: 75  
 Actuated Cycle Length: 75  
 Offset: 72 (96%), Referenced to phase 2:NBTL and 6:SBTL, Start of Yellow  
 Natural Cycle: 60  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.62  
 Intersection Signal Delay: 9.9  
 Intersection Capacity Utilization 51.5%  
 Analysis Period (min) 15  
 Intersection LOS: A  
 ICU Level of Service A
























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

m Volume for 95th percentile queue is metered by upstream signal.

**Splits and Phases: 50: North Airmont Road (CR 89) & North DeBaun Avenue**



|                              |  |  |  |  |  |  |   |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement                     | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations          |   |  |   |   |  |   |  |  |   |  |  |   |
| Traffic Volume (veh/h)       | 66  | 0   | 32  | 17  | 0   | 20  | 36  | 1305  | 10  | 22  | 1199  | 5   |
| Future Volume (veh/h)        | 66  | 0   | 32  | 17  | 0   | 20  | 36  | 1305  | 10  | 22  | 1199  | 5   |
| Initial Q (Qb), veh          | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 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  |   |
| Adj Sat Flow, veh/h/ln       | 1945  | 1976  | 1637  | 1976  | 1976  | 1699  | 1796  | 1826  | 1900  | 2057  | 1937  | 1682  |
| Adj Flow Rate, veh/h         | 73  | 0   | 36  | 19  | 0   | 22  | 40  | 1450  | 11  | 24  | 1332  | 6   |
| Peak Hour Factor             | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |
| Percent Heavy Veh, %         | 2   | 0   | 22  | 0   | 0   | 18  | 7   | 5   | 0   | 0   | 8   | 25  |
| Cap, veh/h                   | 199   | 16  | 67  | 147   | 24  | 117   | 397   | 2329  | 18  | 368   | 2394  | 11  |
| Arrive On Green              | 0.13  | 0.00  | 0.13  | 0.13  | 0.00  | 0.13  | 0.08  | 0.66  | 0.66  | 0.05  | 0.64  | 0.64  |
| Sat Flow, veh/h              | 934   | 128   | 524   | 601   | 192   | 918   | 1711  | 3529  | 27  | 1959  | 3758  | 17  |
| Grp Volume(v), veh/h         | 109   | 0   | 0   | 41  | 0   | 0   | 40  | 712   | 749   | 24  | 652   | 686   |
| Grp Sat Flow(s),veh/h/ln     | 1586  | 0   | 0   | 1712  | 0   | 0   | 1711  | 1735  | 1821  | 1959  | 1840  | 1934  |
| Q Serve(g_s), s              | 3.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 17.8  | 17.8  | 0.3   | 14.9  | 14.9  |
| Cycle Q Clear(g_c), s        | 4.6   | 0.0   | 0.0   | 1.5   | 0.0   | 0.0   | 0.5   | 17.8  | 17.8  | 0.3   | 14.9  | 14.9  |
| Prop In Lane                 | 0.67  |   | 0.33  | 0.46  |   | 0.54  | 1.00  |   | 0.01  | 1.00  |   | 0.01  |
| Lane Grp Cap(c), veh/h       | 282   | 0   | 0   | 288   | 0   | 0   | 397   | 1145  | 1202  | 368   | 1173  | 1232  |
| V/C Ratio(X)                 | 0.39  | 0.00  | 0.00  | 0.14  | 0.00  | 0.00  | 0.10  | 0.62  | 0.62  | 0.07  | 0.56  | 0.56  |
| Avail Cap(c_a), veh/h        | 495   | 0   | 0   | 506   | 0   | 0   | 519   | 1145  | 1202  | 552   | 1173  | 1232  |
| 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(I)           | 1.00  | 0.00  | 0.00  | 1.00  | 0.00  | 0.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Uniform Delay (d), s/veh     | 30.5  | 0.0   | 0.0   | 29.2  | 0.0   | 0.0   | 4.8   | 7.4   | 7.4   | 5.5   | 7.6   | 7.6   |
| Incr Delay (d2), s/veh       | 3.1   | 0.0   | 0.0   | 0.8   | 0.0   | 0.0   | 0.4   | 2.6   | 2.4   | 0.3   | 1.9   | 1.8   |
| 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(95%),veh/ln     | 3.7   | 0.0   | 0.0   | 1.3   | 0.0   | 0.0   | 0.3   | 9.9   | 10.2  | 0.2   | 9.1   | 9.5   |
| Unsig. Movement Delay, s/veh |   |   |   |   |   |   |   |   |   |   |   |   |
| LnGrp Delay(d),s/veh         | 33.6  | 0.0   | 0.0   | 30.0  | 0.0   | 0.0   | 5.2   | 9.9   | 9.8   | 5.8   | 9.6   | 9.5   |
| LnGrp LOS                    | C   | A   | A   | C   | A   | A   | A   | A   | A   | A   | A   | A   |
| Approach Vol, veh/h          |   | 109   |   |   | 41  |   |   | 1501  |   |   | 1362  |   |
| Approach Delay, s/veh        |   | 33.6  |   |   | 30.0  |   |   | 9.7   |   |   | 9.4   |   |
| Approach LOS                 |   | C   |   |   | C   |   |   | A   |   |   | A   |   |
| Timer - Assigned Phs         | 1   | 2   |   | 4   | 5   | 6   |   | 8   |   |   |   |   |
| Phs Duration (G+Y+Rc), s     | 7.9   | 53.5  |   | 13.6  | 9.7   | 51.8  |   | 13.6  |   |   |   |   |
| Change Period (Y+Rc), s      | 4.0   | 4.0   |   | 4.0   | 4.0   | 4.0   |   | 4.0   |   |   |   |   |
| Max Green Setting (Gmax), s  | 11.0  | 32.0  |   | 20.0  | 11.0  | 32.0  |   | 20.0  |   |   |   |   |
| Max Q Clear Time (g_c+I1), s | 2.3   | 19.8  |   | 6.6   | 2.5   | 16.9  |   | 3.5   |   |   |   |   |
| Green Ext Time (p_c), s      | 0.0   | 11.0  |   | 0.9   | 0.1   | 12.8  |   | 0.3   |   |   |   |   |
| <b>Intersection Summary</b>  |   |   |   |   |   |   |   |   |   |   |   |   |
| HCM 6th Ctrl Delay           |   |   |   | 10.7  |   |   |   |   |   |   |   |   |
| HCM 6th LOS                  |   |   |   | B   |   |   |   |   |   |   |   |   |

|                         |  |  |  |  |  |  |   |  |  |  |  |  |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group              | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations     |   |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (vph)    | 99  | 24  | 360   | 14  | 6   | 13  | 186   | 546   | 79  | 33  | 652   | 90  |
| Future Volume (vph)     | 99  | 24  | 360   | 14  | 6   | 13  | 186   | 546   | 79  | 33  | 652   | 90  |
| Ideal Flow (vphpl)      | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Lane Width (ft)         | 12  | 12  | 10  | 11  | 10  | 10  | 11  | 12  | 12  | 13  | 13  | 11  |
| Grade (%)               |   | 6%  |   |   | -6%   |   |   | 2%  |   |   | -4%   |   |
| Storage Length (ft)     | 0   |   | 140   | 90  |   | 35  | 290   |   | 0   | 290   |   | 0   |
| Storage Lanes           | 0   |   | 1   | 1   |   | 1   | 1   |   | 0   | 1   |   | 0   |
| Taper Length (ft)       | 25  |   |   | 25  |   |   | 65  |   |   | 50  |   |   |
| Lane Util. Factor       | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 0.95  | 0.95  | 1.00  | 0.95  | 0.95  |
| Frt                     |   |   | 0.850   |   |   |   | 0.850   |   | 0.981   |   |   | 0.982   |
| Flt Protected           |   | 0.961   |   | 0.950   |   |   | 0.950   |   |   | 0.950   |   |   |
| Satd. Flow (prot)       | 0   | 1727  | 1433  | 1797  | 913   | 1242  | 1645  | 3224  | 0   | 1762  | 3448  | 0   |
| Flt Permitted           |   | 0.764   |   | 0.655   |   |   | 0.246   |   |   | 0.387   |   |   |
| Satd. Flow (perm)       | 0   | 1373  | 1433  | 1239  | 913   | 1242  | 426   | 3224  | 0   | 718   | 3448  | 0   |
| Right Turn on Red       |   |   | Yes   |   |   | Yes   |   |   | Yes   |   |   | Yes   |
| Satd. Flow (RTOR)       |   |   | 91  |   |   | 102   |   |   | 25  |   |   | 23  |
| Link Speed (mph)        |   | 30  |   |   | 25  |   |   | 30  |   |   | 30  |   |
| Link Distance (ft)      |   | 682   |   |   | 448   |   |   | 781   |   |   | 587   |   |
| Travel Time (s)         |   | 15.5  |   |   | 12.2  |   |   | 17.8  |   |   | 13.3  |   |
| Peak Hour Factor        | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |
| Heavy Vehicles (%)      | 1%  | 9%  | 2%  | 0%  | 100%  | 25%   | 5%  | 10%   | 0%  | 8%  | 8%  | 11%   |
| Shared Lane Traffic (%) |   |   |   |   |   |   |   |   |   |   |   |   |
| Lane Group Flow (vph)   | 0   | 137   | 400   | 16  | 7   | 14  | 207   | 695   | 0   | 37  | 824   | 0   |
| Turn Type               | Perm  | NA  | pm+ov   | Perm  | NA  | Perm  | pm+pt   | NA  |   | pm+pt   | NA  |   |
| Protected Phases        |   | 4   | 5   |   | 8   |   | 5   | 2   |   | 1   | 6   |   |
| Permitted Phases        | 4   |   | 4   | 8   |   | 8   | 2   |   |   | 6   |   |   |
| Detector Phase          | 4   | 4   | 5   | 8   | 8   | 8   | 5   | 2   |   | 1   | 6   |   |
| Switch Phase            |   |   |   |   |   |   |   |   |   |   |   |   |
| Minimum Initial (s)     | 10.0  | 10.0  | 5.0   | 10.0  | 10.0  | 10.0  | 5.0   | 10.0  |   | 5.0   | 10.0  |   |
| Minimum Split (s)       | 15.0  | 15.0  | 10.0  | 15.0  | 15.0  | 15.0  | 10.0  | 15.0  |   | 10.0  | 15.0  |   |
| Total Split (s)         | 30.0  | 30.0  | 11.0  | 30.0  | 30.0  | 30.0  | 11.0  | 34.0  |   | 11.0  | 34.0  |   |
| Total Split (%)         | 40.0%   | 40.0%   | 14.7%   | 40.0%   | 40.0%   | 40.0%   | 14.7%   | 45.3%   |   | 14.7%   | 45.3%   |   |
| Maximum Green (s)       | 25.0  | 25.0  | 6.0   | 25.0  | 25.0  | 25.0  | 6.0   | 29.0  |   | 6.0   | 29.0  |   |
| 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)        | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |   | 1.0   | 1.0   |   |
| Lost Time Adjust (s)    |   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |   | 0.0   | 0.0   |   |
| Total Lost Time (s)     |   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |   | 5.0   | 5.0   |   |
| Lead/Lag                |   |   | Lead  |   |   |   | Lead  | Lag   |   | Lead  | Lag   |   |
| Lead-Lag Optimize?      |   |   | Yes   |   |   |   | Yes   | Yes   |   | Yes   | Yes   |   |
| Vehicle Extension (s)   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |   | 3.0   | 3.0   |   |
| Recall Mode             | None  | None  | None  | None  | None  | None  | None  | C-Min   |   | None  | C-Min   |   |
| Act Effct Green (s)     |   | 13.4  | 26.5  | 13.4  | 13.4  | 13.4  | 54.3  | 48.6  |   | 44.7  | 38.5  |   |
| Actuated g/C Ratio      |   | 0.18  | 0.35  | 0.18  | 0.18  | 0.18  | 0.72  | 0.65  |   | 0.60  | 0.51  |   |
| v/c Ratio               |   | 0.56  | 0.71  | 0.07  | 0.04  | 0.05  | 0.42  | 0.33  |   | 0.07  | 0.46  |   |
| Control Delay           |   | 36.4  | 21.8  | 24.2  | 23.8  | 0.3   | 8.1   | 5.0   |   | 5.7   | 14.2  |   |
| Queue Delay             |   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |   | 0.0   | 0.0   |   |
| Total Delay             |   | 36.4  | 21.8  | 24.2  | 23.8  | 0.3   | 8.1   | 5.0   |   | 5.7   | 14.2  |   |
| LOS                     |   | D   | C   | C   | C   | A   | A   | A   |   | A   | B   |   |

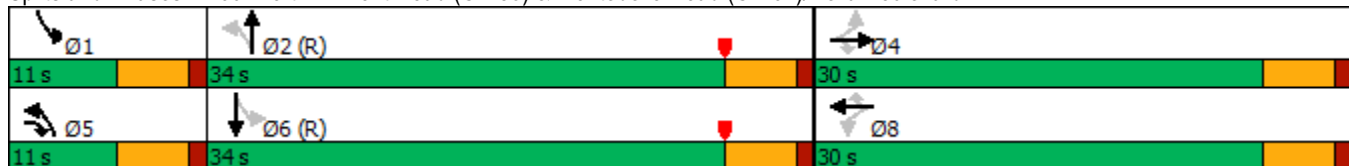


| Lane Group              | EBL | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR | SBL  | SBT | SBR  |
|-------------------------|-----|------|------|------|------|------|------|------|-----|------|-----|------|
| Approach Delay          |     | 25.5 |      |      | 15.1 |      |      | 5.8  |     |      |     | 13.8 |
| Approach LOS            |     | C    |      |      | B    |      |      | A    |     |      |     | B    |
| Queue Length 50th (ft)  |     | 59   | 118  | 6    | 3    | 0    | 17   | 48   |     | 4    |     | 120  |
| Queue Length 95th (ft)  |     | 104  | 173  | 21   | 12   | 0    | m53  | 83   |     | 16   |     | 211  |
| Internal Link Dist (ft) |     | 602  |      |      | 368  |      |      | 701  |     |      |     | 507  |
| Turn Bay Length (ft)    |     |      | 140  | 90   |      | 35   | 290  |      |     | 290  |     |      |
| Base Capacity (vph)     |     | 457  | 566  | 413  | 304  | 482  | 488  | 2098 |     | 517  |     | 1779 |
| Starvation Cap Reductn  |     | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     | 0    |     | 0    |
| Spillback Cap Reductn   |     | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     | 0    |     | 0    |
| Storage Cap Reductn     |     | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     | 0    |     | 0    |
| Reduced v/c Ratio       |     | 0.30 | 0.71 | 0.04 | 0.02 | 0.03 | 0.42 | 0.33 |     | 0.07 |     | 0.46 |
























Intersection Summary

|   |  |
|---|--|
| Area Type:  | Other  |
| Cycle Length:   | 75   |
| Actuated Cycle Length:  | 75   |
| Offset:   | 55 (73%), Referenced to phase 2:NBTL and 6:SBTL, Start of Yellow |
| Natural Cycle:  | 60   |
| Control Type:   | Actuated-Coordinated   |
| Maximum v/c Ratio:  | 0.71   |
| Intersection Signal Delay:  | 13.4   |
| Intersection LOS:   | B  |
| Intersection Capacity Utilization:                                | 64.0%  |
| ICU Level of Service:   | C  |
| Analysis Period (min):  | 15   |
| m Volume for 95th percentile queue is metered by upstream signal. |  |

Splits and Phases: 60: North Airmont Road (CR 89) & Montebello Road (CR 64)/Rella Boulevard





|                              |  |  |  |  |  |  |   |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement                     | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations          |   |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h)       | 99  | 24  | 360   | 14  | 6   | 13  | 186   | 546   | 79  | 33  | 652   | 90  |
| Future Volume (veh/h)        | 99  | 24  | 360   | 14  | 6   | 13  | 186   | 546   | 79  | 33  | 652   | 90  |
| Initial Q (Qb), veh          | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 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  |   |
| Adj Sat Flow, veh/h/ln       | 1673  | 1555  | 1658  | 2136  | 635   | 1761  | 1802  | 1728  | 1876  | 2015  | 2015  | 1892  |
| Adj Flow Rate, veh/h         | 110   | 27  | 400   | 16  | 7   | 14  | 207   | 607   | 88  | 37  | 724   | 100   |
| Peak Hour Factor             | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |
| Percent Heavy Veh, %         | 1   | 9   | 2   | 0   | 100   | 25  | 5   | 10  | 0   | 8   | 8   | 11  |
| Cap, veh/h                   | 365   | 78  | 519   | 573   | 184   | 432   | 410   | 1367  | 198   | 512   | 1455  | 201   |
| Arrive On Green              | 0.29  | 0.29  | 0.29  | 0.29  | 0.29  | 0.29  | 0.16  | 0.95  | 0.95  | 0.04  | 0.43  | 0.43  |
| Sat Flow, veh/h              | 961   | 271   | 1405  | 1580  | 635   | 1492  | 1717  | 2879  | 416   | 1919  | 3378  | 466   |
| Grp Volume(v), veh/h         | 137   | 0   | 400   | 16  | 7   | 14  | 207   | 346   | 349   | 37  | 410   | 414   |
| Grp Sat Flow(s),veh/h/ln     | 1232  | 0   | 1405  | 1580  | 635   | 1492  | 1717  | 1642  | 1653  | 1919  | 1914  | 1931  |
| Q Serve(g_s), s              | 6.1   | 0.0   | 18.8  | 0.0   | 0.6   | 0.5   | 5.3   | 1.4   | 1.4   | 0.8   | 11.6  | 11.7  |
| Cycle Q Clear(g_c), s        | 6.6   | 0.0   | 18.8  | 0.5   | 0.6   | 0.5   | 5.3   | 1.4   | 1.4   | 0.8   | 11.6  | 11.7  |
| Prop In Lane                 | 0.80  |   | 1.00  | 1.00  |   | 1.00  | 1.00  |   | 0.25  | 1.00  |   | 0.24  |
| Lane Grp Cap(c), veh/h       | 443   | 0   | 519   | 573   | 184   | 432   | 410   | 780   | 785   | 512   | 824   | 831   |
| V/C Ratio(X)                 | 0.31  | 0.00  | 0.77  | 0.03  | 0.04  | 0.03  | 0.51  | 0.44  | 0.45  | 0.07  | 0.50  | 0.50  |
| Avail Cap(c_a), veh/h        | 497   | 0   | 581   | 643   | 212   | 497   | 410   | 780   | 785   | 597   | 824   | 831   |
| HCM Platoon Ratio            | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 2.00  | 2.00  | 2.00  | 1.00  | 1.00  | 1.00  |
| Upstream Filter(I)           | 1.00  | 0.00  | 1.00  | 1.00  | 1.00  | 1.00  | 0.75  | 0.75  | 0.75  | 1.00  | 1.00  | 1.00  |
| Uniform Delay (d), s/veh     | 21.3  | 0.0   | 20.8  | 19.1  | 19.1  | 19.1  | 10.5  | 1.0   | 1.0   | 10.9  | 15.5  | 15.5  |
| Incr Delay (d2), s/veh       | 0.4   | 0.0   | 5.6   | 0.0   | 0.1   | 0.0   | 0.8   | 1.4   | 1.4   | 0.1   | 2.1   | 2.1   |
| 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   | 0.0   |
| %ile BackOfQ(95%),veh/ln     | 3.4   | 0.0   | 10.9  | 0.4   | 0.2   | 0.3   | 2.9   | 1.0   | 1.0   | 0.6   | 8.9   | 9.0   |
| Unsig. Movement Delay, s/veh |   |   |   |   |   |   |   |   |   |   |   |   |
| LnGrp Delay(d),s/veh         | 21.7  | 0.0   | 26.5  | 19.1  | 19.2  | 19.1  | 11.2  | 2.4   | 2.4   | 10.9  | 17.6  | 17.6  |
| LnGrp LOS                    | C   | A   | C   | B   | B   | B   | B   | A   | A   | B   | B   | B   |
| Approach Vol, veh/h          |   | 537   |   |   | 37  |   |   | 902   |   |   | 861   |   |
| Approach Delay, s/veh        |   | 25.3  |   |   | 19.2  |   |   | 4.4   |   |   | 17.3  |   |
| Approach LOS                 |   | C   |   |   | B   |   |   | A   |   |   | B   |   |
| Timer - Assigned Phs         | 1   | 2   |   | 4   | 5   | 6   |   | 8   |   |   |   |   |
| Phs Duration (G+Y+Rc), s     | 7.7   | 40.6  |   | 26.7  | 11.0  | 37.3  |   | 26.7  |   |   |   |   |
| Change Period (Y+Rc), s      | 5.0   | 5.0   |   | 5.0   | 5.0   | 5.0   |   | 5.0   |   |   |   |   |
| Max Green Setting (Gmax), s  | 6.0   | 29.0  |   | 25.0  | 6.0   | 29.0  |   | 25.0  |   |   |   |   |
| Max Q Clear Time (g_c+I1), s | 2.8   | 3.4   |   | 20.8  | 7.3   | 13.7  |   | 2.6   |   |   |   |   |
| Green Ext Time (p_c), s      | 0.0   | 2.5   |   | 0.9   | 0.0   | 2.7   |   | 0.1   |   |   |   |   |
| <b>Intersection Summary</b>  |   |   |   |   |   |   |   |   |   |   |   |   |
| HCM 6th Ctrl Delay           |   |   | 14.2  |   |   |   |   |   |   |   |   |   |
| HCM 6th LOS                  |   |   | B   |   |   |   |   |   |   |   |   |   |

| Intersection             |      |      |      |      |      |      |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh         | 0.4  |      |      |      |      |      |
| Movement                 | WBL  | WBR  | NBT  | NBR  | SBL  | SBT  |
| Lane Configurations      |      |      |      |      |      |      |
| Traffic Vol, veh/h       | 8    | 10   | 419  | 16   | 10   | 483  |
| Future Vol, veh/h        | 8    | 10   | 419  | 16   | 10   | 483  |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Stop | Stop | Free | Free | Free | Free |
| RT Channelized           | -    | None | -    | None | -    | None |
| Storage Length           | 0    | -    | -    | -    | -    | -    |
| Veh in Median Storage, # | 0    | -    | 0    | -    | -    | 0    |
| Grade, %                 | -8   | -    | -1   | -    | -    | -3   |
| Peak Hour Factor         | 63   | 63   | 63   | 63   | 63   | 63   |
| Heavy Vehicles, %        | 0    | 0    | 8    | 0    | 0    | 7    |
| Mvmt Flow                | 13   | 16   | 665  | 25   | 16   | 767  |

| Major/Minor          | Minor1 | Major1 | Major2 |   |     |
|----------------------|--------|--------|--------|---|-----|
| Conflicting Flow All | 1477   | 678    | 0      | 0 | 690 |
| Stage 1              | 678    | -      | -      | - | -   |
| Stage 2              | 799    | -      | -      | - | -   |
| Critical Hdwy        | 4.8    | 5.4    | -      | - | 4.1 |
| Critical Hdwy Stg 1  | 3.8    | -      | -      | - | -   |
| Critical Hdwy Stg 2  | 3.8    | -      | -      | - | -   |
| Follow-up Hdwy       | 3.5    | 3.3    | -      | - | 2.2 |
| Pot Cap-1 Maneuver   | 270    | 530    | -      | - | 914 |
| Stage 1              | 687    | -      | -      | - | -   |
| Stage 2              | 636    | -      | -      | - | -   |
| Platoon blocked, %   |        |        | -      | - | -   |
| Mov Cap-1 Maneuver   | 262    | 530    | -      | - | 914 |
| Mov Cap-2 Maneuver   | 262    | -      | -      | - | -   |
| Stage 1              | 687    | -      | -      | - | -   |
| Stage 2              | 617    | -      | -      | - | -   |

| Approach             | WB   | NB | SB  |
|----------------------|------|----|-----|
| HCM Control Delay, s | 15.7 | 0  | 0.2 |
| HCM LOS              | C    |    |     |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL   | SBT   |
|-----------------------|-----|----------|-------|-------|
| Capacity (veh/h)      | -   | -        | 364   | 914   |
| HCM Lane V/C Ratio    | -   | -        | 0.078 | 0.017 |
| HCM Control Delay (s) | -   | -        | 15.7  | 9     |
| HCM Lane LOS          | -   | -        | C     | A     |
| HCM 95th %tile Q(veh) | -   | -        | 0.3   | 0.1   |

| Intersection             |      |      |      |      |      |      |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh         | 2    |      |      |      |      |      |
| Movement                 | EBT  | EBR  | WBL  | WBT  | NBL  | NBR  |
| Lane Configurations      |      |      |      |      |      |      |
| Traffic Vol, veh/h       | 671  | 19   | 76   | 708  | 7    | 144  |
| Future Vol, veh/h        | 671  | 19   | 76   | 708  | 7    | 144  |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Free | Free | Free | Free | Stop | Stop |
| RT Channelized           | -    | None | -    | None | -    | None |
| Storage Length           | -    | -    | 0    | -    | 0    | -    |
| Veh in Median Storage, # | 0    | -    | -    | 0    | 0    | -    |
| Grade, %                 | -4   | -    | -    | 2    | -4   | -    |
| Peak Hour Factor         | 96   | 96   | 96   | 96   | 96   | 96   |
| Heavy Vehicles, %        | 6    | 6    | 11   | 7    | 17   | 3    |
| Mvmt Flow                | 699  | 20   | 79   | 738  | 7    | 150  |

| Major/Minor          | Major1 | Major2 | Minor1 |   |             |
|----------------------|--------|--------|--------|---|-------------|
| Conflicting Flow All | 0      | 0      | 719    | 0 | 1605 709    |
| Stage 1              | -      | -      | -      | - | 709 -       |
| Stage 2              | -      | -      | -      | - | 896 -       |
| Critical Hdwy        | -      | -      | 4.21   | - | 5.77 5.83   |
| Critical Hdwy Stg 1  | -      | -      | -      | - | 4.77 -      |
| Critical Hdwy Stg 2  | -      | -      | -      | - | 4.77 -      |
| Follow-up Hdwy       | -      | -      | 2.299  | - | 3.653 3.327 |
| Pot Cap-1 Maneuver   | -      | -      | 842    | - | 152 468     |
| Stage 1              | -      | -      | -      | - | 540 -       |
| Stage 2              | -      | -      | -      | - | 458 -       |
| Platoon blocked, %   | -      | -      | -      | - | -           |
| Mov Cap-1 Maneuver   | -      | -      | 842    | - | 138 468     |
| Mov Cap-2 Maneuver   | -      | -      | -      | - | 276 -       |
| Stage 1              | -      | -      | -      | - | 540 -       |
| Stage 2              | -      | -      | -      | - | 415 -       |

| Approach             | EB | WB  | NB   |
|----------------------|----|-----|------|
| HCM Control Delay, s | 0  | 0.9 | 17.1 |
| HCM LOS              |    |     | C    |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL   | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h)      | 453   | -   | -   | 842   | -   |
| HCM Lane V/C Ratio    | 0.347 | -   | -   | 0.094 | -   |
| HCM Control Delay (s) | 17.1  | -   | -   | 9.7   | -   |
| HCM Lane LOS          | C     | -   | -   | A     | -   |
| HCM 95th %tile Q(veh) | 1.5   | -   | -   | 0.3   | -   |

| Intersection             |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh         | 22.5 |      |      |      |      |      |      |      |      |      |      |      |
| Movement                 | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
| Lane Configurations      |      | ↕    |      |      | ↕    |      |      | ↕    |      |      | ↕    |      |
| Traffic Vol, veh/h       | 0    | 142  | 196  | 234  | 72   | 2    | 85   | 1    | 142  | 2    | 1    | 0    |
| Future Vol, veh/h        | 0    | 142  | 196  | 234  | 72   | 2    | 85   | 1    | 142  | 2    | 1    | 0    |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized           | -    | -    | None | -    | -    | None | -    | -    | None | -    | -    | None |
| Storage Length           | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| Veh in Median Storage, # | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Grade, %                 | -    | 6    | -    | -    | -2   | -    | -    | -4   | -    | -    | -2   | -    |
| Peak Hour Factor         | 72   | 72   | 72   | 72   | 72   | 72   | 72   | 72   | 72   | 72   | 72   | 72   |
| Heavy Vehicles, %        | 0    | 5    | 11   | 8    | 7    | 0    | 12   | 0    | 12   | 0    | 0    | 0    |
| Mvmt Flow                | 0    | 197  | 272  | 325  | 100  | 3    | 118  | 1    | 197  | 3    | 1    | 0    |

| Major/Minor          | Major1 |   |   | Major2 |   |   | Minor1 |      |       | Minor2 |      |     |
|----------------------|--------|---|---|--------|---|---|--------|------|-------|--------|------|-----|
| Conflicting Flow All | 103    | 0 | 0 | 469    | 0 | 0 | 1085   | 1086 | 333   | 1184   | 1221 | 102 |
| Stage 1              | -      | - | - | -      | - | - | 333    | 333  | -     | 752    | 752  | -   |
| Stage 2              | -      | - | - | -      | - | - | 752    | 753  | -     | 432    | 469  | -   |
| Critical Hdwy        | 4.1    | - | - | 4.18   | - | - | 6.42   | 5.7  | 5.92  | 6.7    | 6.1  | 6   |
| Critical Hdwy Stg 1  | -      | - | - | -      | - | - | 5.42   | 4.7  | -     | 5.7    | 5.1  | -   |
| Critical Hdwy Stg 2  | -      | - | - | -      | - | - | 5.42   | 4.7  | -     | 5.7    | 5.1  | -   |
| Follow-up Hdwy       | 2.2    | - | - | 2.272  | - | - | 3.608  | 4    | 3.408 | 3.5    | 4    | 3.3 |
| Pot Cap-1 Maneuver   | 1502   | - | - | 1062   | - | - | 236    | 278  | 712   | 191    | 208  | 964 |
| Stage 1              | -      | - | - | -      | - | - | 711    | 697  | -     | 441    | 458  | -   |
| Stage 2              | -      | - | - | -      | - | - | 458    | 497  | -     | 636    | 594  | -   |
| Platoon blocked, %   | -      | - | - | -      | - | - | -      | -    | -     | -      | -    | -   |
| Mov Cap-1 Maneuver   | 1502   | - | - | 1062   | - | - | 175    | 188  | 712   | 103    | 140  | 964 |
| Mov Cap-2 Maneuver   | -      | - | - | -      | - | - | 175    | 188  | -     | 103    | 140  | -   |
| Stage 1              | -      | - | - | -      | - | - | 711    | 697  | -     | 441    | 309  | -   |
| Stage 2              | -      | - | - | -      | - | - | 308    | 335  | -     | 459    | 594  | -   |

| Approach             | EB |  |  | WB  |  |  | NB   |  |  | SB   |  |  |
|----------------------|----|--|--|-----|--|--|------|--|--|------|--|--|
| HCM Control Delay, s | 0  |  |  | 7.5 |  |  | 76.1 |  |  | 38.1 |  |  |
| HCM LOS              |    |  |  |     |  |  | F    |  |  | E    |  |  |

| Minor Lane/Major Mvmt | NBLn1 | EBL  | EBT | EBR | WBL   | WBT | WBR | SBLn1 |
|-----------------------|-------|------|-----|-----|-------|-----|-----|-------|
| Capacity (veh/h)      | 330   | 1502 | -   | -   | 1062  | -   | -   | 113   |
| HCM Lane V/C Ratio    | 0.96  | -    | -   | -   | 0.306 | -   | -   | 0.037 |
| HCM Control Delay (s) | 76.1  | 0    | -   | -   | 9.9   | 0   | -   | 38.1  |
| HCM Lane LOS          | F     | A    | -   | -   | A     | A   | -   | E     |
| HCM 95th %tile Q(veh) | 10.1  | 0    | -   | -   | 1.3   | -   | -   | 0.1   |

| Lane Group                | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR  | SBL   | SBT   | SBR   |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| Lane Configurations       |       |       |       |       |       |       |       |       |      |       |       |       |
| Traffic Volume (vph)      | 212   | 583   | 106   | 85    | 672   | 102   | 171   | 171   | 105  | 177   | 188   | 187   |
| Future Volume (vph)       | 212   | 583   | 106   | 85    | 672   | 102   | 171   | 171   | 105  | 177   | 188   | 187   |
| Ideal Flow (vphpl)        | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900 | 1900  | 1900  | 1900  |
| Lane Width (ft)           | 11    | 11    | 11    | 12    | 12    | 12    | 15    | 12    | 12   | 13    | 13    | 13    |
| Grade (%)                 |       | 0%    |       |       | 0%    |       |       | -3%   |      |       | -4%   |       |
| Storage Length (ft)       | 75    |       | 310   | 180   |       | 560   | 150   |       | 0    | 145   |       | 0     |
| Storage Lanes             | 1     |       | 1     | 1     |       | 1     | 1     |       | 0    | 1     |       | 0     |
| Taper Length (ft)         | 115   |       |       | 105   |       |       | 65    |       |      | 40    |       |       |
| Lane Util. Factor         | 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 Factor           |       |       |       |       |       |       |       | 0.99  |      | 1.00  |       |       |
| Fr <sub>t</sub>           |       |       | 0.850 |       |       | 0.850 |       | 0.943 |      |       |       | 0.925 |
| Fl <sub>t</sub> Protected | 0.950 |       |       | 0.950 |       |       | 0.950 |       |      | 0.950 |       |       |
| Satd. Flow (prot)         | 1646  | 1766  | 1516  | 1752  | 1810  | 1568  | 1919  | 1724  | 0    | 1847  | 1756  | 0     |
| Fl <sub>t</sub> Permitted | 0.103 |       |       | 0.178 |       |       | 0.253 |       |      | 0.252 |       |       |
| Satd. Flow (perm)         | 178   | 1766  | 1516  | 328   | 1810  | 1568  | 511   | 1724  | 0    | 489   | 1756  | 0     |
| Right Turn on Red         |       |       | Yes   |       |       | Yes   |       |       | Yes  |       |       | Yes   |
| Satd. Flow (RTOR)         |       |       | 165   |       |       | 165   |       | 26    |      |       | 42    |       |
| Link Speed (mph)          |       | 30    |       |       | 30    |       |       | 30    |      |       | 30    |       |
| Link Distance (ft)        |       | 581   |       |       | 1449  |       |       | 423   |      |       | 450   |       |
| Travel Time (s)           |       | 13.2  |       |       | 32.9  |       |       | 9.6   |      |       | 10.2  |       |
| Confl. Peds. (#/hr)       |       |       |       |       |       |       |       |       | 1    | 1     |       |       |
| Peak Hour Factor          | 0.97  | 0.97  | 0.97  | 0.97  | 0.97  | 0.97  | 0.97  | 0.97  | 0.97 | 0.97  | 0.97  | 0.97  |
| Heavy Vehicles (%)        | 6%    | 4%    | 3%    | 3%    | 5%    | 3%    | 5%    | 5%    | 4%   | 3%    | 6%    | 5%    |
| Shared Lane Traffic (%)   |       |       |       |       |       |       |       |       |      |       |       |       |
| Lane Group Flow (vph)     | 219   | 601   | 109   | 88    | 693   | 105   | 176   | 284   | 0    | 182   | 387   | 0     |
| Turn Type                 | pm+pt | NA    | pm+ov | pm+pt | NA    | pm+ov | pm+pt | NA    |      | pm+pt | NA    |       |
| Protected Phases          | 5     | 2     | 3     | 1     | 6     | 7     | 3     | 8     |      | 7     | 4     |       |
| Permitted Phases          | 2     | 9     | 2     | 6     | 9     | 6     | 8     |       |      | 4     |       |       |
| Detector Phase            | 5     | 2     | 3     | 1     | 6     | 7     | 3     | 8     |      | 7     | 4     |       |
| Switch Phase              |       |       |       |       |       |       |       |       |      |       |       |       |
| Minimum Initial (s)       | 3.0   | 10.0  | 3.0   | 3.0   | 10.0  | 3.0   | 3.0   | 5.0   |      | 3.0   | 5.0   |       |
| Minimum Split (s)         | 9.0   | 16.0  | 9.0   | 9.0   | 16.0  | 9.0   | 9.0   | 11.0  |      | 9.0   | 11.0  |       |
| Total Split (s)           | 15.0  | 40.0  | 15.0  | 15.0  | 40.0  | 15.0  | 15.0  | 20.0  |      | 15.0  | 20.0  |       |
| Total Split (%)           | 15.2% | 40.4% | 15.2% | 15.2% | 40.4% | 15.2% | 15.2% | 20.2% |      | 15.2% | 20.2% |       |
| Maximum Green (s)         | 9.0   | 34.0  | 9.0   | 9.0   | 34.0  | 9.0   | 9.0   | 14.0  |      | 9.0   | 14.0  |       |
| 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   | Lead  | Lead  | Lag   | Lead  | Lead  | Lag   |      | Lead  | Lag   |       |
| Lead-Lag Optimize?        | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |      | Yes   | Yes   |       |
| Vehicle Extension (s)     | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |      | 2.0   | 2.0   |       |
| Recall Mode               | None  | Min   | None  | None  | Min   | None  | None  | None  |      | None  | None  |       |
| Walk Time (s)             |       | 7.0   |       |       | 7.0   |       |       | 7.0   |      |       | 7.0   |       |
| Flash Dont Walk (s)       |       | 14.0  |       |       | 18.0  |       |       | 17.0  |      |       | 16.0  |       |
| Pedestrian Calls (#/hr)   |       | 0     |       |       | 0     |       |       | 1     |      |       | 1     |       |
| Act Effct Green (s)       | 45.9  | 39.2  | 53.5  | 41.1  | 34.7  | 49.1  | 24.5  | 15.8  |      | 24.7  | 15.9  |       |
| Actuated g/C Ratio        | 0.49  | 0.42  | 0.57  | 0.44  | 0.37  | 0.52  | 0.26  | 0.17  |      | 0.26  | 0.17  |       |

|                           |      |
|---------------------------|------|
| Lane Group                | Ø9   |
| Lane Configurations       |      |
| Traffic Volume (vph)      |      |
| Future Volume (vph)       |      |
| Ideal Flow (vphpl)        |      |
| Lane Width (ft)           |      |
| Grade (%)                 |      |
| Storage Length (ft)       |      |
| Storage Lanes             |      |
| Taper Length (ft)         |      |
| Lane Util. Factor         |      |
| Ped Bike Factor           |      |
| Fr <sub>t</sub>           |      |
| Fl <sub>t</sub> Protected |      |
| Satd. Flow (prot)         |      |
| Fl <sub>t</sub> Permitted |      |
| Satd. Flow (perm)         |      |
| Right Turn on Red         |      |
| Satd. Flow (RTOR)         |      |
| Link Speed (mph)          |      |
| Link Distance (ft)        |      |
| Travel Time (s)           |      |
| Confl. Peds. (#/hr)       |      |
| Peak Hour Factor          |      |
| Heavy Vehicles (%)        |      |
| Shared Lane Traffic (%)   |      |
| Lane Group Flow (vph)     |      |
| Turn Type                 |      |
| Protected Phases          | 9    |
| Permitted Phases          |      |
| Detector Phase            |      |
| Switch Phase              |      |
| Minimum Initial (s)       | 3.0  |
| Minimum Split (s)         | 9.0  |
| Total Split (s)           | 9.0  |
| Total Split (%)           | 9%   |
| Maximum Green (s)         | 3.0  |
| Yellow Time (s)           | 4.0  |
| All-Red Time (s)          | 2.0  |
| Lost Time Adjust (s)      |      |
| Total Lost Time (s)       |      |
| Lead/Lag                  |      |
| Lead-Lag Optimize?        |      |
| Vehicle Extension (s)     | 2.0  |
| Recall Mode               | None |
| Walk Time (s)             |      |
| Flash Dont Walk (s)       |      |
| Pedestrian Calls (#/hr)   |      |
| Act Effct Green (s)       |      |
| Actuated g/C Ratio        |      |

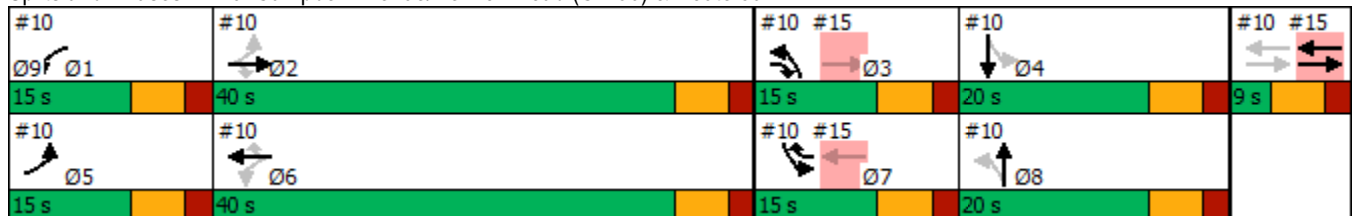


| Lane Group              | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR | SBL  | SBT   | SBR |
|-------------------------|------|------|------|------|------|------|------|------|-----|------|-------|-----|
| v/c Ratio               | 0.96 | 0.81 | 0.12 | 0.35 | 1.03 | 0.12 | 0.66 | 0.91 |     | 0.71 | 1.16  |     |
| Control Delay           | 74.8 | 36.5 | 0.9  | 17.2 | 74.1 | 0.7  | 37.6 | 68.2 |     | 41.1 | 134.3 |     |
| Queue Delay             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     | 0.0  | 0.0   |     |
| Total Delay             | 74.8 | 36.5 | 0.9  | 17.2 | 74.1 | 0.7  | 37.6 | 68.2 |     | 41.1 | 134.3 |     |
| LOS                     | E    | D    | A    | B    | E    | A    | D    | E    |     | D    | F     |     |
| Approach Delay          |      | 41.3 |      |      | 59.7 |      |      | 56.5 |     |      | 104.5 |     |
| Approach LOS            |      | D    |      |      | E    |      |      | E    |     |      | F     |     |
| Queue Length 50th (ft)  | 80   | 302  | 0    | 23   | ~399 | 0    | 74   | 149  |     | 77   | ~258  |     |
| Queue Length 95th (ft)  | #293 | #599 | 8    | 66   | #789 | 7    | #140 | 265  |     | #161 | #425  |     |
| Internal Link Dist (ft) |      | 501  |      |      | 1369 |      |      | 343  |     |      | 370   |     |
| Turn Bay Length (ft)    | 75   |      | 310  | 180  |      | 560  | 150  |      |     | 145  |       |     |
| Base Capacity (vph)     | 229  | 740  | 941  | 289  | 671  | 903  | 271  | 312  |     | 261  | 333   |     |
| 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 | 0.81 | 0.12 | 0.30 | 1.03 | 0.12 | 0.65 | 0.91 |     | 0.70 | 1.16  |     |

Intersection Summary

Area Type: Other  
 Cycle Length: 99  
 Actuated Cycle Length: 93.6  
 Natural Cycle: 110  
 Control Type: Actuated-Uncoordinated  
 Maximum v/c Ratio: 1.16  
 Intersection Signal Delay: 62.2  
 Intersection LOS: E  
 Intersection Capacity Utilization 97.9%  
 ICU Level of Service F  
 Analysis Period (min) 15  
 ~ 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.

Splits and Phases: 10: Campbell Avenue/Hemion Road (CR 93) & Route 59



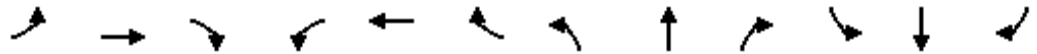
|                         |    |
|-------------------------|----|
| Lane Group              | Ø9 |
| v/c Ratio               |    |
| Control Delay           |    |
| Queue Delay             |    |
| Total Delay             |    |
| LOS                     |    |
| Approach Delay          |    |
| Approach LOS            |    |
| Queue Length 50th (ft)  |    |
| Queue Length 95th (ft)  |    |
| Internal Link Dist (ft) |    |
| Turn Bay Length (ft)    |    |
| Base Capacity (vph)     |    |
| Starvation Cap Reductn  |    |
| Spillback Cap Reductn   |    |
| Storage Cap Reductn     |    |
| Reduced v/c Ratio       |    |
| Intersection Summary    |    |



HCM 6th Edition methodology does not support clustered intersections.

| Lane Group                | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR  | SBL   | SBT   | SBR   |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| Lane Configurations       |       |       |       |       |       |       |       |       |      |       |       |       |
| Traffic Volume (vph)      | 476   | 414   | 70    | 133   | 362   | 432   | 58    | 448   | 154  | 417   | 507   | 587   |
| Future Volume (vph)       | 476   | 414   | 70    | 133   | 362   | 432   | 58    | 448   | 154  | 417   | 507   | 587   |
| Ideal Flow (vphpl)        | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900 | 1900  | 1900  | 1900  |
| Lane Width (ft)           | 13    | 12    | 11    | 13    | 12    | 9     | 11    | 11    | 11   | 12    | 10    | 10    |
| Grade (%)                 |       | 4%    |       |       | -2%   |       |       | -5%   |      |       | 0%    |       |
| Storage Length (ft)       | 330   |       | 145   | 175   |       | 170   | 140   |       | 140  | 100   |       | 0     |
| Storage Lanes             | 1     |       | 1     | 1     |       | 1     | 1     |       | 1    | 1     |       | 1     |
| Taper Length (ft)         | 65    |       |       | 130   |       |       | 200   |       |      | 30    |       |       |
| Lane Util. Factor         | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 0.95  | 0.95 | 1.00  | 1.00  | 1.00  |
| Ped Bike Factor           |       |       | 0.98  | 1.00  |       |       |       | 0.99  |      | 1.00  |       |       |
| Fr <sub>t</sub>           |       |       | 0.850 |       |       | 0.850 |       | 0.962 |      |       |       | 0.850 |
| Fl <sub>t</sub> Protected | 0.950 |       |       | 0.950 |       |       | 0.950 |       |      | 0.950 |       |       |
| Satd. Flow (prot)         | 1758  | 1808  | 1457  | 1829  | 1828  | 1398  | 1626  | 3279  | 0    | 1703  | 1739  | 1463  |
| Fl <sub>t</sub> Permitted | 0.108 |       |       | 0.364 |       |       | 0.100 |       |      | 0.211 |       |       |
| Satd. Flow (perm)         | 200   | 1808  | 1424  | 700   | 1828  | 1398  | 171   | 3279  | 0    | 378   | 1739  | 1463  |
| Right Turn on Red         |       |       | Yes   |       |       | No    |       |       | Yes  |       |       | Yes   |
| Satd. Flow (RTOR)         |       |       | 98    |       |       |       |       | 23    |      |       |       | 258   |
| Link Speed (mph)          |       | 30    |       |       | 30    |       |       | 30    |      |       | 30    |       |
| Link Distance (ft)        |       | 1140  |       |       | 915   |       |       | 417   |      |       | 588   |       |
| Travel Time (s)           |       | 25.9  |       |       | 20.8  |       |       | 9.5   |      |       | 13.4  |       |
| Confl. Peds. (#/hr)       |       |       | 1     | 1     |       |       |       |       | 2    | 2     |       |       |
| Peak Hour Factor          | 0.97  | 0.97  | 0.97  | 0.97  | 0.97  | 0.97  | 0.97  | 0.97  | 0.97 | 0.97  | 0.97  | 0.97  |
| Heavy Vehicles (%)        | 4%    | 3%    | 5%    | 3%    | 5%    | 5%    | 10%   | 4%    | 5%   | 6%    | 2%    | 3%    |
| Shared Lane Traffic (%)   |       |       |       |       |       |       |       |       |      |       |       |       |
| Lane Group Flow (vph)     | 491   | 427   | 72    | 137   | 373   | 445   | 60    | 621   | 0    | 430   | 523   | 605   |
| Turn Type                 | pm+pt | NA    | pm+ov | pm+pt | NA    | pm+ov | pm+pt | NA    |      | pm+pt | NA    | pm+ov |
| Protected Phases          | 5     | 2     | 3     | 1     | 6     | 7     | 3     | 8     |      | 7     | 4     | 5     |
| Permitted Phases          | 2     | 10    | 2     | 6     | 10    | 6     | 8     |       |      | 4     |       | 4     |
| Detector Phase            | 5     | 2     | 3     | 1     | 6     | 7     | 3     | 8     |      | 7     | 4     | 5     |
| Switch Phase              |       |       |       |       |       |       |       |       |      |       |       |       |
| Minimum Initial (s)       | 5.0   | 10.0  | 3.0   | 3.0   | 10.0  | 3.0   | 3.0   | 10.0  |      | 3.0   | 10.0  | 5.0   |
| Minimum Split (s)         | 10.0  | 15.0  | 8.0   | 8.0   | 15.0  | 8.0   | 8.0   | 15.0  |      | 8.0   | 15.0  | 10.0  |
| Total Split (s)           | 35.0  | 65.0  | 8.0   | 25.0  | 55.0  | 35.0  | 8.0   | 45.0  |      | 35.0  | 72.0  | 35.0  |
| Total Split (%)           | 18.4% | 34.2% | 4.2%  | 13.2% | 28.9% | 18.4% | 4.2%  | 23.7% |      | 18.4% | 37.9% | 18.4% |
| Maximum Green (s)         | 30.0  | 60.0  | 3.0   | 20.0  | 50.0  | 30.0  | 3.0   | 40.0  |      | 30.0  | 67.0  | 30.0  |
| 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)          | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |      | 1.0   | 1.0   | 1.0   |
| 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)       | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |      | 5.0   | 5.0   | 5.0   |
| Lead/Lag                  | Lead  | Lag   | Lag   | Lead  | Lag   | Lag   | Lag   | Lead  |      | Lag   | Lead  | Lead  |
| Lead-Lag Optimize?        | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |      | Yes   | Yes   | Yes   |
| Vehicle Extension (s)     | 3.0   | 3.0   | 1.0   | 1.0   | 3.0   | 3.0   | 1.0   | 2.0   |      | 3.0   | 3.0   | 3.0   |
| Recall Mode               | None  | None  | Max   | None  | None  | Max   | Max   | Max   |      | Max   | None  | None  |
| Walk Time (s)             |       | 7.0   |       |       | 7.0   |       |       | 7.0   |      |       | 7.0   |       |
| Flash Dont Walk (s)       |       | 24.0  |       |       | 24.0  |       |       | 24.0  |      |       | 24.0  |       |
| Pedestrian Calls (#/hr)   |       | 1     |       |       | 1     |       |       | 2     |      |       | 2     |       |
| Act Effct Green (s)       | 67.3  | 56.5  | 73.4  | 43.4  | 37.7  | 62.3  | 62.4  | 40.2  |      | 71.4  | 47.9  | 78.0  |
| Actuated g/C Ratio        | 0.42  | 0.35  | 0.46  | 0.27  | 0.24  | 0.39  | 0.39  | 0.25  |      | 0.45  | 0.30  | 0.49  |

|                           |      |
|---------------------------|------|
| Lane Group                | Ø10  |
| Lane Configurations       |      |
| Traffic Volume (vph)      |      |
| Future Volume (vph)       |      |
| Ideal Flow (vphpl)        |      |
| Lane Width (ft)           |      |
| Grade (%)                 |      |
| Storage Length (ft)       |      |
| Storage Lanes             |      |
| Taper Length (ft)         |      |
| Lane Util. Factor         |      |
| Ped Bike Factor           |      |
| Fr <sub>t</sub>           |      |
| Fl <sub>t</sub> Protected |      |
| Satd. Flow (prot)         |      |
| Fl <sub>t</sub> Permitted |      |
| Satd. Flow (perm)         |      |
| Right Turn on Red         |      |
| Satd. Flow (RTOR)         |      |
| Link Speed (mph)          |      |
| Link Distance (ft)        |      |
| Travel Time (s)           |      |
| Confl. Peds. (#/hr)       |      |
| Peak Hour Factor          |      |
| Heavy Vehicles (%)        |      |
| Shared Lane Traffic (%)   |      |
| Lane Group Flow (vph)     |      |
| Turn Type                 |      |
| Protected Phases          | 10   |
| Permitted Phases          |      |
| Detector Phase            |      |
| Switch Phase              |      |
| Minimum Initial (s)       | 15.0 |
| Minimum Split (s)         | 20.0 |
| Total Split (s)           | 20.0 |
| Total Split (%)           | 11%  |
| Maximum Green (s)         | 15.0 |
| Yellow Time (s)           | 4.0  |
| All-Red Time (s)          | 1.0  |
| Lost Time Adjust (s)      |      |
| Total Lost Time (s)       |      |
| Lead/Lag                  |      |
| Lead-Lag Optimize?        |      |
| Vehicle Extension (s)     | 3.0  |
| Recall Mode               | None |
| Walk Time (s)             |      |
| Flash Dont Walk (s)       |      |
| Pedestrian Calls (#/hr)   |      |
| Act Effct Green (s)       |      |
| Actuated g/C Ratio        |      |



| Lane Group              | EBL   | EBT   | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR | SBL   | SBT  | SBR  |
|-------------------------|-------|-------|------|------|------|------|------|------|-----|-------|------|------|
| v/c Ratio               | 1.30  | 0.67  | 0.10 | 0.51 | 0.87 | 0.82 | 0.22 | 0.74 |     | 1.03  | 1.01 | 0.72 |
| Control Delay           | 193.7 | 46.6  | 1.8  | 39.5 | 72.3 | 37.4 | 46.9 | 60.5 |     | 105.4 | 96.1 | 13.7 |
| Queue Delay             | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     | 0.0   | 0.3  | 0.0  |
| Total Delay             | 193.7 | 46.6  | 1.8  | 39.5 | 72.3 | 37.4 | 46.9 | 60.5 |     | 105.4 | 96.4 | 13.7 |
| LOS                     | F     | D     | A    | D    | E    | D    | D    | E    |     | F     | F    | B    |
| Approach Delay          |       | 116.3 |      |      | 51.4 |      |      | 59.3 |     |       | 66.8 |      |
| Approach LOS            |       | F     |      |      | D    |      |      | E    |     |       | E    |      |
| Queue Length 50th (ft)  | ~575  | 367   | 0    | 81   | 371  | 200  | 33   | 298  |     | 331   | ~599 | 151  |
| Queue Length 95th (ft)  | #947  | 404   | 12   | 156  | 342  | #376 | #116 | 428  |     | #682  | 698  | 224  |
| Internal Link Dist (ft) |       | 1060  |      |      | 835  |      |      | 337  |     |       | 508  |      |
| Turn Bay Length (ft)    | 330   |       | 145  | 175  |      | 170  | 140  |      |     | 100   |      |      |
| Base Capacity (vph)     | 377   | 743   | 710  | 370  | 637  | 543  | 270  | 840  |     | 417   | 731  | 845  |
| Starvation Cap Reductn  | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    |     | 0     | 22   | 0    |
| Spillback Cap Reductn   | 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    |
| Reduced v/c Ratio       | 1.30  | 0.57  | 0.10 | 0.37 | 0.59 | 0.82 | 0.22 | 0.74 |     | 1.03  | 0.74 | 0.72 |

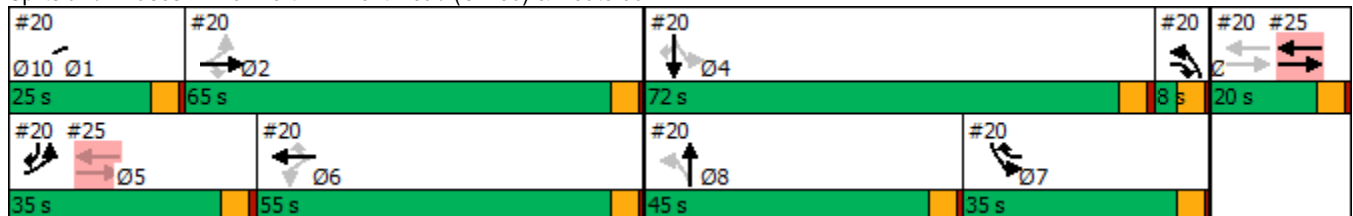
Intersection Summary

Area Type: Other  
 Cycle Length: 190  
 Actuated Cycle Length: 160.1  
 Natural Cycle: 140  
 Control Type: Semi Act-Uncoord  
 Maximum v/c Ratio: 1.30  
 Intersection Signal Delay: 73.8  
 Intersection Capacity Utilization 111.0%  
 Analysis Period (min) 15  
 Intersection LOS: E  
 ICU Level of Service H

~ Volume exceeds capacity, queue is theoretically infinite.  
 Queue shown is maximum after two cycles.

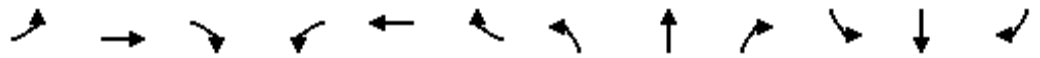
# 95th percentile volume exceeds capacity, queue may be longer.  
 Queue shown is maximum after two cycles.

Splits and Phases: 20: North Airmont Road (CR 89) & Route 59

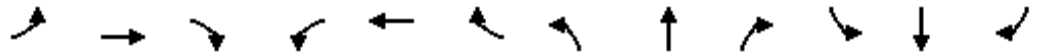


|                         |     |
|-------------------------|-----|
| Lane Group              | Ø10 |
| v/c Ratio               |     |
| Control Delay           |     |
| Queue Delay             |     |
| Total Delay             |     |
| LOS                     |     |
| Approach Delay          |     |
| Approach LOS            |     |
| Queue Length 50th (ft)  |     |
| Queue Length 95th (ft)  |     |
| Internal Link Dist (ft) |     |
| Turn Bay Length (ft)    |     |
| Base Capacity (vph)     |     |
| Starvation Cap Reductn  |     |
| Spillback Cap Reductn   |     |
| Storage Cap Reductn     |     |
| Reduced v/c Ratio       |     |
| Intersection Summary    |     |

HCM 6th Edition methodology does not support clustered intersections.



| Lane Group                | EBL   | EBT   | EBR   | WBL  | WBT  | WBR  | NBL  | NBT   | NBR   | SBL   | SBT   | SBR  |
|---------------------------|-------|-------|-------|------|------|------|------|-------|-------|-------|-------|------|
| Lane Configurations       |       | ↕     | ↗     |      |      |      |      | ↕↕    | ↗     | ↖↖    | ↕↕    |      |
| Traffic Volume (vph)      | 278   | 3     | 317   | 0    | 0    | 0    | 0    | 723   | 723   | 469   | 1213  | 0    |
| Future Volume (vph)       | 278   | 3     | 317   | 0    | 0    | 0    | 0    | 723   | 723   | 469   | 1213  | 0    |
| Ideal Flow (vphpl)        | 1900  | 1900  | 1900  | 1900 | 1900 | 1900 | 1900 | 1900  | 1900  | 1900  | 1900  | 1900 |
| Lane Width (ft)           | 12    | 12    | 12    | 12   | 12   | 12   | 11   | 11    | 14    | 12    | 12    | 12   |
| Grade (%)                 |       | 5%    |       |      | 0%   |      |      | 3%    |       |       |       | -5%  |
| Storage Length (ft)       | 120   |       | 0     | 0    |      | 0    | 0    |       | 80    | 150   |       | 0    |
| Storage Lanes             | 1     |       | 1     | 0    |      | 0    | 0    |       | 1     | 2     |       | 0    |
| Taper Length (ft)         | 125   |       |       | 25   |      |      | 25   |       |       | 80    |       |      |
| Lane Util. Factor         | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 0.95  | 1.00  | 0.97  | 0.95  | 1.00 |
| Ped Bike Factor           |       |       |       |      |      |      |      |       | 0.99  | 1.00  |       |      |
| Fr <sub>t</sub>           |       |       | 0.850 |      |      |      |      |       | 0.850 |       |       |      |
| Fl <sub>t</sub> Protected |       | 0.953 |       |      |      |      |      |       |       | 0.950 |       |      |
| Satd. Flow (prot)         | 0     | 1551  | 1472  | 0    | 0    | 0    | 0    | 3183  | 1632  | 3485  | 3558  | 0    |
| Fl <sub>t</sub> Permitted |       | 0.953 |       |      |      |      |      |       |       | 0.950 |       |      |
| Satd. Flow (perm)         | 0     | 1551  | 1472  | 0    | 0    | 0    | 0    | 3183  | 1610  | 3482  | 3558  | 0    |
| Right Turn on Red         |       |       | Yes   |      |      | Yes  |      |       | Yes   |       |       | Yes  |
| Satd. Flow (RTOR)         |       |       | 102   |      |      |      |      |       | 479   |       |       |      |
| Link Speed (mph)          |       | 30    |       |      | 30   |      |      | 30    |       |       | 30    |      |
| Link Distance (ft)        |       | 946   |       |      | 400  |      |      | 480   |       |       | 504   |      |
| Travel Time (s)           |       | 21.5  |       |      | 9.1  |      |      | 10.9  |       |       | 11.5  |      |
| Confl. Peds. (#/hr)       |       |       |       |      |      |      |      |       | 1     | 1     |       |      |
| Peak Hour Factor          | 0.99  | 0.99  | 0.99  | 0.99 | 0.99 | 0.99 | 0.99 | 0.99  | 0.99  | 0.99  | 0.99  | 0.99 |
| Heavy Vehicles (%)        | 14%   | 0%    | 7%    | 0%   | 0%   | 0%   | 0%   | 8%    | 4%    | 3%    | 4%    | 0%   |
| Shared Lane Traffic (%)   |       |       |       |      |      |      |      |       |       |       |       |      |
| Lane Group Flow (vph)     | 0     | 284   | 320   | 0    | 0    | 0    | 0    | 730   | 730   | 474   | 1225  | 0    |
| Turn Type                 | Perm  | NA    | Perm  |      |      |      |      | NA    | Perm  | Prot  | NA    |      |
| Protected Phases          |       | 4     |       |      |      |      |      | 2     |       | 1     | 6     |      |
| Permitted Phases          | 4     |       | 4     |      |      |      |      |       | 2     |       |       |      |
| Detector Phase            | 4     | 4     | 4     |      |      |      |      | 2     | 2     | 1     | 6     |      |
| Switch Phase              |       |       |       |      |      |      |      |       |       |       |       |      |
| Minimum Initial (s)       | 10.0  | 10.0  | 10.0  |      |      |      |      | 10.0  | 10.0  | 10.0  | 10.0  |      |
| Minimum Split (s)         | 15.0  | 15.0  | 15.0  |      |      |      |      | 15.0  | 15.0  | 15.0  | 15.0  |      |
| Total Split (s)           | 34.0  | 34.0  | 34.0  |      |      |      |      | 20.0  | 20.0  | 21.0  | 41.0  |      |
| Total Split (%)           | 45.3% | 45.3% | 45.3% |      |      |      |      | 26.7% | 26.7% | 28.0% | 54.7% |      |
| Maximum Green (s)         | 29.0  | 29.0  | 29.0  |      |      |      |      | 15.0  | 15.0  | 16.0  | 36.0  |      |
| Yellow Time (s)           | 3.0   | 3.0   | 3.0   |      |      |      |      | 3.0   | 3.0   | 3.0   | 3.0   |      |
| All-Red Time (s)          | 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   |      |
| Total Lost Time (s)       |       | 5.0   | 5.0   |      |      |      |      | 5.0   | 5.0   | 5.0   | 5.0   |      |
| Lead/Lag                  |       |       |       |      |      |      |      | Lag   | Lag   | Lead  |       |      |
| Lead-Lag Optimize?        |       |       |       |      |      |      |      | Yes   | Yes   | Yes   |       |      |
| Vehicle Extension (s)     | 2.0   | 2.0   | 2.0   |      |      |      |      | 2.0   | 2.0   | 2.0   | 2.0   |      |
| Recall Mode               | None  | None  | None  |      |      |      |      | C-Max | C-Max | None  | C-Max |      |
| Act Effct Green (s)       |       | 18.5  | 18.5  |      |      |      |      | 27.4  | 27.4  | 14.0  | 46.5  |      |
| Actuated g/C Ratio        |       | 0.25  | 0.25  |      |      |      |      | 0.37  | 0.37  | 0.19  | 0.62  |      |
| v/c Ratio                 |       | 0.74  | 0.73  |      |      |      |      | 0.63  | 0.82  | 0.73  | 0.56  |      |
| Control Delay             |       | 37.3  | 26.5  |      |      |      |      | 18.6  | 14.3  | 30.3  | 3.7   |      |
| Queue Delay               |       | 0.0   | 0.0   |      |      |      |      | 0.0   | 0.0   | 0.0   | 0.1   |      |

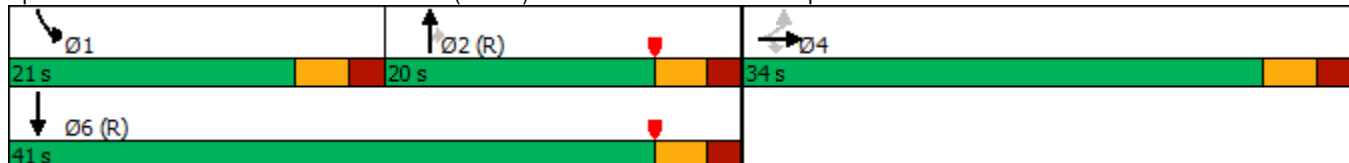


| Lane Group              | EBL | EBT  | EBR  | WBL | WBT | WBR | NBL | NBT  | NBR  | SBL  | SBT  | SBR |
|-------------------------|-----|------|------|-----|-----|-----|-----|------|------|------|------|-----|
| Total Delay             |     | 37.3 | 26.5 |     |     |     |     | 18.6 | 14.3 | 30.3 | 3.9  |     |
| LOS                     |     | D    | C    |     |     |     |     | B    | B    | C    | A    |     |
| Approach Delay          |     | 31.6 |      |     |     |     |     | 16.4 |      |      | 11.2 |     |
| Approach LOS            |     | C    |      |     |     |     |     | B    |      |      | B    |     |
| Queue Length 50th (ft)  |     | 122  | 92   |     |     |     |     | 47   | 9    | 81   | 0    |     |
| Queue Length 95th (ft)  |     | 176  | 156  |     |     |     |     | #279 | #345 | m138 | m210 |     |
| Internal Link Dist (ft) |     | 866  |      |     | 320 |     |     | 400  |      |      |      | 424 |
| Turn Bay Length (ft)    |     |      |      |     |     |     |     |      | 80   | 150  |      |     |
| Base Capacity (vph)     |     | 599  | 631  |     |     |     |     | 1163 | 892  | 743  | 2203 |     |
| Starvation Cap Reductn  |     | 0    | 0    |     |     |     |     | 0    | 0    | 0    | 224  |     |
| Spillback Cap Reductn   |     | 0    | 0    |     |     |     |     | 0    | 0    | 0    | 0    |     |
| Storage Cap Reductn     |     | 0    | 0    |     |     |     |     | 0    | 0    | 0    | 0    |     |
| Reduced v/c Ratio       |     | 0.47 | 0.51 |     |     |     |     | 0.63 | 0.82 | 0.64 | 0.62 |     |




















Intersection Summary

Area Type: Other  
 Cycle Length: 75  
 Actuated Cycle Length: 75  
 Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow, Master Intersection  
 Natural Cycle: 55  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.82  
 Intersection Signal Delay: 16.5 Intersection LOS: B  
 Intersection Capacity Utilization 86.3% ICU Level of Service E  
 Analysis Period (min) 15  
 # 95th percentile volume exceeds capacity, queue may be longer.  
 Queue shown is maximum after two cycles.  
 m Volume for 95th percentile queue is metered by upstream signal.

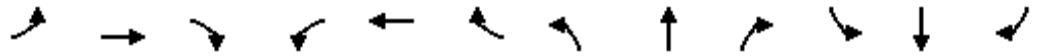
Splits and Phases: 30: North Airmont Road (CR 89) & I-87 SB/I-287 EB Off-Ramp





|                              |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Movement                     | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL  | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations          |   |  |  |   |   |   |  |  |  |  |  |  |
| Traffic Volume (veh/h)       | 278   | 3   | 317   | 0   | 0   | 0   | 0  | 723   | 723   | 469   | 1213  | 0   |
| Future Volume (veh/h)        | 278   | 3   | 317   | 0   | 0   | 0   | 0  | 723   | 723   | 469   | 1213  | 0   |
| Initial Q (Qb), veh          | 0   | 0   | 0   |   |   |   | 0  | 0   | 0   | 0   | 0   | 0   |
| Ped-Bike Adj(A_pbT)          | 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  |
| Work Zone On Approach        |   | No  |   |   |   |   |  | No  |   |   | No  |   |
| Adj Sat Flow, veh/h/ln       | 1545  | 1753  | 1649  |   |   |   | 0  | 1728  | 1859  | 2052  | 2037  | 0   |
| Adj Flow Rate, veh/h         | 281   | 3   | 320   |   |   |   | 0  | 730   | 730   | 474   | 1225  | 0   |
| Peak Hour Factor             | 0.99  | 0.99  | 0.99  |   |   |   | 0.99   | 0.99  | 0.99  | 0.99  | 0.99  | 0.99  |
| Percent Heavy Veh, %         | 14  | 0   | 7   |   |   |   | 0  | 8   | 4   | 3   | 4   | 0   |
| Cap, veh/h                   | 432   | 5   | 365   |   |   |   | 0  | 1258  | 603   | 590   | 2343  | 0   |
| Arrive On Green              | 0.26  | 0.26  | 0.26  |   |   |   | 0.00   | 0.38  | 0.38  | 0.16  | 0.61  | 0.00  |
| Sat Flow, veh/h              | 1652  | 18  | 1397  |   |   |   | 0  | 3370  | 1574  | 3791  | 3971  | 0   |
| Grp Volume(v), veh/h         | 284   | 0   | 320   |   |   |   | 0  | 730   | 730   | 474   | 1225  | 0   |
| Grp Sat Flow(s),veh/h/ln     | 1670  | 0   | 1397  |   |   |   | 0  | 1642  | 1574  | 1895  | 1935  | 0   |
| Q Serve(g_s), s              | 11.4  | 0.0   | 16.5  |   |   |   | 0.0  | 13.2  | 28.7  | 9.0   | 13.7  | 0.0   |
| Cycle Q Clear(g_c), s        | 11.4  | 0.0   | 16.5  |   |   |   | 0.0  | 13.2  | 28.7  | 9.0   | 13.7  | 0.0   |
| Prop In Lane                 | 0.99  |   | 1.00  |   |   |   | 0.00   |   | 1.00  | 1.00  |   | 0.00  |
| Lane Grp Cap(c), veh/h       | 436   | 0   | 365   |   |   |   | 0  | 1258  | 603   | 590   | 2343  | 0   |
| V/C Ratio(X)                 | 0.65  | 0.00  | 0.88  |   |   |   | 0.00   | 0.58  | 1.21  | 0.80  | 0.52  | 0.00  |
| Avail Cap(c_a), veh/h        | 646   | 0   | 540   |   |   |   | 0  | 1258  | 603   | 809   | 2343  | 0   |
| HCM Platoon Ratio            | 1.00  | 1.00  | 1.00  |   |   |   | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Upstream Filter(I)           | 1.00  | 0.00  | 1.00  |   |   |   | 0.00   | 1.00  | 1.00  | 0.42  | 0.42  | 0.00  |
| Uniform Delay (d), s/veh     | 24.7  | 0.0   | 26.5  |   |   |   | 0.0  | 18.4  | 23.1  | 30.5  | 8.5   | 0.0   |
| Incr Delay (d2), s/veh       | 0.6   | 0.0   | 7.7   |   |   |   | 0.0  | 2.0   | 109.5   | 1.2   | 0.4   | 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   |
| %ile BackOfQ(95%),veh/ln     | 7.8   | 0.0   | 10.0  |   |   |   | 0.0  | 8.7   | 41.5  | 6.2   | 7.2   | 0.0   |
| Unsig. Movement Delay, s/veh |   |   |   |   |   |   |  |   |   |   |   |   |
| LnGrp Delay(d),s/veh         | 25.3  | 0.0   | 34.2  |   |   |   | 0.0  | 20.3  | 132.7   | 31.8  | 8.9   | 0.0   |
| LnGrp LOS                    | C   | A   | C   |   |   |   | A  | C   | F   | C   | A   | A   |
| Approach Vol, veh/h          |   | 604   |   |   |   |   |  | 1460  |   |   | 1699  |   |
| Approach Delay, s/veh        |   | 30.0  |   |   |   |   |  | 76.5  |   |   | 15.3  |   |
| Approach LOS                 |   | C   |   |   |   |   |  | E   |   |   | B   |   |
| Timer - Assigned Phs         | 1   | 2   |   | 4   |   |   |  | 6   |   |   |   |   |
| Phs Duration (G+Y+Rc), s     | 16.7  | 33.7  |   | 24.6  |   |   |  | 50.4  |   |   |   |   |
| Change Period (Y+Rc), s      | 5.0   | 5.0   |   | 5.0   |   |   |  | 5.0   |   |   |   |   |
| Max Green Setting (Gmax), s  | 16.0  | 15.0  |   | 29.0  |   |   |  | 36.0  |   |   |   |   |
| Max Q Clear Time (g_c+I1), s | 11.0  | 0.0   |   | 18.5  |   |   |  | 0.0   |   |   |   |   |
| Green Ext Time (p_c), s      | 0.6   | 0.0   |   | 1.1   |   |   |  | 0.0   |   |   |   |   |
| <b>Intersection Summary</b>  |   |   |   |   |   |   |  |   |   |   |   |   |
| HCM 6th Ctrl Delay           |   |   | 41.4  |   |   |   |  |   |   |   |   |   |
| HCM 6th LOS                  |   |   | D   |   |   |   |  |   |   |   |   |   |

| Lane Group                | EBL  | EBT  | EBR  | WBL   | WBT   | WBR   | NBL   | NBT   | NBR  | SBL  | SBT   | SBR   |
|---------------------------|------|------|------|-------|-------|-------|-------|-------|------|------|-------|-------|
| Lane Configurations       |      |      |      |       |       |       |       |       |      |      |       |       |
| Traffic Volume (vph)      | 0    | 0    | 0    | 812   | 2     | 462   | 391   | 610   | 0    | 0    | 870   | 427   |
| Future Volume (vph)       | 0    | 0    | 0    | 812   | 2     | 462   | 391   | 610   | 0    | 0    | 870   | 427   |
| Ideal Flow (vphpl)        | 1900 | 1900 | 1900 | 1900  | 1900  | 1900  | 1900  | 1900  | 1900 | 1900 | 1900  | 1900  |
| Lane Width (ft)           | 12   | 12   | 12   | 12    | 12    | 12    | 11    | 10    | 10   | 12   | 12    | 12    |
| Grade (%)                 |      | 0%   |      |       | 0%    |       |       | 9%    |      |      | -7%   |       |
| Storage Length (ft)       | 0    |      | 0    | 520   |       | 350   | 105   |       | 0    | 0    |       | 140   |
| Storage Lanes             | 0    |      | 0    | 1     |       | 0     | 1     |       | 0    | 0    |       | 1     |
| Taper Length (ft)         | 145  |      |      | 145   |       |       | 100   |       |      | 25   |       |       |
| Lane Util. Factor         | 1.00 | 1.00 | 1.00 | 0.95  | 0.95  | 1.00  | 1.00  | 0.95  | 1.00 | 1.00 | 0.95  | 1.00  |
| Ped Bike Factor           |      |      |      |       |       |       | 1.00  |       |      |      |       | 0.97  |
| Fr <sub>t</sub>           |      |      |      |       |       | 0.850 |       |       |      |      |       | 0.850 |
| Fl <sub>t</sub> Protected |      |      |      | 0.950 | 0.953 |       | 0.950 |       |      |      |       |       |
| Satd. Flow (prot)         | 0    | 0    | 0    | 1665  | 1670  | 1583  | 1488  | 3064  | 0    | 0    | 3593  | 1548  |
| Fl <sub>t</sub> Permitted |      |      |      | 0.950 | 0.953 |       | 0.152 |       |      |      |       |       |
| Satd. Flow (perm)         | 0    | 0    | 0    | 1665  | 1670  | 1583  | 238   | 3064  | 0    | 0    | 3593  | 1506  |
| Right Turn on Red         |      |      | Yes  |       |       | Yes   |       |       | Yes  |      |       | Yes   |
| Satd. Flow (RTOR)         |      |      |      |       |       | 200   |       |       |      |      |       | 376   |
| Link Speed (mph)          |      | 30   |      |       | 30    |       |       | 30    |      |      |       | 30    |
| Link Distance (ft)        |      | 580  |      |       | 846   |       |       | 504   |      |      |       | 781   |
| Travel Time (s)           |      | 13.2 |      |       | 19.2  |       |       | 11.5  |      |      |       | 17.8  |
| Confl. Peds. (#/hr)       |      |      |      |       |       |       | 3     |       |      |      |       | 3     |
| Peak Hour Factor          | 0.98 | 0.98 | 0.98 | 0.98  | 0.98  | 0.98  | 0.98  | 0.98  | 0.98 | 0.98 | 0.98  | 0.98  |
| Heavy Vehicles (%)        | 0%   | 0%   | 0%   | 3%    | 3%    | 2%    | 12%   | 5%    | 0%   | 0%   | 4%    | 8%    |
| Shared Lane Traffic (%)   |      |      |      | 50%   |       |       |       |       |      |      |       |       |
| Lane Group Flow (vph)     | 0    | 0    | 0    | 414   | 417   | 471   | 399   | 622   | 0    | 0    | 888   | 436   |
| Turn Type                 |      |      |      | Perm  | NA    | Perm  | pm+pt | NA    |      |      | NA    | Perm  |
| Protected Phases          |      |      |      |       | 8     |       | 5     | 2     |      |      |       | 6     |
| Permitted Phases          |      |      |      | 8     |       | 8     | 2     |       |      |      |       | 6     |
| Detector Phase            |      |      |      | 8     | 8     | 8     | 5     | 2     |      |      |       | 6     |
| Switch Phase              |      |      |      |       |       |       |       |       |      |      |       |       |
| Minimum Initial (s)       |      |      |      | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  |      |      | 10.0  | 10.0  |
| Minimum Split (s)         |      |      |      | 15.0  | 15.0  | 15.0  | 15.0  | 15.0  |      |      | 15.0  | 15.0  |
| Total Split (s)           |      |      |      | 34.0  | 34.0  | 34.0  | 20.0  | 41.0  |      |      | 21.0  | 21.0  |
| Total Split (%)           |      |      |      | 45.3% | 45.3% | 45.3% | 26.7% | 54.7% |      |      | 28.0% | 28.0% |
| Maximum Green (s)         |      |      |      | 29.0  | 29.0  | 29.0  | 15.0  | 36.0  |      |      | 16.0  | 16.0  |
| Yellow Time (s)           |      |      |      | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |      |      | 3.0   | 3.0   |
| All-Red Time (s)          |      |      |      | 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)       |      |      |      | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |      |      | 5.0   | 5.0   |
| Lead/Lag                  |      |      |      |       |       |       | Lead  |       |      |      | Lag   | Lag   |
| Lead-Lag Optimize?        |      |      |      |       |       |       | Yes   |       |      |      | Yes   | Yes   |
| Vehicle Extension (s)     |      |      |      | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |      |      | 2.0   | 2.0   |
| Recall Mode               |      |      |      | None  | None  | None  | None  | C-Max |      |      | C-Max | C-Max |
| Act Effct Green (s)       |      |      |      | 23.7  | 23.7  | 23.7  | 41.3  | 41.3  |      |      | 21.3  | 21.3  |
| Actuated g/C Ratio        |      |      |      | 0.32  | 0.32  | 0.32  | 0.55  | 0.55  |      |      | 0.28  | 0.28  |
| v/c Ratio                 |      |      |      | 0.79  | 0.79  | 0.74  | 1.05  | 0.37  |      |      | 0.87  | 0.63  |
| Control Delay             |      |      |      | 34.1  | 34.3  | 19.7  | 72.6  | 3.9   |      |      | 43.9  | 19.5  |
| Queue Delay               |      |      |      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |      |      | 0.0   | 0.0   |

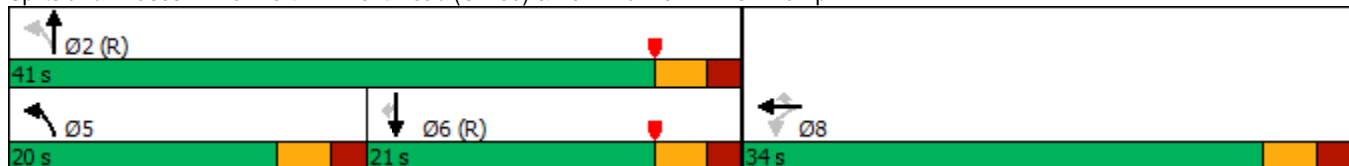


| Lane Group              | EBL | EBT | EBR | WBL  | WBT  | WBR  | NBL  | NBT  | NBR | SBL | SBT  | SBR  |
|-------------------------|-----|-----|-----|------|------|------|------|------|-----|-----|------|------|
| Total Delay             |     |     |     | 34.1 | 34.3 | 19.7 | 72.6 | 3.9  |     |     | 43.9 | 19.5 |
| LOS                     |     |     |     | C    | C    | B    | E    | A    |     |     | D    | B    |
| Approach Delay          |     |     |     |      | 28.9 |      |      | 30.8 |     |     | 35.9 |      |
| Approach LOS            |     |     |     |      | C    |      |      | C    |     |     | D    |      |
| Queue Length 50th (ft)  |     |     |     | 177  | 178  | 107  | ~161 | 33   |     |     | 237  | 102  |
| Queue Length 95th (ft)  |     |     |     | 261  | 263  | 195  | #317 | 16   |     |     | #393 | m169 |
| Internal Link Dist (ft) |     | 500 |     |      | 766  |      |      | 424  |     |     | 701  |      |
| Turn Bay Length (ft)    |     |     |     | 520  |      | 350  | 105  |      |     |     |      | 140  |
| Base Capacity (vph)     |     |     |     | 643  | 645  | 734  | 381  | 1687 |     |     | 1020 | 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       |     |     |     | 0.64 | 0.65 | 0.64 | 1.05 | 0.37 |     |     | 0.87 | 0.63 |

Intersection Summary

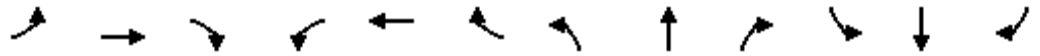
Area Type: Other  
 Cycle Length: 75  
 Actuated Cycle Length: 75  
 Offset: 32 (43%), Referenced to phase 2:NBTL and 6:SBT, Start of Yellow  
 Natural Cycle: 70  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.05  
 Intersection Signal Delay: 32.0  
 Intersection LOS: C  
 Intersection Capacity Utilization 86.3%  
 ICU Level of Service E  
 Analysis Period (min) 15  
 ~ 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.  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 40: North Airmont Road (CR 89) & I-87 NB/I-287 WB Off-Ramp



HCM 6th Edition methodology does not support turning movements with shared & exclusive lanes.

| Lane Group              | EBL   | EBT   | EBR  | WBL   | WBT   | WBR  | NBL   | NBT   | NBR  | SBL   | SBT   | SBR  |
|-------------------------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|
| Lane Configurations     |       |       |      |       |       |      |       |       |      |       |       |      |
| Traffic Volume (vph)    | 66    | 2     | 31   | 59    | 2     | 62   | 40    | 1248  | 68   | 67    | 1421  | 11   |
| Future Volume (vph)     | 66    | 2     | 31   | 59    | 2     | 62   | 40    | 1248  | 68   | 67    | 1421  | 11   |
| Ideal Flow (vphpl)      | 1900  | 1900  | 1900 | 1900  | 1900  | 1900 | 1900  | 1900  | 1900 | 1900  | 1900  | 1900 |
| Lane Width (ft)         | 14    | 14    | 14   | 14    | 14    | 14   | 10    | 11    | 11   | 10    | 11    | 11   |
| Grade (%)               |       | 0%    |      |       | 0%    |      |       | 0%    |      |       |       | -4%  |
| Storage Length (ft)     | 0     |       | 0    | 0     |       | 0    | 130   |       | 0    | 155   |       | 0    |
| Storage Lanes           | 0     |       | 0    | 0     |       | 0    | 1     |       | 0    | 1     |       | 0    |
| Taper Length (ft)       | 25    |       |      | 25    |       |      | 25    |       |      | 25    |       |      |
| Lane Util. Factor       | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00 | 1.00  | 0.95  | 0.95 | 1.00  | 0.95  | 0.95 |
| Frt                     |       | 0.957 |      |       | 0.932 |      |       | 0.992 |      |       | 0.999 |      |
| Flt Protected           |       | 0.968 |      |       | 0.977 |      | 0.950 |       |      | 0.950 |       |      |
| Satd. Flow (prot)       | 0     | 1784  | 0    | 0     | 1845  | 0    | 1589  | 3305  | 0    | 1718  | 3420  | 0    |
| Flt Permitted           |       | 0.703 |      |       | 0.820 |      | 0.098 |       |      | 0.104 |       |      |
| Satd. Flow (perm)       | 0     | 1295  | 0    | 0     | 1549  | 0    | 164   | 3305  | 0    | 188   | 3420  | 0    |
| Right Turn on Red       |       |       | Yes  |       |       | Yes  |       |       | Yes  |       |       | Yes  |
| Satd. Flow (RTOR)       |       | 30    |      |       | 66    |      |       | 9     |      |       | 1     |      |
| Link Speed (mph)        |       | 30    |      |       | 30    |      |       | 30    |      |       | 30    |      |
| Link Distance (ft)      |       | 182   |      |       | 462   |      |       | 185   |      |       | 144   |      |
| Travel Time (s)         |       | 4.1   |      |       | 10.5  |      |       | 4.2   |      |       | 3.3   |      |
| Peak Hour Factor        | 0.92  | 0.92  | 0.92 | 0.92  | 0.92  | 0.92 | 0.92  | 0.92  | 0.92 | 0.92  | 0.92  | 0.92 |
| Heavy Vehicles (%)      | 6%    | 0%    | 4%   | 0%    | 0%    | 0%   | 6%    | 5%    | 0%   | 0%    | 4%    | 0%   |
| Shared Lane Traffic (%) |       |       |      |       |       |      |       |       |      |       |       |      |
| Lane Group Flow (vph)   | 0     | 108   | 0    | 0     | 133   | 0    | 43    | 1431  | 0    | 73    | 1557  | 0    |
| Turn Type               | Perm  | NA    |      | Perm  | NA    |      | pm+pt | NA    |      | pm+pt | NA    |      |
| Protected Phases        |       | 4     |      |       | 8     |      | 5     | 2     |      | 1     | 6     |      |
| Permitted Phases        | 4     |       |      | 8     |       |      | 2     |       |      | 6     |       |      |
| Detector Phase          | 4     | 4     |      | 8     | 8     |      | 5     | 2     |      | 1     | 6     |      |
| Switch Phase            |       |       |      |       |       |      |       |       |      |       |       |      |
| Minimum Initial (s)     | 10.0  | 10.0  |      | 10.0  | 10.0  |      | 10.0  | 10.0  |      | 10.0  | 10.0  |      |
| Minimum Split (s)       | 14.0  | 14.0  |      | 14.0  | 14.0  |      | 14.0  | 14.0  |      | 14.0  | 14.0  |      |
| Total Split (s)         | 24.0  | 24.0  |      | 24.0  | 24.0  |      | 15.0  | 36.0  |      | 15.0  | 36.0  |      |
| Total Split (%)         | 32.0% | 32.0% |      | 32.0% | 32.0% |      | 20.0% | 48.0% |      | 20.0% | 48.0% |      |
| Maximum Green (s)       | 20.0  | 20.0  |      | 20.0  | 20.0  |      | 11.0  | 32.0  |      | 11.0  | 32.0  |      |
| Yellow Time (s)         | 3.0   | 3.0   |      | 3.0   | 3.0   |      | 3.0   | 3.0   |      | 3.0   | 3.0   |      |
| All-Red Time (s)        | 1.0   | 1.0   |      | 1.0   | 1.0   |      | 1.0   | 1.0   |      | 1.0   | 1.0   |      |
| Lost Time Adjust (s)    |       | 0.0   |      |       | 0.0   |      | 0.0   | 0.0   |      | 0.0   | 0.0   |      |
| Total Lost Time (s)     |       | 4.0   |      |       | 4.0   |      | 4.0   | 4.0   |      | 4.0   | 4.0   |      |
| Lead/Lag                |       |       |      |       |       |      | Lead  | Lag   |      | Lead  | Lag   |      |
| Lead-Lag Optimize?      |       |       |      |       |       |      | Yes   | Yes   |      | Yes   | Yes   |      |
| Vehicle Extension (s)   | 6.0   | 6.0   |      | 6.0   | 6.0   |      | 6.0   | 6.0   |      | 6.0   | 6.0   |      |
| Recall Mode             | None  | None  |      | None  | None  |      | None  | C-Max |      | None  | C-Max |      |
| Walk Time (s)           |       |       |      | 7.0   | 7.0   |      |       | 7.0   |      |       | 7.0   |      |
| Flash Dont Walk (s)     |       |       |      | 13.0  | 13.0  |      |       | 13.0  |      |       | 13.0  |      |
| Pedestrian Calls (#/hr) |       |       |      | 0     | 0     |      |       | 0     |      |       | 0     |      |
| Act Effct Green (s)     |       | 12.7  |      |       | 12.7  |      | 53.8  | 46.5  |      | 54.8  | 49.5  |      |
| Actuated g/C Ratio      |       | 0.17  |      |       | 0.17  |      | 0.72  | 0.62  |      | 0.73  | 0.66  |      |
| v/c Ratio               |       | 0.44  |      |       | 0.42  |      | 0.14  | 0.70  |      | 0.21  | 0.69  |      |
| Control Delay           |       | 26.0  |      |       | 18.7  |      | 4.8   | 16.3  |      | 8.0   | 11.8  |      |

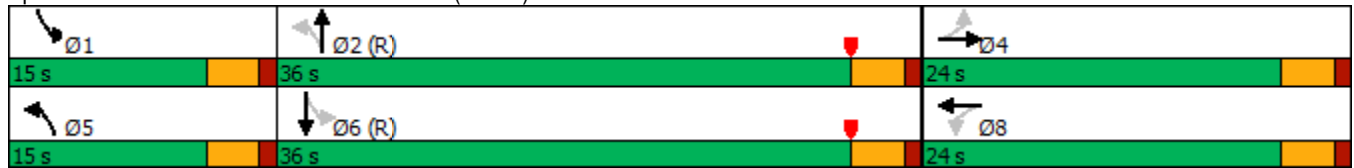




















| Lane Group              | EBL | EBT  | EBR | WBL | WBT  | WBR | NBL  | NBT  | NBR | SBL  | SBT  | SBR |
|-------------------------|-----|------|-----|-----|------|-----|------|------|-----|------|------|-----|
| Queue Delay             |     | 0.0  |     |     | 0.0  |     | 0.0  | 0.0  |     | 0.0  | 0.0  |     |
| Total Delay             |     | 26.0 |     |     | 18.7 |     | 4.8  | 16.3 |     | 8.0  | 11.8 |     |
| LOS                     |     | C    |     |     | B    |     | A    | B    |     | A    | B    |     |
| Approach Delay          |     | 26.0 |     |     | 18.7 |     |      | 16.0 |     |      | 11.6 |     |
| Approach LOS            |     | C    |     |     | B    |     |      | B    |     |      | B    |     |
| Queue Length 50th (ft)  |     | 33   |     |     | 28   |     | 4    | 259  |     | 8    | 161  |     |
| Queue Length 95th (ft)  |     | 73   |     |     | 71   |     | 15   | #463 |     | m29  | #490 |     |
| Internal Link Dist (ft) |     | 102  |     |     | 382  |     |      | 105  |     |      | 64   |     |
| Turn Bay Length (ft)    |     |      |     |     |      |     | 130  |      |     | 155  |      |     |
| Base Capacity (vph)     |     | 367  |     |     | 461  |     | 328  | 2054 |     | 362  | 2256 |     |
| Starvation Cap Reductn  |     | 0    |     |     | 0    |     | 0    | 0    |     | 0    | 0    |     |
| Spillback Cap Reductn   |     | 0    |     |     | 0    |     | 0    | 0    |     | 0    | 0    |     |
| Storage Cap Reductn     |     | 0    |     |     | 0    |     | 0    | 0    |     | 0    | 0    |     |
| Reduced v/c Ratio       |     | 0.29 |     |     | 0.29 |     | 0.13 | 0.70 |     | 0.20 | 0.69 |     |

Intersection Summary

Area Type: Other  
 Cycle Length: 75  
 Actuated Cycle Length: 75  
 Offset: 72 (96%), Referenced to phase 2:NBTL and 6:SBTL, Start of Yellow  
 Natural Cycle: 60  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.70  
 Intersection Signal Delay: 14.3  
 Intersection LOS: B  
 Intersection Capacity Utilization 66.3%  
 ICU Level of Service C  
 Analysis Period (min) 15  
 # 95th percentile volume exceeds capacity, queue may be longer.  
 Queue shown is maximum after two cycles.  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 50: North Airmont Road (CR 89) & North DeBaun Avenue



|                              |  |  |  |  |  |  |   |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement                     | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations          |   |  |   |   |  |   |  |  |   |  |  |   |
| Traffic Volume (veh/h)       | 66  | 2   | 31  | 59  | 2   | 62  | 40  | 1248  | 68  | 67  | 1421  | 11  |
| Future Volume (veh/h)        | 66  | 2   | 31  | 59  | 2   | 62  | 40  | 1248  | 68  | 67  | 1421  | 11  |
| Initial Q (Qb), veh          | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 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  |   |
| Adj Sat Flow, veh/h/ln       | 1884  | 1976  | 1914  | 1976  | 1976  | 1976  | 1811  | 1826  | 1900  | 2057  | 1997  | 2057  |
| Adj Flow Rate, veh/h         | 72  | 2   | 34  | 64  | 2   | 67  | 43  | 1357  | 74  | 73  | 1545  | 12  |
| Peak Hour Factor             | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  |
| Percent Heavy Veh, %         | 6   | 0   | 4   | 0   | 0   | 0   | 6   | 5   | 0   | 0   | 4   | 0   |
| Cap, veh/h                   | 212   | 21  | 70  | 161   | 21  | 113   | 354   | 2019  | 110   | 437   | 2426  | 19  |
| Arrive On Green              | 0.13  | 0.13  | 0.13  | 0.13  | 0.13  | 0.13  | 0.08  | 0.60  | 0.60  | 0.10  | 0.63  | 0.63  |
| Sat Flow, veh/h              | 994   | 156   | 528   | 679   | 161   | 853   | 1725  | 3346  | 182   | 1959  | 3859  | 30  |
| Grp Volume(v), veh/h         | 108   | 0   | 0   | 133   | 0   | 0   | 43  | 702   | 729   | 73  | 759   | 798   |
| Grp Sat Flow(s),veh/h/ln     | 1678  | 0   | 0   | 1692  | 0   | 0   | 1725  | 1735  | 1793  | 1959  | 1897  | 1992  |
| Q Serve(g_s), s              | 0.0   | 0.0   | 0.0   | 1.1   | 0.0   | 0.0   | 0.6   | 20.2  | 20.4  | 0.8   | 18.6  | 18.6  |
| Cycle Q Clear(g_c), s        | 4.0   | 0.0   | 0.0   | 5.1   | 0.0   | 0.0   | 0.6   | 20.2  | 20.4  | 0.8   | 18.6  | 18.6  |
| Prop In Lane                 | 0.67  |   | 0.31  | 0.48  |   | 0.50  | 1.00  |   | 0.10  | 1.00  |   | 0.02  |
| Lane Grp Cap(c), veh/h       | 302   | 0   | 0   | 295   | 0   | 0   | 354   | 1047  | 1082  | 437   | 1193  | 1252  |
| V/C Ratio(X)                 | 0.36  | 0.00  | 0.00  | 0.45  | 0.00  | 0.00  | 0.12  | 0.67  | 0.67  | 0.17  | 0.64  | 0.64  |
| Avail Cap(c_a), veh/h        | 502   | 0   | 0   | 505   | 0   | 0   | 471   | 1047  | 1082  | 520   | 1193  | 1252  |
| 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(I)           | 1.00  | 0.00  | 0.00  | 1.00  | 0.00  | 0.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Uniform Delay (d), s/veh     | 30.0  | 0.0   | 0.0   | 30.4  | 0.0   | 0.0   | 6.0   | 9.9   | 9.9   | 6.7   | 8.6   | 8.6   |
| Incr Delay (d2), s/veh       | 2.6   | 0.0   | 0.0   | 3.9   | 0.0   | 0.0   | 0.6   | 3.4   | 3.4   | 0.6   | 2.6   | 2.5   |
| 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   | 0.0   |
| %ile BackOfQ(95%),veh/ln     | 3.5   | 0.0   | 0.0   | 4.5   | 0.0   | 0.0   | 0.4   | 11.8  | 12.1  | 0.6   | 11.3  | 11.7  |
| Unsig. Movement Delay, s/veh |   |   |   |   |   |   |   |   |   |   |   |   |
| LnGrp Delay(d),s/veh         | 32.5  | 0.0   | 0.0   | 34.3  | 0.0   | 0.0   | 6.6   | 13.3  | 13.3  | 7.3   | 11.2  | 11.1  |
| LnGrp LOS                    | C   | A   | A   | C   | A   | A   | A   | B   | B   | A   | B   | B   |
| Approach Vol, veh/h          |   | 108   |   |   | 133   |   |   | 1474  |   |   | 1630  |   |
| Approach Delay, s/veh        |   | 32.5  |   |   | 34.3  |   |   | 13.1  |   |   | 11.0  |   |
| Approach LOS                 |   | C   |   |   | C   |   |   | B   |   |   | B   |   |
| Timer - Assigned Phs         | 1   | 2   |   | 4   | 5   | 6   |   | 8   |   |   |   |   |
| Phs Duration (G+Y+Rc), s     | 11.8  | 49.3  |   | 13.9  | 9.9   | 51.1  |   | 13.9  |   |   |   |   |
| Change Period (Y+Rc), s      | 4.0   | 4.0   |   | 4.0   | 4.0   | 4.0   |   | 4.0   |   |   |   |   |
| Max Green Setting (Gmax), s  | 11.0  | 32.0  |   | 20.0  | 11.0  | 32.0  |   | 20.0  |   |   |   |   |
| Max Q Clear Time (g_c+I1), s | 2.8   | 22.4  |   | 6.0   | 2.6   | 20.6  |   | 7.1   |   |   |   |   |
| Green Ext Time (p_c), s      | 0.2   | 8.7   |   | 0.9   | 0.1   | 10.5  |   | 1.1   |   |   |   |   |
| <b>Intersection Summary</b>  |   |   |   |   |   |   |   |   |   |   |   |   |
| HCM 6th Ctrl Delay           |   |   |   | 13.6  |   |   |   |   |   |   |   |   |
| HCM 6th LOS                  |   |   |   | B   |   |   |   |   |   |   |   |   |

| Lane Group              | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations     |       |       |       |       |       |       |       |       |       |       |       |       |
| Traffic Volume (vph)    | 129   | 9     | 238   | 92    | 34    | 72    | 293   | 790   | 48    | 35    | 875   | 120   |
| Future Volume (vph)     | 129   | 9     | 238   | 92    | 34    | 72    | 293   | 790   | 48    | 35    | 875   | 120   |
| Ideal Flow (vphpl)      | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Lane Width (ft)         | 12    | 12    | 10    | 11    | 10    | 10    | 11    | 12    | 12    | 13    | 13    | 11    |
| Grade (%)               |       | 6%    |       |       | -6%   |       |       | 2%    |       |       | -4%   |       |
| Storage Length (ft)     | 0     |       | 140   | 90    |       | 35    | 290   |       | 0     | 290   |       | 0     |
| Storage Lanes           | 0     |       | 1     | 1     |       | 1     | 1     |       | 0     | 1     |       | 0     |
| Taper Length (ft)       | 25    |       |       | 25    |       |       | 65    |       |       | 50    |       |       |
| Lane Util. Factor       | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 0.95  | 0.95  | 1.00  | 0.95  | 0.95  |
| Frt                     |       |       | 0.850 |       |       |       | 0.850 |       | 0.991 |       |       | 0.982 |
| Flt Protected           |       | 0.955 |       | 0.950 |       |       | 0.950 |       |       | 0.950 |       |       |
| Satd. Flow (prot)       | 0     | 1666  | 1433  | 1762  | 1723  | 1553  | 1710  | 3352  | 0     | 1745  | 3541  | 0     |
| Flt Permitted           |       | 0.713 |       | 0.651 |       |       | 0.126 |       |       | 0.322 |       |       |
| Satd. Flow (perm)       | 0     | 1244  | 1433  | 1207  | 1723  | 1553  | 227   | 3352  | 0     | 592   | 3541  | 0     |
| Right Turn on Red       |       |       | Yes   |       |       | Yes   |       |       | Yes   |       |       | Yes   |
| Satd. Flow (RTOR)       |       |       | 44    |       |       | 102   |       | 10    |       |       |       | 23    |
| Link Speed (mph)        |       | 30    |       |       | 25    |       |       | 30    |       |       |       | 30    |
| Link Distance (ft)      |       | 682   |       |       | 448   |       |       | 781   |       |       |       | 587   |
| Travel Time (s)         |       | 15.5  |       |       | 12.2  |       |       | 17.8  |       |       |       | 13.3  |
| Peak Hour Factor        | 0.95  | 0.95  | 0.95  | 0.95  | 0.95  | 0.95  | 0.95  | 0.95  | 0.95  | 0.95  | 0.95  | 0.95  |
| Heavy Vehicles (%)      | 6%    | 0%    | 2%    | 2%    | 6%    | 0%    | 1%    | 6%    | 0%    | 9%    | 6%    | 2%    |
| Shared Lane Traffic (%) |       |       |       |       |       |       |       |       |       |       |       |       |
| Lane Group Flow (vph)   | 0     | 145   | 251   | 97    | 36    | 76    | 308   | 883   | 0     | 37    | 1047  | 0     |
| Turn Type               | Perm  | NA    | pm+ov | Perm  | NA    | Perm  | pm+pt | NA    |       | pm+pt | NA    |       |
| Protected Phases        |       | 4     | 5     |       | 8     |       | 5     | 2     |       | 1     | 6     |       |
| Permitted Phases        | 4     |       | 4     | 8     |       | 8     | 2     |       |       | 6     |       |       |
| Detector Phase          | 4     | 4     | 5     | 8     | 8     | 8     | 5     | 2     |       | 1     | 6     |       |
| Switch Phase            |       |       |       |       |       |       |       |       |       |       |       |       |
| Minimum Initial (s)     | 10.0  | 10.0  | 5.0   | 10.0  | 10.0  | 10.0  | 5.0   | 10.0  |       | 5.0   | 10.0  |       |
| Minimum Split (s)       | 15.0  | 15.0  | 10.0  | 15.0  | 15.0  | 15.0  | 10.0  | 15.0  |       | 10.0  | 15.0  |       |
| Total Split (s)         | 30.0  | 30.0  | 11.0  | 30.0  | 30.0  | 30.0  | 11.0  | 34.0  |       | 11.0  | 34.0  |       |
| Total Split (%)         | 40.0% | 40.0% | 14.7% | 40.0% | 40.0% | 40.0% | 14.7% | 45.3% |       | 14.7% | 45.3% |       |
| Maximum Green (s)       | 25.0  | 25.0  | 6.0   | 25.0  | 25.0  | 25.0  | 6.0   | 29.0  |       | 6.0   | 29.0  |       |
| 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)        | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |       | 1.0   | 1.0   |       |
| Lost Time Adjust (s)    |       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |       | 0.0   | 0.0   |       |
| Total Lost Time (s)     |       | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |       | 5.0   | 5.0   |       |
| Lead/Lag                |       |       | Lead  |       |       |       | Lead  | Lag   |       | Lead  | Lag   |       |
| Lead-Lag Optimize?      |       |       | Yes   |       |       |       | Yes   | Yes   |       | Yes   | Yes   |       |
| Vehicle Extension (s)   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |       | 3.0   | 3.0   |       |
| Recall Mode             | None  | None  | None  | None  | None  | None  | None  | C-Min |       | None  | C-Min |       |
| Act Effct Green (s)     |       | 14.6  | 38.2  | 14.6  | 14.6  | 14.6  | 50.0  | 43.4  |       | 33.1  | 26.8  |       |
| Actuated g/C Ratio      |       | 0.19  | 0.51  | 0.19  | 0.19  | 0.19  | 0.67  | 0.58  |       | 0.44  | 0.36  |       |
| v/c Ratio               |       | 0.60  | 0.33  | 0.41  | 0.11  | 0.20  | 0.59  | 0.45  |       | 0.10  | 0.82  |       |
| Control Delay           |       | 37.2  | 11.1  | 30.6  | 23.5  | 4.2   | 18.2  | 13.1  |       | 7.1   | 27.1  |       |
| Queue Delay             |       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |       | 0.0   | 0.0   |       |
| Total Delay             |       | 37.2  | 11.1  | 30.6  | 23.5  | 4.2   | 18.2  | 13.1  |       | 7.1   | 27.1  |       |
| LOS                     |       | D     | B     | C     | C     | A     | B     | B     |       | A     | C     |       |



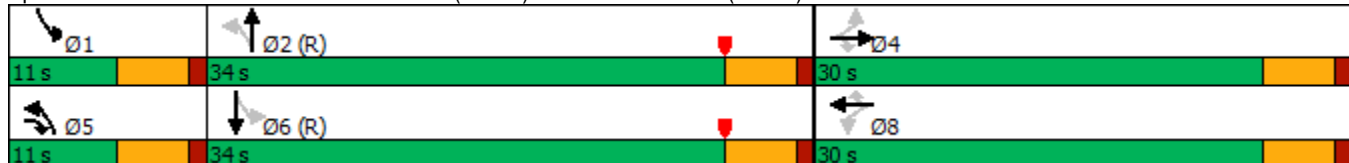


| Lane Group              | EBL | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR | SBL  | SBT | SBR  |
|-------------------------|-----|------|------|------|------|------|------|------|-----|------|-----|------|
| Approach Delay          |     | 20.6 |      |      | 19.8 |      |      | 14.4 |     |      |     | 26.4 |
| Approach LOS            |     | C    |      |      | B    |      |      | B    |     |      |     | C    |
| Queue Length 50th (ft)  |     | 63   | 54   | 40   | 14   | 0    | 48   | 170  |     | 5    |     | 216  |
| Queue Length 95th (ft)  |     | 108  | 106  | 75   | 34   | 20   | #225 | 260  |     | 17   |     | 285  |
| Internal Link Dist (ft) |     | 602  |      |      | 368  |      |      | 701  |     |      |     | 507  |
| Turn Bay Length (ft)    |     |      | 140  | 90   |      | 35   | 290  |      |     | 290  |     |      |
| Base Capacity (vph)     |     | 414  | 750  | 402  | 574  | 585  | 518  | 1941 |     | 361  |     | 1383 |
| Starvation Cap Reductn  |     | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     | 0    |     | 0    |
| Spillback Cap Reductn   |     | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     | 0    |     | 0    |
| Storage Cap Reductn     |     | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     | 0    |     | 0    |
| Reduced v/c Ratio       |     | 0.35 | 0.33 | 0.24 | 0.06 | 0.13 | 0.59 | 0.45 |     | 0.10 |     | 0.76 |

Intersection Summary

Area Type: Other  
 Cycle Length: 75  
 Actuated Cycle Length: 75  
 Offset: 56 (75%), Referenced to phase 2:NBTL and 6:SBTL, Start of Yellow  
 Natural Cycle: 60  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.82  
 Intersection Signal Delay: 20.2  
 Intersection LOS: C  
 Intersection Capacity Utilization 71.0%  
 ICU Level of Service C  
 Analysis Period (min) 15  
 # 95th percentile volume exceeds capacity, queue may be longer.  
 Queue shown is maximum after two cycles.

Splits and Phases: 60: North Airmont Road (CR 89) & Montebello Road (CR 64)/Rella Boulevard



| Movement                     | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations          |      |      |      |      |      |      |      |      |      |      |      |      |
| Traffic Volume (veh/h)       | 129  | 9    | 238  | 92   | 34   | 72   | 293  | 790  | 48   | 35   | 875  | 120  |
| Future Volume (veh/h)        | 129  | 9    | 238  | 92   | 34   | 72   | 293  | 790  | 48   | 35   | 875  | 120  |
| Initial Q (Qb), veh          | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 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   |      |
| Adj Sat Flow, veh/h/ln       | 1599 | 1688 | 1658 | 2106 | 2046 | 2136 | 1862 | 1788 | 1876 | 1999 | 2046 | 2027 |
| Adj Flow Rate, veh/h         | 136  | 9    | 251  | 97   | 36   | 76   | 308  | 832  | 51   | 37   | 921  | 126  |
| Peak Hour Factor             | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, %         | 6    | 0    | 2    | 2    | 6    | 0    | 1    | 6    | 0    | 9    | 6    | 2    |
| Cap, veh/h                   | 310  | 17   | 391  | 457  | 406  | 359  | 424  | 1839 | 113  | 515  | 1792 | 245  |
| Arrive On Green              | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.16 | 1.00 | 1.00 | 0.04 | 0.52 | 0.52 |
| Sat Flow, veh/h              | 1096 | 88   | 1405 | 1583 | 2046 | 1810 | 1773 | 3251 | 199  | 1904 | 3435 | 470  |
| Grp Volume(v), veh/h         | 145  | 0    | 251  | 97   | 36   | 76   | 308  | 435  | 448  | 37   | 521  | 526  |
| Grp Sat Flow(s),veh/h/ln     | 1183 | 0    | 1405 | 1583 | 2046 | 1810 | 1773 | 1698 | 1752 | 1904 | 1944 | 1961 |
| Q Serve(g_s), s              | 7.8  | 0.0  | 11.8 | 0.0  | 1.1  | 2.6  | 6.0  | 0.0  | 0.0  | 0.7  | 13.1 | 13.1 |
| Cycle Q Clear(g_c), s        | 8.8  | 0.0  | 11.8 | 3.1  | 1.1  | 2.6  | 6.0  | 0.0  | 0.0  | 0.7  | 13.1 | 13.1 |
| Prop In Lane                 | 0.94 |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 0.11 | 1.00 |      | 0.24 |
| Lane Grp Cap(c), veh/h       | 328  | 0    | 391  | 457  | 406  | 359  | 424  | 961  | 991  | 515  | 1014 | 1023 |
| V/C Ratio(X)                 | 0.44 | 0.00 | 0.64 | 0.21 | 0.09 | 0.21 | 0.73 | 0.45 | 0.45 | 0.07 | 0.51 | 0.51 |
| Avail Cap(c_a), veh/h        | 498  | 0    | 581  | 670  | 682  | 603  | 424  | 961  | 991  | 599  | 1014 | 1023 |
| HCM Platoon Ratio            | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 | 2.00 | 2.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I)           | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.84 | 0.84 | 0.84 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh     | 28.0 | 0.0  | 23.8 | 25.3 | 24.5 | 25.2 | 10.7 | 0.0  | 0.0  | 7.5  | 11.7 | 11.7 |
| Incr Delay (d2), s/veh       | 0.9  | 0.0  | 1.8  | 0.2  | 0.1  | 0.3  | 5.2  | 1.3  | 1.3  | 0.1  | 1.9  | 1.8  |
| 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(95%),veh/ln     | 4.3  | 0.0  | 7.1  | 2.6  | 0.9  | 2.1  | 4.3  | 0.6  | 0.6  | 0.4  | 9.4  | 9.5  |
| Unsig. Movement Delay, s/veh |      |      |      |      |      |      |      |      |      |      |      |      |
| LnGrp Delay(d),s/veh         | 29.0 | 0.0  | 25.5 | 25.6 | 24.6 | 25.4 | 16.0 | 1.3  | 1.3  | 7.5  | 13.6 | 13.6 |
| LnGrp LOS                    | C    | A    | C    | C    | C    | C    | B    | A    | A    | A    | B    | B    |
| Approach Vol, veh/h          |      | 396  |      |      | 209  |      |      | 1191 |      |      | 1084 |      |
| Approach Delay, s/veh        |      | 26.8 |      |      | 25.4 |      |      | 5.1  |      |      | 13.4 |      |
| Approach LOS                 |      | C    |      |      | C    |      |      | A    |      |      | B    |      |
| Timer - Assigned Phs         | 1    | 2    |      | 4    | 5    | 6    |      | 8    |      |      |      |      |
| Phs Duration (G+Y+Rc), s     | 7.7  | 47.4 |      | 19.9 | 11.0 | 44.1 |      | 19.9 |      |      |      |      |
| Change Period (Y+Rc), s      | 5.0  | 5.0  |      | 5.0  | 5.0  | 5.0  |      | 5.0  |      |      |      |      |
| Max Green Setting (Gmax), s  | 6.0  | 29.0 |      | 25.0 | 6.0  | 29.0 |      | 25.0 |      |      |      |      |
| Max Q Clear Time (g_c+I1), s | 2.7  | 2.0  |      | 13.8 | 8.0  | 15.1 |      | 5.1  |      |      |      |      |
| Green Ext Time (p_c), s      | 0.0  | 3.3  |      | 1.1  | 0.0  | 3.5  |      | 0.6  |      |      |      |      |
| <b>Intersection Summary</b>  |      |      |      |      |      |      |      |      |      |      |      |      |
| HCM 6th Ctrl Delay           |      |      |      | 12.7 |      |      |      |      |      |      |      |      |
| HCM 6th LOS                  |      |      |      | B    |      |      |      |      |      |      |      |      |

| Intersection             |      |      |      |      |      |      |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh         | 0.7  |      |      |      |      |      |
| Movement                 | WBL  | WBR  | NBT  | NBR  | SBL  | SBT  |
| Lane Configurations      |      |      |      |      |      |      |
| Traffic Vol, veh/h       | 29   | 18   | 474  | 9    | 5    | 505  |
| Future Vol, veh/h        | 29   | 18   | 474  | 9    | 5    | 505  |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Stop | Stop | Free | Free | Free | Free |
| RT Channelized           | -    | None | -    | None | -    | None |
| Storage Length           | 0    | -    | -    | -    | -    | -    |
| Veh in Median Storage, # | 0    | -    | 0    | -    | -    | 0    |
| Grade, %                 | -8   | -    | -1   | -    | -    | -3   |
| Peak Hour Factor         | 83   | 83   | 83   | 83   | 83   | 83   |
| Heavy Vehicles, %        | 0    | 0    | 5    | 0    | 0    | 6    |
| Mvmt Flow                | 35   | 22   | 571  | 11   | 6    | 608  |

| Major/Minor          | Minor1 | Major1 | Major2 |   |      |
|----------------------|--------|--------|--------|---|------|
| Conflicting Flow All | 1197   | 577    | 0      | 0 | 582  |
| Stage 1              | 577    | -      | -      | - | -    |
| Stage 2              | 620    | -      | -      | - | -    |
| Critical Hdwy        | 4.8    | 5.4    | -      | - | 4.1  |
| Critical Hdwy Stg 1  | 3.8    | -      | -      | - | -    |
| Critical Hdwy Stg 2  | 3.8    | -      | -      | - | -    |
| Follow-up Hdwy       | 3.5    | 3.3    | -      | - | 2.2  |
| Pot Cap-1 Maneuver   | 353    | 591    | -      | - | 1002 |
| Stage 1              | 731    | -      | -      | - | -    |
| Stage 2              | 712    | -      | -      | - | -    |
| Platoon blocked, %   |        |        | -      | - | -    |
| Mov Cap-1 Maneuver   | 350    | 591    | -      | - | 1002 |
| Mov Cap-2 Maneuver   | 350    | -      | -      | - | -    |
| Stage 1              | 731    | -      | -      | - | -    |
| Stage 2              | 706    | -      | -      | - | -    |

| Approach             | WB | NB | SB  |
|----------------------|----|----|-----|
| HCM Control Delay, s | 15 | 0  | 0.1 |
| HCM LOS              | C  |    |     |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL   | SBT   |
|-----------------------|-----|----------|-------|-------|
| Capacity (veh/h)      | -   | -        | 415   | 1002  |
| HCM Lane V/C Ratio    | -   | -        | 0.136 | 0.006 |
| HCM Control Delay (s) | -   | -        | 15    | 8.6   |
| HCM Lane LOS          | -   | -        | C     | A     |
| HCM 95th %tile Q(veh) | -   | -        | 0.5   | 0     |

| Intersection             |      |      |      |      |      |      |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh         | 2.8  |      |      |      |      |      |
| Movement                 | EBT  | EBR  | WBL  | WBT  | NBL  | NBR  |
| Lane Configurations      | ↶    |      | ↷    | ↶    | ↷    |      |
| Traffic Vol, veh/h       | 847  | 18   | 171  | 836  | 23   | 113  |
| Future Vol, veh/h        | 847  | 18   | 171  | 836  | 23   | 113  |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Free | Free | Free | Free | Stop | Stop |
| RT Channelized           | -    | None | -    | None | -    | None |
| Storage Length           | -    | -    | 0    | -    | 0    | -    |
| Veh in Median Storage, # | 0    | -    | -    | 0    | 0    | -    |
| Grade, %                 | -4   | -    | -    | 2    | -4   | -    |
| Peak Hour Factor         | 94   | 94   | 94   | 94   | 94   | 94   |
| Heavy Vehicles, %        | 4    | 7    | 6    | 4    | 0    | 7    |
| Mvmt Flow                | 901  | 19   | 182  | 889  | 24   | 120  |

| Major/Minor          | Major1 | Major2 | Minor1 |   |      |
|----------------------|--------|--------|--------|---|------|
| Conflicting Flow All | 0      | 0      | 920    | 0 | 2164 |
| Stage 1              | -      | -      | -      | - | 911  |
| Stage 2              | -      | -      | -      | - | 1253 |
| Critical Hdwy        | -      | -      | 4.16   | - | 5.6  |
| Critical Hdwy Stg 1  | -      | -      | -      | - | 4.6  |
| Critical Hdwy Stg 2  | -      | -      | -      | - | 4.6  |
| Follow-up Hdwy       | -      | -      | 2.254  | - | 3.5  |
| Pot Cap-1 Maneuver   | -      | -      | 726    | - | 85   |
| Stage 1              | -      | -      | -      | - | 484  |
| Stage 2              | -      | -      | -      | - | 359  |
| Platoon blocked, %   | -      | -      | -      | - | -    |
| Mov Cap-1 Maneuver   | -      | -      | 726    | - | 64   |
| Mov Cap-2 Maneuver   | -      | -      | -      | - | 184  |
| Stage 1              | -      | -      | -      | - | 484  |
| Stage 2              | -      | -      | -      | - | 269  |

| Approach             | EB | WB | NB   |
|----------------------|----|----|------|
| HCM Control Delay, s | 0  | 2  | 26.4 |
| HCM LOS              |    |    | D    |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL   | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h)      | 310   | -   | -   | 726   | -   |
| HCM Lane V/C Ratio    | 0.467 | -   | -   | 0.251 | -   |
| HCM Control Delay (s) | 26.4  | -   | -   | 11.6  | -   |
| HCM Lane LOS          | D     | -   | -   | B     | -   |
| HCM 95th %tile Q(veh) | 2.4   | -   | -   | 1     | -   |

| Intersection             |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh         | 40.5 |      |      |      |      |      |      |      |      |      |      |      |
| Movement                 | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
| Lane Configurations      |      | ↕    |      |      | ↕    |      |      | ↕    |      |      | ↕    |      |
| Traffic Vol, veh/h       | 0    | 78   | 173  | 257  | 151  | 6    | 163  | 8    | 206  | 3    | 5    | 3    |
| Future Vol, veh/h        | 0    | 78   | 173  | 257  | 151  | 6    | 163  | 8    | 206  | 3    | 5    | 3    |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized           | -    | -    | None | -    | -    | None | -    | -    | None | -    | -    | None |
| Storage Length           | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| Veh in Median Storage, # | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Grade, %                 | -    | 6    | -    | -    | -2   | -    | -    | -4   | -    | -    | -2   | -    |
| Peak Hour Factor         | 89   | 89   | 89   | 89   | 89   | 89   | 89   | 89   | 89   | 89   | 89   | 89   |
| Heavy Vehicles, %        | 0    | 11   | 5    | 7    | 8    | 17   | 4    | 0    | 6    | 0    | 25   | 0    |
| Mvmt Flow                | 0    | 88   | 194  | 289  | 170  | 7    | 183  | 9    | 231  | 3    | 6    | 3    |

| Major/Minor          | Major1 |   |   | Major2 |   |   | Minor1 |     |       | Minor2 |       |     |
|----------------------|--------|---|---|--------|---|---|--------|-----|-------|--------|-------|-----|
| Conflicting Flow All | 177    | 0 | 0 | 282    | 0 | 0 | 941    | 940 | 185   | 1057   | 1034  | 174 |
| Stage 1              | -      | - | - | -      | - | - | 185    | 185 | -     | 752    | 752   | -   |
| Stage 2              | -      | - | - | -      | - | - | 756    | 755 | -     | 305    | 282   | -   |
| Critical Hdwy        | 4.1    | - | - | 4.17   | - | - | 6.34   | 5.7 | 5.86  | 6.7    | 6.35  | 6   |
| Critical Hdwy Stg 1  | -      | - | - | -      | - | - | 5.34   | 4.7 | -     | 5.7    | 5.35  | -   |
| Critical Hdwy Stg 2  | -      | - | - | -      | - | - | 5.34   | 4.7 | -     | 5.7    | 5.35  | -   |
| Follow-up Hdwy       | 2.2    | - | - | 2.263  | - | - | 3.536  | 4   | 3.354 | 3.5    | 4.225 | 3.3 |
| Pot Cap-1 Maneuver   | 1411   | - | - | 1252   | - | - | 297    | 327 | 865   | 230    | 237   | 883 |
| Stage 1              | -      | - | - | -      | - | - | 846    | 782 | -     | 441    | 420   | -   |
| Stage 2              | -      | - | - | -      | - | - | 470    | 496 | -     | 733    | 658   | -   |
| Platoon blocked, %   |        | - | - | -      | - | - |        |     |       |        |       |     |
| Mov Cap-1 Maneuver   | 1411   | - | - | 1252   | - | - | 232    | 243 | 865   | 132    | 176   | 883 |
| Mov Cap-2 Maneuver   | -      | - | - | -      | - | - | 232    | 243 | -     | 132    | 176   | -   |
| Stage 1              | -      | - | - | -      | - | - | 846    | 782 | -     | 441    | 312   | -   |
| Stage 2              | -      | - | - | -      | - | - | 342    | 369 | -     | 531    | 658   | -   |

| Approach             | EB |  |  | WB  |  |  | NB    |  |  | SB |  |  |
|----------------------|----|--|--|-----|--|--|-------|--|--|----|--|--|
| HCM Control Delay, s | 0  |  |  | 5.4 |  |  | 106.5 |  |  | 24 |  |  |
| HCM LOS              |    |  |  |     |  |  | F     |  |  | C  |  |  |

| Minor Lane/Major Mvmt | NBLn1 | EBL  | EBT | EBR | WBL   | WBT | WBR | SBLn1 |
|-----------------------|-------|------|-----|-----|-------|-----|-----|-------|
| Capacity (veh/h)      | 387   | 1411 | -   | -   | 1252  | -   | -   | 202   |
| HCM Lane V/C Ratio    | 1.095 | -    | -   | -   | 0.231 | -   | -   | 0.061 |
| HCM Control Delay (s) | 106.5 | 0    | -   | -   | 8.7   | 0   | -   | 24    |
| HCM Lane LOS          | F     | A    | -   | -   | A     | A   | -   | C     |
| HCM 95th %tile Q(veh) | 15.1  | 0    | -   | -   | 0.9   | -   | -   | 0.2   |

| Lane Group              | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR  | SBL   | SBT   | SBR   |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| Lane Configurations     |       |       |       |       |       |       |       |       |      |       |       |       |
| Traffic Volume (vph)    | 185   | 491   | 47    | 129   | 513   | 93    | 125   | 196   | 59   | 160   | 194   | 152   |
| Future Volume (vph)     | 185   | 491   | 47    | 129   | 513   | 93    | 125   | 196   | 59   | 160   | 194   | 152   |
| Ideal Flow (vphpl)      | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900 | 1900  | 1900  | 1900  |
| Lane Width (ft)         | 11    | 11    | 11    | 12    | 12    | 12    | 15    | 12    | 12   | 13    | 13    | 13    |
| Grade (%)               |       | 0%    |       |       | 0%    |       |       | -3%   |      |       | -4%   |       |
| Storage Length (ft)     | 75    |       | 310   | 180   |       | 560   | 150   |       | 0    | 145   |       | 0     |
| Storage Lanes           | 1     |       | 1     | 1     |       | 1     | 1     |       | 0    | 1     |       | 0     |
| Taper Length (ft)       | 115   |       |       | 105   |       |       | 65    |       |      | 40    |       |       |
| Lane Util. Factor       | 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 Factor         |       |       |       |       |       |       | 0.98  | 1.00  | 0.99 |       | 1.00  | 0.99  |
| Frt                     |       |       | 0.850 |       |       | 0.850 |       | 0.965 |      |       |       | 0.934 |
| Flt Protected           | 0.950 |       |       | 0.950 |       |       | 0.950 |       |      | 0.950 |       |       |
| Satd. Flow (prot)       | 1678  | 1749  | 1432  | 1752  | 1727  | 1252  | 1901  | 1739  | 0    | 1572  | 1769  | 0     |
| Flt Permitted           | 0.115 |       |       | 0.116 |       |       | 0.151 |       |      | 0.321 |       |       |
| Satd. Flow (perm)       | 203   | 1749  | 1432  | 214   | 1727  | 1221  | 302   | 1739  | 0    | 530   | 1769  | 0     |
| Right Turn on Red       |       |       | Yes   |       |       | Yes   |       |       | Yes  |       |       | Yes   |
| Satd. Flow (RTOR)       |       |       | 138   |       |       | 138   |       | 13    |      |       |       | 33    |
| Link Speed (mph)        |       | 30    |       |       | 30    |       |       | 30    |      |       |       | 30    |
| Link Distance (ft)      |       | 581   |       |       | 1449  |       |       | 423   |      |       |       | 450   |
| Travel Time (s)         |       | 13.2  |       |       | 32.9  |       |       | 9.6   |      |       |       | 10.2  |
| Confl. Peds. (#/hr)     | 2     |       |       |       |       |       | 2     | 1     |      | 2     | 2     | 1     |
| Peak Hour Factor        | 0.82  | 0.82  | 0.82  | 0.82  | 0.82  | 0.82  | 0.82  | 0.82  | 0.82 | 0.82  | 0.82  | 0.82  |
| Heavy Vehicles (%)      | 4%    | 5%    | 9%    | 3%    | 10%   | 29%   | 6%    | 5%    | 11%  | 21%   | 6%    | 3%    |
| Shared Lane Traffic (%) |       |       |       |       |       |       |       |       |      |       |       |       |
| Lane Group Flow (vph)   | 226   | 599   | 57    | 157   | 626   | 113   | 152   | 311   | 0    | 195   | 422   | 0     |
| Turn Type               | pm+pt | NA    | pm+ov | pm+pt | NA    | pm+ov | pm+pt | NA    |      | pm+pt | NA    |       |
| Protected Phases        | 5     | 2     | 3     | 1     | 6     | 7     | 3     | 8     |      | 7     | 4     |       |
| Permitted Phases        | 2     | 9     | 2     | 6     | 9     | 6     | 8     |       |      | 4     |       |       |
| Detector Phase          | 5     | 2     | 3     | 1     | 6     | 7     | 3     | 8     |      | 7     | 4     |       |
| Switch Phase            |       |       |       |       |       |       |       |       |      |       |       |       |
| Minimum Initial (s)     | 3.0   | 10.0  | 3.0   | 3.0   | 10.0  | 3.0   | 3.0   | 5.0   |      | 3.0   | 5.0   |       |
| Minimum Split (s)       | 9.0   | 16.0  | 9.0   | 9.0   | 16.0  | 9.0   | 9.0   | 11.0  |      | 9.0   | 11.0  |       |
| Total Split (s)         | 15.0  | 40.0  | 15.0  | 15.0  | 40.0  | 15.0  | 15.0  | 40.0  |      | 15.0  | 40.0  |       |
| Total Split (%)         | 12.6% | 33.6% | 12.6% | 12.6% | 33.6% | 12.6% | 12.6% | 33.6% |      | 12.6% | 33.6% |       |
| Maximum Green (s)       | 9.0   | 34.0  | 9.0   | 9.0   | 34.0  | 9.0   | 9.0   | 34.0  |      | 9.0   | 34.0  |       |
| 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   | Lead  | Lead  | Lag   | Lead  | Lead  | Lag   |      | Lead  | Lag   |       |
| Lead-Lag Optimize?      | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |      | Yes   | Yes   |       |
| Vehicle Extension (s)   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |      | 2.0   | 2.0   |       |
| Recall Mode             | None  | Min   | None  | None  | Min   | None  | None  | None  |      | None  | None  |       |
| Walk Time (s)           |       | 7.0   |       |       | 7.0   |       |       | 7.0   |      |       | 7.0   |       |
| Flash Dont Walk (s)     |       | 14.0  |       |       | 18.0  |       |       | 17.0  |      |       | 16.0  |       |
| Pedestrian Calls (#/hr) |       | 2     |       |       | 2     |       |       | 3     |      |       | 3     |       |
| Act Effct Green (s)     | 43.8  | 35.7  | 49.2  | 43.2  | 35.4  | 43.4  | 35.2  | 26.7  |      | 36.3  | 27.3  |       |
| Actuated g/C Ratio      | 0.41  | 0.33  | 0.46  | 0.40  | 0.33  | 0.41  | 0.33  | 0.25  |      | 0.34  | 0.26  |       |

|                           |      |
|---------------------------|------|
| Lane Group                | Ø9   |
| Lane Configurations       |      |
| Traffic Volume (vph)      |      |
| Future Volume (vph)       |      |
| Ideal Flow (vphpl)        |      |
| Lane Width (ft)           |      |
| Grade (%)                 |      |
| Storage Length (ft)       |      |
| Storage Lanes             |      |
| Taper Length (ft)         |      |
| Lane Util. Factor         |      |
| Ped Bike Factor           |      |
| Fr <sub>t</sub>           |      |
| Fl <sub>t</sub> Protected |      |
| Satd. Flow (prot)         |      |
| Fl <sub>t</sub> Permitted |      |
| Satd. Flow (perm)         |      |
| Right Turn on Red         |      |
| Satd. Flow (RTOR)         |      |
| Link Speed (mph)          |      |
| Link Distance (ft)        |      |
| Travel Time (s)           |      |
| Confl. Peds. (#/hr)       |      |
| Peak Hour Factor          |      |
| Heavy Vehicles (%)        |      |
| Shared Lane Traffic (%)   |      |
| Lane Group Flow (vph)     |      |
| Turn Type                 |      |
| Protected Phases          | 9    |
| Permitted Phases          |      |
| Detector Phase            |      |
| Switch Phase              |      |
| Minimum Initial (s)       | 3.0  |
| Minimum Split (s)         | 9.0  |
| Total Split (s)           | 9.0  |
| Total Split (%)           | 8%   |
| Maximum Green (s)         | 3.0  |
| Yellow Time (s)           | 4.0  |
| All-Red Time (s)          | 2.0  |
| Lost Time Adjust (s)      |      |
| Total Lost Time (s)       |      |
| Lead/Lag                  |      |
| Lead-Lag Optimize?        |      |
| Vehicle Extension (s)     | 2.0  |
| Recall Mode               | None |
| Walk Time (s)             |      |
| Flash Dont Walk (s)       |      |
| Pedestrian Calls (#/hr)   |      |
| Act Effct Green (s)       |      |
| Actuated g/C Ratio        |      |



| Lane Group              | EBL   | EBT  | EBR  | WBL  | WBT   | WBR  | NBL  | NBT  | NBR | SBL  | SBT  | SBR |
|-------------------------|-------|------|------|------|-------|------|------|------|-----|------|------|-----|
| v/c Ratio               | 1.09  | 1.02 | 0.08 | 0.74 | 1.09  | 0.19 | 0.67 | 0.70 |     | 0.73 | 0.89 |     |
| Control Delay           | 114.5 | 79.8 | 0.2  | 43.8 | 100.4 | 2.9  | 37.7 | 43.9 |     | 41.8 | 56.8 |     |
| Queue Delay             | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |     | 0.0  | 0.0  |     |
| Total Delay             | 114.5 | 79.8 | 0.2  | 43.8 | 100.4 | 2.9  | 37.7 | 43.9 |     | 41.8 | 56.8 |     |
| LOS                     | F     | E    | A    | D    | F     | A    | D    | D    |     | D    | E    |     |
| Approach Delay          |       | 83.6 |      |      | 78.2  |      |      | 41.9 |     |      | 52.0 |     |
| Approach LOS            |       | F    |      |      | E     |      |      | D    |     |      | D    |     |
| Queue Length 50th (ft)  | ~120  | ~437 | 0    | 59   | ~479  | 0    | 63   | 176  |     | 85   | 246  |     |
| Queue Length 95th (ft)  | #282  | #580 | 0    | #149 | #657  | 15   | 108  | 262  |     | 140  | 354  |     |
| Internal Link Dist (ft) |       | 501  |      |      | 1369  |      |      | 343  |     |      | 370  |     |
| Turn Bay Length (ft)    | 75    |      | 310  | 180  |       | 560  | 150  |      |     | 145  |      |     |
| Base Capacity (vph)     | 208   | 585  | 742  | 218  | 573   | 581  | 237  | 568  |     | 269  | 592  |     |
| 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       | 1.09  | 1.02 | 0.08 | 0.72 | 1.09  | 0.19 | 0.64 | 0.55 |     | 0.72 | 0.71 |     |

Intersection Summary

Area Type: Other  
 Cycle Length: 119  
 Actuated Cycle Length: 106.7  
 Natural Cycle: 110  
 Control Type: Actuated-Uncoordinated  
 Maximum v/c Ratio: 1.09  
 Intersection Signal Delay: 68.3  
 Intersection Capacity Utilization 83.7%  
 Analysis Period (min) 15  
 Intersection LOS: E  
 ICU Level of Service E

~ 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.

Splits and Phases: 10: Campbell Avenue/Hemion Road (CR 93) & Route 59

|                       |                     |                         |                     |                        |
|-----------------------|---------------------|-------------------------|---------------------|------------------------|
| #10<br>Ø9f Ø1<br>15 s | #10<br>→ Ø2<br>40 s | #10 #15<br>↙ Ø3<br>15 s | #10<br>↓ Ø4<br>40 s | #10 #15<br>← Ø5<br>9 s |
| #10<br>↗ Ø5<br>15 s   | #10<br>← Ø6<br>40 s | #10 #15<br>↘ Ø7<br>15 s | #10<br>↑ Ø8<br>40 s |                        |



|                         |    |
|-------------------------|----|
| Lane Group              | Ø9 |
| v/c Ratio               |    |
| Control Delay           |    |
| Queue Delay             |    |
| Total Delay             |    |
| LOS                     |    |
| Approach Delay          |    |
| Approach LOS            |    |
| Queue Length 50th (ft)  |    |
| Queue Length 95th (ft)  |    |
| Internal Link Dist (ft) |    |
| Turn Bay Length (ft)    |    |
| Base Capacity (vph)     |    |
| Starvation Cap Reductn  |    |
| Spillback Cap Reductn   |    |
| Storage Cap Reductn     |    |
| Reduced v/c Ratio       |    |
| Intersection Summary    |    |

HCM 6th Edition methodology does not support clustered intersections.

| Lane Group                | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR  | SBL   | SBT   | SBR   |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| Lane Configurations       |       |       |       |       |       |       |       |       |      |       |       |       |
| Traffic Volume (vph)      | 483   | 333   | 19    | 83    | 252   | 312   | 46    | 576   | 113  | 461   | 301   | 506   |
| Future Volume (vph)       | 483   | 333   | 19    | 83    | 252   | 312   | 46    | 576   | 113  | 461   | 301   | 506   |
| Ideal Flow (vphpl)        | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900 | 1900  | 1900  | 1900  |
| Lane Width (ft)           | 13    | 12    | 11    | 13    | 12    | 9     | 11    | 11    | 11   | 12    | 10    | 10    |
| Grade (%)                 |       | 4%    |       |       | -2%   |       |       | -5%   |      |       | 0%    |       |
| Storage Length (ft)       | 330   |       | 145   | 175   |       | 170   | 140   |       | 140  | 100   |       | 0     |
| Storage Lanes             | 1     |       | 1     | 1     |       | 1     | 1     |       | 1    | 1     |       | 1     |
| Taper Length (ft)         | 65    |       |       | 130   |       |       | 200   |       |      | 30    |       |       |
| Lane Util. Factor         | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 0.95  | 0.95 | 1.00  | 1.00  | 1.00  |
| Fr <sub>t</sub>           |       |       | 0.850 |       |       | 0.850 |       | 0.975 |      |       |       | 0.850 |
| Fl <sub>t</sub> Protected | 0.950 |       |       | 0.950 |       |       | 0.950 |       |      | 0.950 |       |       |
| Satd. Flow (prot)         | 1724  | 1724  | 1168  | 1811  | 1761  | 1299  | 1555  | 3343  | 0    | 1656  | 1627  | 1370  |
| Fl <sub>t</sub> Permitted | 0.152 |       |       | 0.556 |       |       | 0.261 |       |      | 0.127 |       |       |
| Satd. Flow (perm)         | 276   | 1724  | 1168  | 1060  | 1761  | 1299  | 427   | 3343  | 0    | 221   | 1627  | 1370  |
| Right Turn on Red         |       |       | Yes   |       |       | No    |       |       | Yes  |       |       | Yes   |
| Satd. Flow (RTOR)         |       |       | 98    |       |       |       |       | 11    |      |       |       | 416   |
| Link Speed (mph)          |       | 30    |       |       | 30    |       |       | 30    |      |       |       | 30    |
| Link Distance (ft)        |       | 1140  |       |       | 915   |       |       | 417   |      |       |       | 588   |
| Travel Time (s)           |       | 25.9  |       |       | 20.8  |       |       | 9.5   |      |       |       | 13.4  |
| Peak Hour Factor          | 0.98  | 0.98  | 0.98  | 0.98  | 0.98  | 0.98  | 0.98  | 0.98  | 0.98 | 0.98  | 0.98  | 0.98  |
| Heavy Vehicles (%)        | 6%    | 8%    | 31%   | 4%    | 9%    | 13%   | 15%   | 4%    | 6%   | 9%    | 9%    | 10%   |
| Shared Lane Traffic (%)   |       |       |       |       |       |       |       |       |      |       |       |       |
| Lane Group Flow (vph)     | 493   | 340   | 19    | 85    | 257   | 318   | 47    | 703   | 0    | 470   | 307   | 516   |
| Turn Type                 | pm+pt | NA    | pm+ov | pm+pt | NA    | pm+ov | pm+pt | NA    |      | pm+pt | NA    | pm+ov |
| Protected Phases          | 5     | 2     | 3     | 1     | 6     | 7     | 3     | 8     |      | 7     | 4     | 5     |
| Permitted Phases          | 2     | 10    | 2     | 6     | 10    | 6     | 8     |       |      | 4     |       | 4     |
| Detector Phase            | 5     | 2     | 3     | 1     | 6     | 7     | 3     | 8     |      | 7     | 4     | 5     |
| Switch Phase              |       |       |       |       |       |       |       |       |      |       |       |       |
| Minimum Initial (s)       | 5.0   | 9.0   | 3.0   | 3.0   | 10.0  | 3.0   | 3.0   | 10.0  |      | 3.0   | 10.0  | 5.0   |
| Minimum Split (s)         | 10.0  | 15.0  | 8.0   | 8.0   | 15.0  | 8.0   | 8.0   | 15.0  |      | 8.0   | 15.0  | 10.0  |
| Total Split (s)           | 35.0  | 65.0  | 8.0   | 25.0  | 55.0  | 35.0  | 8.0   | 45.0  |      | 35.0  | 72.0  | 35.0  |
| Total Split (%)           | 18.4% | 34.2% | 4.2%  | 13.2% | 28.9% | 18.4% | 4.2%  | 23.7% |      | 18.4% | 37.9% | 18.4% |
| Maximum Green (s)         | 30.0  | 60.0  | 3.0   | 20.0  | 50.0  | 30.0  | 3.0   | 40.0  |      | 30.0  | 67.0  | 30.0  |
| 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)          | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |      | 1.0   | 1.0   | 1.0   |
| 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)       | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |      | 5.0   | 5.0   | 5.0   |
| Lead/Lag                  | Lead  | Lag   | Lag   | Lead  | Lag   | Lag   | Lag   | Lead  |      | Lag   | Lead  | Lead  |
| Lead-Lag Optimize?        | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |      | Yes   | Yes   | Yes   |
| Vehicle Extension (s)     | 3.0   | 3.0   | 1.0   | 1.0   | 3.0   | 3.0   | 1.0   | 2.0   |      | 3.0   | 3.0   | 3.0   |
| Recall Mode               | None  | None  | Max   | None  | None  | Max   | Max   | Max   |      | Max   | None  | None  |
| Walk Time (s)             |       | 7.0   |       |       | 7.0   |       |       | 7.0   |      |       | 7.0   |       |
| Flash Dont Walk (s)       |       | 24.0  |       |       | 24.0  |       |       | 24.0  |      |       | 24.0  |       |
| Pedestrian Calls (#/hr)   |       | 0     |       |       | 0     |       |       | 0     |      |       | 0     |       |
| Act Effct Green (s)       | 56.5  | 48.8  | 81.9  | 29.7  | 27.0  | 51.5  | 73.0  | 40.1  |      | 61.5  | 31.4  | 61.5  |
| Actuated g/C Ratio        | 0.38  | 0.33  | 0.55  | 0.20  | 0.18  | 0.34  | 0.49  | 0.27  |      | 0.41  | 0.21  | 0.41  |
| v/c Ratio                 | 1.24  | 0.60  | 0.03  | 0.34  | 0.81  | 0.71  | 0.09  | 0.78  |      | 1.24  | 0.90  | 0.64  |
| Control Delay             | 167.9 | 43.8  | 0.1   | 38.6  | 67.8  | 35.7  | 24.9  | 57.3  |      | 172.1 | 85.6  | 7.3   |

|                         |      |
|-------------------------|------|
| Lane Group              | Ø10  |
| Lane Configurations     |      |
| Traffic Volume (vph)    |      |
| Future Volume (vph)     |      |
| Ideal Flow (vphpl)      |      |
| Lane Width (ft)         |      |
| Grade (%)               |      |
| Storage Length (ft)     |      |
| Storage Lanes           |      |
| Taper Length (ft)       |      |
| Lane Util. Factor       |      |
| Frt                     |      |
| Flt Protected           |      |
| Satd. Flow (prot)       |      |
| Flt Permitted           |      |
| Satd. Flow (perm)       |      |
| Right Turn on Red       |      |
| Satd. Flow (RTOR)       |      |
| Link Speed (mph)        |      |
| Link Distance (ft)      |      |
| Travel Time (s)         |      |
| Peak Hour Factor        |      |
| Heavy Vehicles (%)      |      |
| Shared Lane Traffic (%) |      |
| Lane Group Flow (vph)   |      |
| Turn Type               |      |
| Protected Phases        | 10   |
| Permitted Phases        |      |
| Detector Phase          |      |
| Switch Phase            |      |
| Minimum Initial (s)     | 15.0 |
| Minimum Split (s)       | 20.0 |
| Total Split (s)         | 20.0 |
| Total Split (%)         | 11%  |
| Maximum Green (s)       | 15.0 |
| Yellow Time (s)         | 4.0  |
| All-Red Time (s)        | 1.0  |
| Lost Time Adjust (s)    |      |
| Total Lost Time (s)     |      |
| Lead/Lag                |      |
| Lead-Lag Optimize?      |      |
| Vehicle Extension (s)   | 3.0  |
| Recall Mode             | None |
| Walk Time (s)           |      |
| Flash Dont Walk (s)     |      |
| Pedestrian Calls (#/hr) |      |
| Act Effct Green (s)     |      |
| Actuated g/C Ratio      |      |
| v/c Ratio               |      |
| Control Delay           |      |



| Lane Group              | EBL   | EBT   | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR | SBL   | SBT  | SBR  |
|-------------------------|-------|-------|------|------|------|------|------|------|-----|-------|------|------|
| 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             | 167.9 | 43.8  | 0.1  | 38.6 | 67.8 | 35.7 | 24.9 | 57.3 |     | 172.1 | 85.6 | 7.3  |
| LOS                     | F     | D     | A    | D    | E    | D    | C    | E    |     | F     | F    | A    |
| Approach Delay          |       | 114.6 |      |      | 48.6 |      |      | 55.3 |     |       | 85.8 |      |
| Approach LOS            |       | F     |      |      | D    |      |      | E    |     |       | F    |      |
| Queue Length 50th (ft)  | ~510  | 270   | 0    | 49   | 238  | 129  | 22   | 322  |     | ~510  | 293  | 34   |
| Queue Length 95th (ft)  | #868  | 319   | 0    | 105  | 234  | 230  | 54   | 452  |     | #793  | 409  | 99   |
| Internal Link Dist (ft) |       | 1060  |      |      | 835  |      |      | 337  |     |       | 508  |      |
| Turn Bay Length (ft)    | 330   |       | 145  | 175  |      | 170  | 140  |      |     | 100   |      |      |
| Base Capacity (vph)     | 396   | 760   | 685  | 395  | 658  | 447  | 501  | 906  |     | 380   | 732  | 809  |
| Starvation Cap Reductn  | 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    |
| Storage Cap Reductn     | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    |     | 0     | 0    | 0    |
| Reduced v/c Ratio       | 1.24  | 0.45  | 0.03 | 0.22 | 0.39 | 0.71 | 0.09 | 0.78 |     | 1.24  | 0.42 | 0.64 |

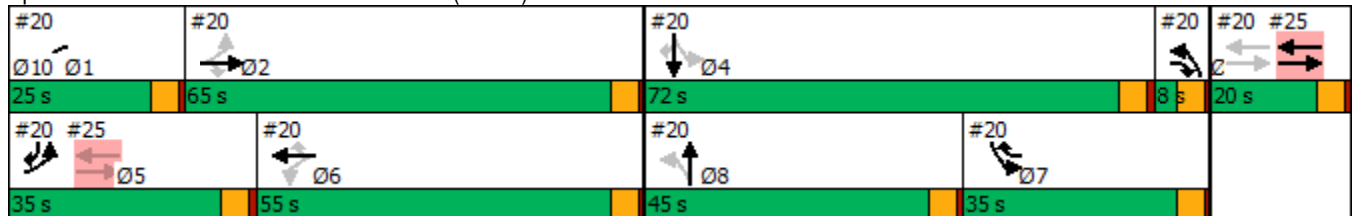
Intersection Summary

Area Type: Other  
 Cycle Length: 190  
 Actuated Cycle Length: 149.3  
 Natural Cycle: 150  
 Control Type: Semi Act-Uncoord  
 Maximum v/c Ratio: 1.24  
 Intersection Signal Delay: 79.4  
 Intersection Capacity Utilization 101.8%  
 Analysis Period (min) 15  
 Intersection LOS: E  
 ICU Level of Service G

~ 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.

Splits and Phases: 20: North Airmont Road (CR 89) & Route 59



|                         |     |
|-------------------------|-----|
| Lane Group              | Ø10 |
| Queue Delay             |     |
| Total Delay             |     |
| LOS                     |     |
| Approach Delay          |     |
| Approach LOS            |     |
| Queue Length 50th (ft)  |     |
| Queue Length 95th (ft)  |     |
| Internal Link Dist (ft) |     |
| Turn Bay Length (ft)    |     |
| Base Capacity (vph)     |     |
| Starvation Cap Reductn  |     |
| Spillback Cap Reductn   |     |
| Storage Cap Reductn     |     |
| Reduced v/c Ratio       |     |
| Intersection Summary    |     |

HCM 6th Edition methodology does not support clustered intersections.

|                         |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Lane Group              | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL  | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations     |   |  |  |   |   |   |  |  |  |  |  |  |
| Traffic Volume (vph)    | 351   | 6   | 440   | 0   | 0   | 0   | 0  | 586   | 722   | 402   | 895   | 0   |
| Future Volume (vph)     | 351   | 6   | 440   | 0   | 0   | 0   | 0  | 586   | 722   | 402   | 895   | 0   |
| Ideal Flow (vphpl)      | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900   | 1900  | 1900  | 1900  | 1900  | 1900  |
| Lane Width (ft)         | 12  | 12  | 12  | 12  | 12  | 12  | 11   | 11  | 14  | 12  | 12  | 12  |
| Grade (%)               |   | 5%  |   |   | 0%  |   |  | 3%  |   |   |   | -5%   |
| Storage Length (ft)     | 120   |   | 0   | 0   |   | 0   | 0  |   | 80  | 150   |   | 0   |
| Storage Lanes           | 1   |   | 1   | 0   |   | 0   | 0  |   | 1   | 2   |   | 0   |
| Taper Length (ft)       | 125   |   |   | 25  |   |   | 25   |   |   | 80  |   |   |
| Lane Util. Factor       | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00   | 0.95  | 1.00  | 0.97  | 0.95  | 1.00  |
| Frt                     |   |   | 0.850   |   |   |   |  |   | 0.850   |   |   |   |
| Flt Protected           |   | 0.953   |   |   |   |   |  |   |   | 0.950   |   |   |
| Satd. Flow (prot)       | 0   | 1562  | 1357  | 0   | 0   | 0   | 0  | 3042  | 1586  | 3519  | 3426  | 0   |
| Flt Permitted           |   | 0.953   |   |   |   |   |  |   |   | 0.950   |   |   |
| Satd. Flow (perm)       | 0   | 1562  | 1357  | 0   | 0   | 0   | 0  | 3042  | 1586  | 3519  | 3426  | 0   |
| Right Turn on Red       |   |   | Yes   |   |   | Yes   |  |   | Yes   |   |   | Yes   |
| Satd. Flow (RTOR)       |   |   | 102   |   |   |   |  |   | 599   |   |   |   |
| Link Speed (mph)        |   | 30  |   |   | 30  |   |  | 30  |   |   |   | 30  |
| Link Distance (ft)      |   | 946   |   |   | 400   |   |  | 480   |   |   |   | 504   |
| Travel Time (s)         |   | 21.5  |   |   | 9.1   |   |  | 10.9  |   |   |   | 11.5  |
| Peak Hour Factor        | 0.99  | 0.99  | 0.99  | 0.99  | 0.99  | 0.99  | 0.99   | 0.99  | 0.99  | 0.99  | 0.99  | 0.99  |
| Heavy Vehicles (%)      | 13%   | 13%   | 16%   | 0%  | 0%  | 0%  | 0%   | 13%   | 7%  | 2%  | 8%  | 0%  |
| Shared Lane Traffic (%) |   |   |   |   |   |   |  |   |   |   |   |   |
| Lane Group Flow (vph)   | 0   | 361   | 444   | 0   | 0   | 0   | 0  | 592   | 729   | 406   | 904   | 0   |
| Turn Type               | Perm  | NA  | Perm  |   |   |   |  | NA  | Perm  | Prot  | NA  |   |
| Protected Phases        |   | 4   |   |   |   |   |  | 2   |   | 1   | 6   |   |
| Permitted Phases        | 4   |   | 4   |   |   |   |  |   | 2   |   |   |   |
| Detector Phase          | 4   | 4   | 4   |   |   |   |  | 2   | 2   | 1   | 6   |   |
| Switch Phase            |   |   |   |   |   |   |  |   |   |   |   |   |
| Minimum Initial (s)     | 10.0  | 10.0  | 10.0  |   |   |   |  | 10.0  | 10.0  | 10.0  | 10.0  |   |
| Minimum Split (s)       | 15.0  | 15.0  | 15.0  |   |   |   |  | 15.0  | 15.0  | 15.0  | 15.0  |   |
| Total Split (s)         | 36.0  | 36.0  | 36.0  |   |   |   |  | 21.0  | 21.0  | 18.0  | 39.0  |   |
| Total Split (%)         | 48.0%   | 48.0%   | 48.0%   |   |   |   |  | 28.0%   | 28.0%   | 24.0%   | 52.0%   |   |
| Maximum Green (s)       | 31.0  | 31.0  | 31.0  |   |   |   |  | 16.0  | 16.0  | 13.0  | 34.0  |   |
| Yellow Time (s)         | 3.0   | 3.0   | 3.0   |   |   |   |  | 3.0   | 3.0   | 3.0   | 3.0   |   |
| All-Red Time (s)        | 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   |   |
| Total Lost Time (s)     |   | 5.0   | 5.0   |   |   |   |  | 5.0   | 5.0   | 5.0   | 5.0   |   |
| Lead/Lag                |   |   |   |   |   |   |  | Lag   | Lag   | Lead  |   |   |
| Lead-Lag Optimize?      |   |   |   |   |   |   |  | Yes   | Yes   | Yes   |   |   |
| Vehicle Extension (s)   | 2.0   | 2.0   | 2.0   |   |   |   |  | 2.0   | 2.0   | 2.0   | 2.0   |   |
| Recall Mode             | None  | None  | None  |   |   |   |  | C-Max   | C-Max   | None  | C-Max   |   |
| Act Effct Green (s)     |   | 24.5  | 24.5  |   |   |   |  | 23.4  | 23.4  | 12.1  | 40.5  |   |
| Actuated g/C Ratio      |   | 0.33  | 0.33  |   |   |   |  | 0.31  | 0.31  | 0.16  | 0.54  |   |
| v/c Ratio               |   | 0.71  | 0.87  |   |   |   |  | 0.62  | 0.80  | 0.71  | 0.49  |   |
| Control Delay           |   | 29.2  | 35.3  |   |   |   |  | 23.1  | 16.7  | 33.9  | 9.6   |   |
| Queue Delay             |   | 0.0   | 0.0   |   |   |   |  | 0.0   | 0.0   | 0.0   | 0.0   |   |
| Total Delay             |   | 29.2  | 35.3  |   |   |   |  | 23.1  | 16.7  | 33.9  | 9.6   |   |
| LOS                     |   | C   | D   |   |   |   |  | C   | B   | C   | A   |   |























| Lane Group              | EBL | EBT  | EBR  | WBL | WBT | WBR | NBL | NBT  | NBR  | SBL  | SBT | SBR  |
|-------------------------|-----|------|------|-----|-----|-----|-----|------|------|------|-----|------|
| Approach Delay          |     | 32.6 |      |     |     |     |     | 19.6 |      |      |     | 17.2 |
| Approach LOS            |     | C    |      |     |     |     |     | B    |      |      |     | B    |
| Queue Length 50th (ft)  |     | 140  | 145  |     |     |     |     | 130  | 142  | 79   |     | 65   |
| Queue Length 95th (ft)  |     | 206  | 241  |     |     |     |     | #229 | #257 | m112 |     | m181 |
| Internal Link Dist (ft) |     | 866  |      |     | 320 |     |     | 400  |      |      |     | 424  |
| Turn Bay Length (ft)    |     |      |      |     |     |     |     |      | 80   | 150  |     |      |
| Base Capacity (vph)     |     | 645  | 620  |     |     |     |     | 948  | 906  | 609  |     | 1850 |
| Starvation Cap Reductn  |     | 0    | 0    |     |     |     |     | 0    | 0    | 0    |     | 0    |
| Spillback Cap Reductn   |     | 0    | 0    |     |     |     |     | 0    | 0    | 0    |     | 0    |
| Storage Cap Reductn     |     | 0    | 0    |     |     |     |     | 0    | 0    | 0    |     | 0    |
| Reduced v/c Ratio       |     | 0.56 | 0.72 |     |     |     |     | 0.62 | 0.80 | 0.67 |     | 0.49 |

Intersection Summary

Area Type: Other  
 Cycle Length: 75  
 Actuated Cycle Length: 75  
 Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow, Master Intersection  
 Natural Cycle: 60  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.87  
 Intersection Signal Delay: 21.7  
 Intersection LOS: C  
 Intersection Capacity Utilization 88.4%  
 ICU Level of Service E  
 Analysis Period (min) 15  
 # 95th percentile volume exceeds capacity, queue may be longer.  
 Queue shown is maximum after two cycles.  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 30: North Airmont Road (CR 89) & I-87 SB/I-287 EB Off-Ramp



|                              |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Movement                     | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL  | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations          |   |  |  |   |   |   |  |  |  |  |  |   |
| Traffic Volume (veh/h)       | 351   | 6   | 440   | 0   | 0   | 0   | 0  | 586   | 722   | 402   | 895   | 0   |
| Future Volume (veh/h)        | 351   | 6   | 440   | 0   | 0   | 0   | 0  | 586   | 722   | 402   | 895   | 0   |
| Initial Q (Qb), veh          | 0   | 0   | 0   |   |   |   | 0  | 0   | 0   | 0   | 0   | 0   |
| Ped-Bike Adj(A_pbT)          | 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  |
| Work Zone On Approach        |   | No  |   |   |   |   |  | No  |   |   | No  |   |
| Adj Sat Flow, veh/h/ln       | 1560  | 1560  | 1516  |   |   |   | 0  | 1654  | 1813  | 2067  | 1977  | 0   |
| Adj Flow Rate, veh/h         | 355   | 6   | 444   |   |   |   | 0  | 592   | 729   | 406   | 904   | 0   |
| Peak Hour Factor             | 0.99  | 0.99  | 0.99  |   |   |   | 0.99   | 0.99  | 0.99  | 0.99  | 0.99  | 0.99  |
| Percent Heavy Veh, %         | 13  | 13  | 16  |   |   |   | 0  | 13  | 7   | 2   | 8   | 0   |
| Cap, veh/h                   | 543   | 9   | 477   |   |   |   | 0  | 917   | 448   | 522   | 1859  | 0   |
| Arrive On Green              | 0.37  | 0.37  | 0.37  |   |   |   | 0.00   | 0.29  | 0.29  | 0.05  | 0.16  | 0.00  |
| Sat Flow, veh/h              | 1462  | 25  | 1284  |   |   |   | 0  | 3226  | 1536  | 3818  | 3854  | 0   |
| Grp Volume(v), veh/h         | 361   | 0   | 444   |   |   |   | 0  | 592   | 729   | 406   | 904   | 0   |
| Grp Sat Flow(s),veh/h/ln     | 1487  | 0   | 1284  |   |   |   | 0  | 1572  | 1536  | 1909  | 1878  | 0   |
| Q Serve(g_s), s              | 15.1  | 0.0   | 24.9  |   |   |   | 0.0  | 12.3  | 21.9  | 7.9   | 16.4  | 0.0   |
| Cycle Q Clear(g_c), s        | 15.1  | 0.0   | 24.9  |   |   |   | 0.0  | 12.3  | 21.9  | 7.9   | 16.4  | 0.0   |
| Prop In Lane                 | 0.98  |   | 1.00  |   |   |   | 0.00   |   | 1.00  | 1.00  |   | 0.00  |
| Lane Grp Cap(c), veh/h       | 553   | 0   | 477   |   |   |   | 0  | 917   | 448   | 522   | 1859  | 0   |
| V/C Ratio(X)                 | 0.65  | 0.00  | 0.93  |   |   |   | 0.00   | 0.65  | 1.63  | 0.78  | 0.49  | 0.00  |
| Avail Cap(c_a), veh/h        | 615   | 0   | 531   |   |   |   | 0  | 917   | 448   | 662   | 1859  | 0   |
| HCM Platoon Ratio            | 1.00  | 1.00  | 1.00  |   |   |   | 1.00   | 1.00  | 1.00  | 0.33  | 0.33  | 1.00  |
| Upstream Filter(l)           | 1.00  | 0.00  | 1.00  |   |   |   | 0.00   | 1.00  | 1.00  | 0.55  | 0.55  | 0.00  |
| Uniform Delay (d), s/veh     | 19.6  | 0.0   | 22.6  |   |   |   | 0.0  | 23.2  | 26.6  | 34.7  | 22.7  | 0.0   |
| Incr Delay (d2), s/veh       | 1.5   | 0.0   | 21.0  |   |   |   | 0.0  | 3.5   | 292.3   | 1.9   | 0.5   | 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   |
| %ile BackOfQ(95%),veh/ln     | 8.8   | 0.0   | 14.8  |   |   |   | 0.0  | 8.4   | 68.9  | 6.4   | 11.7  | 0.0   |
| Unsig. Movement Delay, s/veh |   |   |   |   |   |   |  |   |   |   |   |   |
| LnGrp Delay(d),s/veh         | 21.0  | 0.0   | 43.6  |   |   |   | 0.0  | 26.7  | 318.9   | 36.6  | 23.2  | 0.0   |
| LnGrp LOS                    | C   | A   | D   |   |   |   | A  | C   | F   | D   | C   | A   |
| Approach Vol, veh/h          |   | 805   |   |   |   |   |  | 1321  |   |   | 1310  |   |
| Approach Delay, s/veh        |   | 33.5  |   |   |   |   |  | 187.9   |   |   | 27.3  |   |
| Approach LOS                 |   | C   |   |   |   |   |  | F   |   |   | C   |   |
| Timer - Assigned Phs         | 1   | 2   | 4   | 6   |   |   |  |   |   |   |   |   |
| Phs Duration (G+Y+Rc), s     | 15.3  | 26.9  | 32.9  | 42.1  |   |   |  |   |   |   |   |   |
| Change Period (Y+Rc), s      | 5.0   | 5.0   | 5.0   | 5.0   |   |   |  |   |   |   |   |   |
| Max Green Setting (Gmax), s  | 13.0  | 16.0  | 31.0  | 34.0  |   |   |  |   |   |   |   |   |
| Max Q Clear Time (g_c+I1), s | 9.9   | 0.0   | 26.9  | 0.0   |   |   |  |   |   |   |   |   |
| Green Ext Time (p_c), s      | 0.4   | 0.0   | 1.0   | 0.0   |   |   |  |   |   |   |   |   |
| <b>Intersection Summary</b>  |   |   |   |   |   |   |  |   |   |   |   |   |
| HCM 6th Ctrl Delay           |   |   | 90.5  |   |   |   |  |   |   |   |   |   |
| HCM 6th LOS                  |   |   | F   |   |   |   |  |   |   |   |   |   |

| Lane Group                | EBL  | EBT  | EBR  | WBL   | WBT   | WBR   | NBL   | NBT   | NBR  | SBL  | SBT   | SBR   |
|---------------------------|------|------|------|-------|-------|-------|-------|-------|------|------|-------|-------|
| Lane Configurations       |      |      |      |       |       |       |       |       |      |      |       |       |
| Traffic Volume (vph)      | 0    | 0    | 0    | 651   | 1     | 321   | 287   | 650   | 0    | 0    | 646   | 293   |
| Future Volume (vph)       | 0    | 0    | 0    | 651   | 1     | 321   | 287   | 650   | 0    | 0    | 646   | 293   |
| Ideal Flow (vphpl)        | 1900 | 1900 | 1900 | 1900  | 1900  | 1900  | 1900  | 1900  | 1900 | 1900 | 1900  | 1900  |
| Lane Width (ft)           | 12   | 12   | 12   | 12    | 12    | 12    | 11    | 10    | 10   | 12   | 12    | 12    |
| Grade (%)                 |      | 0%   |      |       | 0%    |       |       | 9%    |      |      | -7%   |       |
| Storage Length (ft)       | 0    |      | 0    | 520   |       | 350   | 105   |       | 0    | 0    |       | 140   |
| Storage Lanes             | 0    |      | 0    | 1     |       | 0     | 1     |       | 0    | 0    |       | 1     |
| Taper Length (ft)         | 145  |      |      | 145   |       |       | 100   |       |      | 25   |       |       |
| Lane Util. Factor         | 1.00 | 1.00 | 1.00 | 0.95  | 0.95  | 1.00  | 1.00  | 0.95  | 1.00 | 1.00 | 0.95  | 1.00  |
| Ped Bike Factor           |      |      |      |       |       |       | 1.00  |       |      |      |       | 0.98  |
| Fr <sub>t</sub>           |      |      |      |       |       | 0.850 |       |       |      |      |       | 0.850 |
| Fl <sub>t</sub> Protected |      |      |      | 0.950 | 0.952 |       | 0.950 |       |      |      |       |       |
| Satd. Flow (prot)         | 0    | 0    | 0    | 1559  | 1562  | 1553  | 1355  | 2979  | 0    | 0    | 3628  | 1534  |
| Fl <sub>t</sub> Permitted |      |      |      | 0.950 | 0.952 |       | 0.143 |       |      |      |       |       |
| Satd. Flow (perm)         | 0    | 0    | 0    | 1559  | 1562  | 1553  | 204   | 2979  | 0    | 0    | 3628  | 1500  |
| Right Turn on Red         |      |      | Yes  |       |       | Yes   |       |       | Yes  |      |       | Yes   |
| Satd. Flow (RTOR)         |      |      |      |       |       | 113   |       |       |      |      |       | 401   |
| Link Speed (mph)          |      | 30   |      |       | 30    |       |       | 30    |      |      |       | 30    |
| Link Distance (ft)        |      | 580  |      |       | 846   |       |       | 504   |      |      |       | 781   |
| Travel Time (s)           |      | 13.2 |      |       | 19.2  |       |       | 11.5  |      |      |       | 17.8  |
| Confl. Peds. (#/hr)       |      |      |      |       |       |       | 1     |       |      |      |       | 1     |
| Peak Hour Factor          | 0.73 | 0.73 | 0.73 | 0.73  | 0.73  | 0.73  | 0.73  | 0.73  | 0.73 | 0.73 | 0.73  | 0.73  |
| Heavy Vehicles (%)        | 0%   | 0%   | 0%   | 10%   | 0%    | 4%    | 23%   | 8%    | 0%   | 0%   | 3%    | 9%    |
| Shared Lane Traffic (%)   |      |      |      | 50%   |       |       |       |       |      |      |       |       |
| Lane Group Flow (vph)     | 0    | 0    | 0    | 446   | 447   | 440   | 393   | 890   | 0    | 0    | 885   | 401   |
| Turn Type                 |      |      |      | Perm  | NA    | Perm  | pm+pt | NA    |      |      | NA    | Perm  |
| Protected Phases          |      |      |      |       | 8     |       | 5     | 2     |      |      |       | 6     |
| Permitted Phases          |      |      |      | 8     |       | 8     | 2     |       |      |      |       | 6     |
| Detector Phase            |      |      |      | 8     | 8     | 8     | 5     | 2     |      |      |       | 6     |
| Switch Phase              |      |      |      |       |       |       |       |       |      |      |       |       |
| Minimum Initial (s)       |      |      |      | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  |      |      | 10.0  | 10.0  |
| Minimum Split (s)         |      |      |      | 15.0  | 15.0  | 15.0  | 15.0  | 15.0  |      |      | 15.0  | 15.0  |
| Total Split (s)           |      |      |      | 31.0  | 31.0  | 31.0  | 15.0  | 44.0  |      |      | 29.0  | 29.0  |
| Total Split (%)           |      |      |      | 41.3% | 41.3% | 41.3% | 20.0% | 58.7% |      |      | 38.7% | 38.7% |
| Maximum Green (s)         |      |      |      | 26.0  | 26.0  | 26.0  | 10.0  | 39.0  |      |      | 24.0  | 24.0  |
| Yellow Time (s)           |      |      |      | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |      |      | 3.0   | 3.0   |
| All-Red Time (s)          |      |      |      | 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)       |      |      |      | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |      |      | 5.0   | 5.0   |
| Lead/Lag                  |      |      |      |       |       |       | Lead  |       |      |      | Lag   | Lag   |
| Lead-Lag Optimize?        |      |      |      |       |       |       | Yes   |       |      |      | Yes   | Yes   |
| Vehicle Extension (s)     |      |      |      | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |      |      | 2.0   | 2.0   |
| Recall Mode               |      |      |      | None  | None  | None  | None  | C-Max |      |      | C-Max | C-Max |
| Act Effct Green (s)       |      |      |      | 24.1  | 24.1  | 24.1  | 40.9  | 40.9  |      |      | 25.9  | 25.9  |
| Actuated g/C Ratio        |      |      |      | 0.32  | 0.32  | 0.32  | 0.55  | 0.55  |      |      | 0.35  | 0.35  |
| v/c Ratio                 |      |      |      | 0.89  | 0.89  | 0.77  | 1.49  | 0.55  |      |      | 0.71  | 0.51  |
| Control Delay             |      |      |      | 46.1  | 46.1  | 26.4  | 257.3 | 11.7  |      |      | 27.1  | 9.0   |
| Queue Delay               |      |      |      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |      |      | 0.0   | 0.0   |



| Lane Group              | EBL | EBT | EBR | WBL  | WBT  | WBR  | NBL   | NBT  | NBR | SBL | SBT  | SBR  |
|-------------------------|-----|-----|-----|------|------|------|-------|------|-----|-----|------|------|
| Total Delay             |     |     |     | 46.1 | 46.1 | 26.4 | 257.3 | 11.7 |     |     | 27.1 | 9.0  |
| LOS                     |     |     |     | D    | D    | C    | F     | B    |     |     | C    | A    |
| Approach Delay          |     |     |     |      | 39.6 |      |       | 86.9 |     |     | 21.4 |      |
| Approach LOS            |     |     |     |      | D    |      |       | F    |     |     | C    |      |
| Queue Length 50th (ft)  |     |     |     | 196  | 196  | 130  | ~229  | 150  |     |     | 154  | 9    |
| Queue Length 95th (ft)  |     |     |     | 232  | 232  | 161  | #290  | 152  |     |     | 224  | 68   |
| Internal Link Dist (ft) |     | 500 |     |      | 766  |      |       | 424  |     |     | 701  |      |
| Turn Bay Length (ft)    |     |     |     | 520  |      | 350  | 105   |      |     |     |      | 140  |
| Base Capacity (vph)     |     |     |     | 540  | 541  | 612  | 264   | 1625 |     |     | 1253 | 780  |
| 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       |     |     |     | 0.83 | 0.83 | 0.72 | 1.49  | 0.55 |     |     | 0.71 | 0.51 |



















Intersection Summary

Area Type: Other  
 Cycle Length: 75  
 Actuated Cycle Length: 75  
 Offset: 46 (61%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow  
 Natural Cycle: 70  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.49  
 Intersection Signal Delay: 49.2  
 Intersection LOS: D  
 Intersection Capacity Utilization 88.4%  
 ICU Level of Service E  
 Analysis Period (min) 15  
 ~ 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.

Splits and Phases: 40: North Airmont Road (CR 89) & I-87 NB/I-287 WB Off-Ramp



HCM 6th Edition methodology does not support turning movements with shared & exclusive lanes.

|                         |  |  |  |  |  |  |   |  |  |  |  |  |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Lane Group              | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations     |   |  |   |   |  |   |  |  |   |  |  |   |
| Traffic Volume (vph)    | 66  | 0   | 32  | 17  | 0   | 20  | 36  | 1325  | 10  | 22  | 1219  | 5   |
| Future Volume (vph)     | 66  | 0   | 32  | 17  | 0   | 20  | 36  | 1325  | 10  | 22  | 1219  | 5   |
| Ideal Flow (vphpl)      | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Lane Width (ft)         | 14  | 14  | 14  | 14  | 14  | 14  | 10  | 11  | 11  | 10  | 11  | 11  |
| Grade (%)               |   | 0%  |   |   | 0%  |   |   | 0%  |   |   |   | -4%   |
| Storage Length (ft)     | 0   |   | 0   | 0   |   | 0   | 130   |   | 0   | 155   |   | 0   |
| Storage Lanes           | 0   |   | 0   | 0   |   | 0   | 1   |   | 0   | 1   |   | 0   |
| Taper Length (ft)       | 25  |   |   | 25  |   |   | 25  |   |   | 25  |   |   |
| Lane Util. Factor       | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 0.95  | 0.95  | 1.00  | 0.95  | 0.95  |
| Frt                     |   | 0.955   |   |   | 0.928   |   |   | 0.999   |   |   | 0.999   |   |
| Flt Protected           |   | 0.968   |   |   | 0.977   |   | 0.950   |   |   | 0.950   |   |   |
| Satd. Flow (prot)       | 0   | 1725  | 0   | 0   | 1676  | 0   | 1574  | 3290  | 0   | 1718  | 3231  | 0   |
| Flt Permitted           |   | 0.774   |   |   | 0.880   |   | 0.135   |   |   | 0.126   |   |   |
| Satd. Flow (perm)       | 0   | 1379  | 0   | 0   | 1509  | 0   | 224   | 3290  | 0   | 228   | 3231  | 0   |
| Right Turn on Red       |   |   | Yes   |   |   | Yes   |   |   | Yes   |   |   | Yes   |
| Satd. Flow (RTOR)       |   | 73  |   |   | 73  |   |   | 1   |   |   | 1   |   |
| Link Speed (mph)        |   | 25  |   |   | 25  |   |   | 30  |   |   | 30  |   |
| Link Distance (ft)      |   | 182   |   |   | 462   |   |   | 185   |   |   | 144   |   |
| Travel Time (s)         |   | 5.0   |   |   | 12.6  |   |   | 4.2   |   |   | 3.3   |   |
| Peak Hour Factor        | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  | 0.90  |
| Heavy Vehicles (%)      | 2%  | 0%  | 22%   | 0%  | 0%  | 18%   | 7%  | 6%  | 0%  | 0%  | 10%   | 25%   |
| Shared Lane Traffic (%) |   |   |   |   |   |   |   |   |   |   |   |   |
| Lane Group Flow (vph)   | 0   | 109   | 0   | 0   | 41  | 0   | 40  | 1483  | 0   | 24  | 1360  | 0   |
| Turn Type               | Perm  | NA  |   | Perm  | NA  |   | pm+pt   | NA  |   | pm+pt   | NA  |   |
| Protected Phases        |   | 4   |   |   | 8   |   | 5   | 2   |   | 1   | 6   |   |
| Permitted Phases        | 4   |   |   | 8   |   |   | 2   |   |   | 6   |   |   |
| Detector Phase          | 4   | 4   |   | 8   | 8   |   | 5   | 2   |   | 1   | 6   |   |
| Switch Phase            |   |   |   |   |   |   |   |   |   |   |   |   |
| Minimum Initial (s)     | 10.0  | 10.0  |   | 10.0  | 10.0  |   | 10.0  | 10.0  |   | 10.0  | 10.0  |   |
| Minimum Split (s)       | 14.0  | 14.0  |   | 14.0  | 14.0  |   | 14.0  | 14.0  |   | 14.0  | 14.0  |   |
| Total Split (s)         | 24.0  | 24.0  |   | 24.0  | 24.0  |   | 15.0  | 36.0  |   | 15.0  | 36.0  |   |
| Total Split (%)         | 32.0%   | 32.0%   |   | 32.0%   | 32.0%   |   | 20.0%   | 48.0%   |   | 20.0%   | 48.0%   |   |
| Maximum Green (s)       | 20.0  | 20.0  |   | 20.0  | 20.0  |   | 11.0  | 32.0  |   | 11.0  | 32.0  |   |
| Yellow Time (s)         | 3.0   | 3.0   |   | 3.0   | 3.0   |   | 3.5   | 3.0   |   | 3.5   | 3.0   |   |
| All-Red Time (s)        | 1.0   | 1.0   |   | 1.0   | 1.0   |   | 0.5   | 1.0   |   | 0.5   | 1.0   |   |
| Lost Time Adjust (s)    |   | 0.0   |   |   | 0.0   |   | 0.0   | 0.0   |   | 0.0   | 0.0   |   |
| Total Lost Time (s)     |   | 4.0   |   |   | 4.0   |   | 4.0   | 4.0   |   | 4.0   | 4.0   |   |
| Lead/Lag                |   |   |   |   |   |   | Lead  | Lag   |   | Lead  | Lag   |   |
| Lead-Lag Optimize?      |   |   |   |   |   |   | Yes   | Yes   |   | Yes   | Yes   |   |
| Vehicle Extension (s)   | 6.0   | 6.0   |   | 6.0   | 6.0   |   | 6.0   | 6.0   |   | 6.0   | 6.0   |   |
| Recall Mode             | None  | None  |   | None  | None  |   | None  | C-Max   |   | None  | C-Max   |   |
| Walk Time (s)           | 5.0   | 5.0   |   | 5.0   | 5.0   |   |   | 5.0   |   |   | 5.0   |   |
| Flash Dont Walk (s)     | 11.0  | 11.0  |   | 11.0  | 11.0  |   |   | 11.0  |   |   | 11.0  |   |
| Pedestrian Calls (#/hr) | 0   | 0   |   | 0   | 0   |   |   | 0   |   |   | 0   |   |
| Act Effct Green (s)     |   | 11.5  |   |   | 11.5  |   | 56.7  | 53.5  |   | 55.9  | 50.7  |   |
| Actuated g/C Ratio      |   | 0.15  |   |   | 0.15  |   | 0.76  | 0.71  |   | 0.75  | 0.68  |   |
| v/c Ratio               |   | 0.40  |   |   | 0.14  |   | 0.11  | 0.63  |   | 0.07  | 0.62  |   |
| Control Delay           |   | 16.3  |   |   | 3.8   |   | 3.9   | 11.6  |   | 3.1   | 8.9   |   |



| Lane Group              | EBL | EBT  | EBR | WBL | WBT  | WBR | NBL  | NBT  | NBR | SBL  | SBT  | SBR |
|-------------------------|-----|------|-----|-----|------|-----|------|------|-----|------|------|-----|
| Queue Delay             |     | 0.0  |     |     | 0.0  |     | 0.0  | 0.0  |     | 0.0  | 0.0  |     |
| Total Delay             |     | 16.3 |     |     | 3.8  |     | 3.9  | 11.6 |     | 3.1  | 8.9  |     |
| LOS                     |     | B    |     |     | A    |     | A    | B    |     | A    | A    |     |
| Approach Delay          |     | 16.3 |     |     | 3.8  |     |      | 11.4 |     |      | 8.8  |     |
| Approach LOS            |     | B    |     |     | A    |     |      | B    |     |      | A    |     |
| Queue Length 50th (ft)  |     | 15   |     |     | 0    |     | 4    | 121  |     | 2    | 174  |     |
| Queue Length 95th (ft)  |     | 55   |     |     | 11   |     | 13   | #467 |     | m6   | 230  |     |
| Internal Link Dist (ft) |     | 102  |     |     | 382  |     |      | 105  |     |      | 64   |     |
| Turn Bay Length (ft)    |     |      |     |     |      |     | 130  |      |     | 155  |      |     |
| Base Capacity (vph)     |     | 421  |     |     | 455  |     | 368  | 2346 |     | 390  | 2183 |     |
| Starvation Cap Reductn  |     | 0    |     |     | 0    |     | 0    | 0    |     | 0    | 0    |     |
| Spillback Cap Reductn   |     | 0    |     |     | 0    |     | 0    | 0    |     | 0    | 0    |     |
| Storage Cap Reductn     |     | 0    |     |     | 0    |     | 0    | 0    |     | 0    | 0    |     |
| Reduced v/c Ratio       |     | 0.26 |     |     | 0.09 |     | 0.11 | 0.63 |     | 0.06 | 0.62 |     |

Intersection Summary

Area Type: Other  
 Cycle Length: 75  
 Actuated Cycle Length: 75  
 Offset: 72 (96%), Referenced to phase 2:NBTL and 6:SBTL, Start of Yellow  
 Natural Cycle: 60  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.63  
 Intersection Signal Delay: 10.3  
 Intersection Capacity Utilization 52.1%  
 Analysis Period (min) 15  
 Intersection LOS: B  
 ICU Level of Service A

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

m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 50: North Airmont Road (CR 89) & North DeBaun Avenue



| Movement                     | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations          |      |      |      |      |      |      |      |      |      |      |      |      |
| Traffic Volume (veh/h)       | 66   | 0    | 32   | 17   | 0    | 20   | 36   | 1325 | 10   | 22   | 1219 | 5    |
| Future Volume (veh/h)        | 66   | 0    | 32   | 17   | 0    | 20   | 36   | 1325 | 10   | 22   | 1219 | 5    |
| Initial Q (Qb), veh          | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 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   |      |
| Adj Sat Flow, veh/h/ln       | 1945 | 1976 | 1637 | 1976 | 1976 | 1699 | 1796 | 1811 | 1900 | 2057 | 1907 | 1682 |
| Adj Flow Rate, veh/h         | 73   | 0    | 36   | 19   | 0    | 22   | 40   | 1472 | 11   | 24   | 1354 | 6    |
| Peak Hour Factor             | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Percent Heavy Veh, %         | 2    | 0    | 22   | 0    | 0    | 18   | 7    | 6    | 0    | 0    | 10   | 25   |
| Cap, veh/h                   | 199  | 16   | 67   | 147  | 24   | 117  | 389  | 2311 | 17   | 360  | 2357 | 10   |
| Arrive On Green              | 0.13 | 0.00 | 0.13 | 0.13 | 0.00 | 0.13 | 0.08 | 0.66 | 0.66 | 0.05 | 0.64 | 0.64 |
| Sat Flow, veh/h              | 934  | 128  | 524  | 601  | 192  | 918  | 1711 | 3501 | 26   | 1959 | 3700 | 16   |
| Grp Volume(v), veh/h         | 109  | 0    | 0    | 41   | 0    | 0    | 40   | 723  | 760  | 24   | 663  | 697  |
| Grp Sat Flow(s),veh/h/ln     | 1586 | 0    | 0    | 1712 | 0    | 0    | 1711 | 1721 | 1806 | 1959 | 1812 | 1904 |
| Q Serve(g_s), s              | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.5  | 18.5 | 18.5 | 0.3  | 15.7 | 15.7 |
| Cycle Q Clear(g_c), s        | 4.6  | 0.0  | 0.0  | 1.5  | 0.0  | 0.0  | 0.5  | 18.5 | 18.5 | 0.3  | 15.7 | 15.7 |
| Prop In Lane                 | 0.67 |      | 0.33 | 0.46 |      | 0.54 | 1.00 |      | 0.01 | 1.00 |      | 0.01 |
| Lane Grp Cap(c), veh/h       | 282  | 0    | 0    | 288  | 0    | 0    | 389  | 1136 | 1192 | 360  | 1154 | 1213 |
| V/C Ratio(X)                 | 0.39 | 0.00 | 0.00 | 0.14 | 0.00 | 0.00 | 0.10 | 0.64 | 0.64 | 0.07 | 0.57 | 0.57 |
| Avail Cap(c_a), veh/h        | 495  | 0    | 0    | 506  | 0    | 0    | 511  | 1136 | 1192 | 545  | 1154 | 1213 |
| 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(I)           | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh     | 30.5 | 0.0  | 0.0  | 29.2 | 0.0  | 0.0  | 5.0  | 7.5  | 7.5  | 5.7  | 7.8  | 7.8  |
| Incr Delay (d2), s/veh       | 3.1  | 0.0  | 0.0  | 0.8  | 0.0  | 0.0  | 0.4  | 2.7  | 2.6  | 0.3  | 2.1  | 2.0  |
| 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(95%),veh/ln     | 3.7  | 0.0  | 0.0  | 1.3  | 0.0  | 0.0  | 0.3  | 10.1 | 10.5 | 0.2  | 9.4  | 9.8  |
| Unsig. Movement Delay, s/veh |      |      |      |      |      |      |      |      |      |      |      |      |
| LnGrp Delay(d),s/veh         | 33.6 | 0.0  | 0.0  | 30.0 | 0.0  | 0.0  | 5.4  | 10.2 | 10.1 | 5.9  | 9.9  | 9.8  |
| LnGrp LOS                    | C    | A    | A    | C    | A    | A    | A    | B    | B    | A    | A    | A    |
| Approach Vol, veh/h          |      | 109  |      |      | 41   |      |      | 1523 |      |      | 1384 |      |
| Approach Delay, s/veh        |      | 33.6 |      |      | 30.0 |      |      | 10.0 |      |      | 9.8  |      |
| Approach LOS                 |      | C    |      |      | C    |      |      | B    |      |      | A    |      |
| Timer - Assigned Phs         | 1    | 2    |      | 4    | 5    | 6    |      | 8    |      |      |      |      |
| Phs Duration (G+Y+Rc), s     | 7.9  | 53.5 |      | 13.6 | 9.7  | 51.8 |      | 13.6 |      |      |      |      |
| Change Period (Y+Rc), s      | 4.0  | 4.0  |      | 4.0  | 4.0  | 4.0  |      | 4.0  |      |      |      |      |
| Max Green Setting (Gmax), s  | 11.0 | 32.0 |      | 20.0 | 11.0 | 32.0 |      | 20.0 |      |      |      |      |
| Max Q Clear Time (g_c+I1), s | 2.3  | 20.5 |      | 6.6  | 2.5  | 17.7 |      | 3.5  |      |      |      |      |
| Green Ext Time (p_c), s      | 0.0  | 10.5 |      | 0.9  | 0.1  | 12.3 |      | 0.3  |      |      |      |      |
| <b>Intersection Summary</b>  |      |      |      |      |      |      |      |      |      |      |      |      |
| HCM 6th Ctrl Delay           |      |      |      | 11.0 |      |      |      |      |      |      |      |      |
| HCM 6th LOS                  |      |      |      | B    |      |      |      |      |      |      |      |      |



| Intersection             |      |      |      |      |      |      |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh         | 2    |      |      |      |      |      |
| Movement                 | EBT  | EBR  | WBL  | WBT  | NBL  | NBR  |
| Lane Configurations      | ↔    |      | ↔    | ↔    | ↔    |      |
| Traffic Vol, veh/h       | 691  | 19   | 76   | 728  | 7    | 144  |
| Future Vol, veh/h        | 691  | 19   | 76   | 728  | 7    | 144  |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Free | Free | Free | Free | Stop | Stop |
| RT Channelized           | -    | None | -    | None | -    | None |
| Storage Length           | -    | -    | 0    | -    | 0    | -    |
| Veh in Median Storage, # | 0    | -    | -    | 0    | 0    | -    |
| Grade, %                 | -4   | -    | -    | 2    | -4   | -    |
| Peak Hour Factor         | 96   | 96   | 96   | 96   | 96   | 96   |
| Heavy Vehicles, %        | 9    | 6    | 11   | 10   | 17   | 3    |
| Mvmt Flow                | 720  | 20   | 79   | 758  | 7    | 150  |

| Major/Minor          | Major1 | Major2 | Minor1 |   |             |
|----------------------|--------|--------|--------|---|-------------|
| Conflicting Flow All | 0      | 0      | 740    | 0 | 1646 730    |
| Stage 1              | -      | -      | -      | - | 730 -       |
| Stage 2              | -      | -      | -      | - | 916 -       |
| Critical Hdwy        | -      | -      | 4.21   | - | 5.77 5.83   |
| Critical Hdwy Stg 1  | -      | -      | -      | - | 4.77 -      |
| Critical Hdwy Stg 2  | -      | -      | -      | - | 4.77 -      |
| Follow-up Hdwy       | -      | -      | 2.299  | - | 3.653 3.327 |
| Pot Cap-1 Maneuver   | -      | -      | 827    | - | 145 456     |
| Stage 1              | -      | -      | -      | - | 530 -       |
| Stage 2              | -      | -      | -      | - | 450 -       |
| Platoon blocked, %   | -      | -      | -      | - | -           |
| Mov Cap-1 Maneuver   | -      | -      | 827    | - | 131 456     |
| Mov Cap-2 Maneuver   | -      | -      | -      | - | 268 -       |
| Stage 1              | -      | -      | -      | - | 530 -       |
| Stage 2              | -      | -      | -      | - | 407 -       |

| Approach             | EB | WB  | NB   |
|----------------------|----|-----|------|
| HCM Control Delay, s | 0  | 0.9 | 17.6 |
| HCM LOS              |    |     | C    |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL   | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h)      | 442   | -   | -   | 827   | -   |
| HCM Lane V/C Ratio    | 0.356 | -   | -   | 0.096 | -   |
| HCM Control Delay (s) | 17.6  | -   | -   | 9.8   | -   |
| HCM Lane LOS          | C     | -   | -   | A     | -   |
| HCM 95th %tile Q(veh) | 1.6   | -   | -   | 0.3   | -   |

| Intersection             |      |      |      |      |      |      |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh         | 0.6  |      |      |      |      |      |
| Movement                 | EBL  | EBR  | NBL  | NBT  | SBT  | SBR  |
| Lane Configurations      | T    |      |      | T    |      |      |
| Traffic Vol, veh/h       | 0    | 20   | 20   | 435  | 491  | 0    |
| Future Vol, veh/h        | 0    | 20   | 20   | 435  | 491  | 0    |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Stop | Stop | Free | Free | Free | Free |
| RT Channelized           | -    | None | -    | None | -    | None |
| Storage Length           | 0    | -    | -    | -    | -    | -    |
| Veh in Median Storage, # | 0    | -    | -    | 0    | 0    | -    |
| Grade, %                 | -1   | -    | -    | -6   | 0    | -    |
| Peak Hour Factor         | 74   | 74   | 74   | 74   | 74   | 74   |
| Heavy Vehicles, %        | 0    | 100  | 100  | 7    | 7    | 0    |
| Mvmt Flow                | 0    | 27   | 27   | 588  | 664  | 0    |

| Major/Minor          | Minor2 | Major1 | Major2 |   |   |   |
|----------------------|--------|--------|--------|---|---|---|
| Conflicting Flow All | 1306   | 664    | 664    | 0 | - | 0 |
| Stage 1              | 664    | -      | -      | - | - | - |
| Stage 2              | 642    | -      | -      | - | - | - |
| Critical Hdwy        | 6.2    | 7.1    | 5.1    | - | - | - |
| Critical Hdwy Stg 1  | 5.2    | -      | -      | - | - | - |
| Critical Hdwy Stg 2  | 5.2    | -      | -      | - | - | - |
| Follow-up Hdwy       | 3.5    | 4.2    | 3.1    | - | - | - |
| Pot Cap-1 Maneuver   | 192    | 332    | 595    | - | - | - |
| Stage 1              | 535    | -      | -      | - | - | - |
| Stage 2              | 547    | -      | -      | - | - | - |
| Platoon blocked, %   |        |        |        | - | - | - |
| Mov Cap-1 Maneuver   | 179    | 332    | 595    | - | - | - |
| Mov Cap-2 Maneuver   | 179    | -      | -      | - | - | - |
| Stage 1              | 499    | -      | -      | - | - | - |
| Stage 2              | 547    | -      | -      | - | - | - |

| Approach             | EB   | NB  | SB |
|----------------------|------|-----|----|
| HCM Control Delay, s | 16.8 | 0.5 | 0  |
| HCM LOS              | C    |     |    |

| Minor Lane/Major Mvmt | NBL   | NBT | EBLn1 | SBT | SBR |
|-----------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h)      | 595   | -   | 332   | -   | -   |
| HCM Lane V/C Ratio    | 0.045 | -   | 0.081 | -   | -   |
| HCM Control Delay (s) | 11.3  | 0   | 16.8  | -   | -   |
| HCM Lane LOS          | B     | A   | C     | -   | -   |
| HCM 95th %tile Q(veh) | 0.1   | -   | 0.3   | -   | -   |

| Lane Group              | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR  | SBL   | SBT   | SBR   |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| Lane Configurations     |       |       |       |       |       |       |       |       |      |       |       |       |
| Traffic Volume (vph)    | 212   | 583   | 106   | 85    | 672   | 122   | 171   | 171   | 105  | 197   | 188   | 187   |
| Future Volume (vph)     | 212   | 583   | 106   | 85    | 672   | 122   | 171   | 171   | 105  | 197   | 188   | 187   |
| Ideal Flow (vphpl)      | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900 | 1900  | 1900  | 1900  |
| Lane Width (ft)         | 11    | 11    | 11    | 12    | 12    | 12    | 15    | 12    | 12   | 13    | 13    | 13    |
| Grade (%)               |       | 0%    |       |       | 0%    |       |       | -3%   |      |       | -4%   |       |
| Storage Length (ft)     | 75    |       | 310   | 180   |       | 560   | 150   |       | 0    | 145   |       | 0     |
| Storage Lanes           | 1     |       | 1     | 1     |       | 1     | 1     |       | 0    | 1     |       | 0     |
| Taper Length (ft)       | 115   |       |       | 105   |       |       | 65    |       |      | 40    |       |       |
| Lane Util. Factor       | 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 Factor         |       |       |       |       |       |       |       | 0.99  |      | 1.00  |       |       |
| Frt                     |       |       | 0.850 |       |       | 0.850 |       | 0.943 |      |       |       | 0.925 |
| Flt Protected           | 0.950 |       |       | 0.950 |       |       | 0.950 |       |      | 0.950 |       |       |
| Satd. Flow (prot)       | 1646  | 1766  | 1516  | 1752  | 1810  | 1357  | 1919  | 1724  | 0    | 1684  | 1756  | 0     |
| Flt Permitted           | 0.103 |       |       | 0.176 |       |       | 0.253 |       |      | 0.247 |       |       |
| Satd. Flow (perm)       | 178   | 1766  | 1516  | 325   | 1810  | 1357  | 511   | 1724  | 0    | 437   | 1756  | 0     |
| Right Turn on Red       |       |       | Yes   |       |       | Yes   |       |       | Yes  |       |       | Yes   |
| Satd. Flow (RTOR)       |       |       | 165   |       |       | 165   |       | 26    |      |       |       | 42    |
| Link Speed (mph)        |       | 30    |       |       | 30    |       |       | 30    |      |       |       | 30    |
| Link Distance (ft)      |       | 581   |       |       | 1449  |       |       | 423   |      |       |       | 450   |
| Travel Time (s)         |       | 13.2  |       |       | 32.9  |       |       | 9.6   |      |       |       | 10.2  |
| Confl. Peds. (#/hr)     |       |       |       |       |       |       |       |       | 1    | 1     |       |       |
| Peak Hour Factor        | 0.97  | 0.97  | 0.97  | 0.97  | 0.97  | 0.97  | 0.97  | 0.97  | 0.97 | 0.97  | 0.97  | 0.97  |
| Heavy Vehicles (%)      | 6%    | 4%    | 3%    | 3%    | 5%    | 19%   | 5%    | 5%    | 4%   | 13%   | 6%    | 5%    |
| Shared Lane Traffic (%) |       |       |       |       |       |       |       |       |      |       |       |       |
| Lane Group Flow (vph)   | 219   | 601   | 109   | 88    | 693   | 126   | 176   | 284   | 0    | 203   | 387   | 0     |
| Turn Type               | pm+pt | NA    | pm+ov | pm+pt | NA    | pm+ov | pm+pt | NA    |      | pm+pt | NA    |       |
| Protected Phases        | 5     | 2     | 3     | 1     | 6     | 7     | 3     | 8     |      | 7     | 4     |       |
| Permitted Phases        | 2     | 9     | 2     | 6     | 9     | 6     | 8     |       |      | 4     |       |       |
| Detector Phase          | 5     | 2     | 3     | 1     | 6     | 7     | 3     | 8     |      | 7     | 4     |       |
| Switch Phase            |       |       |       |       |       |       |       |       |      |       |       |       |
| Minimum Initial (s)     | 3.0   | 10.0  | 3.0   | 3.0   | 10.0  | 3.0   | 3.0   | 5.0   |      | 3.0   | 5.0   |       |
| Minimum Split (s)       | 9.0   | 16.0  | 9.0   | 9.0   | 16.0  | 9.0   | 9.0   | 11.0  |      | 9.0   | 11.0  |       |
| Total Split (s)         | 15.0  | 40.0  | 15.0  | 15.0  | 40.0  | 15.0  | 15.0  | 20.0  |      | 15.0  | 20.0  |       |
| Total Split (%)         | 15.2% | 40.4% | 15.2% | 15.2% | 40.4% | 15.2% | 15.2% | 20.2% |      | 15.2% | 20.2% |       |
| Maximum Green (s)       | 9.0   | 34.0  | 9.0   | 9.0   | 34.0  | 9.0   | 9.0   | 14.0  |      | 9.0   | 14.0  |       |
| 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   | Lead  | Lead  | Lag   | Lead  | Lead  | Lag   |      | Lead  | Lag   |       |
| Lead-Lag Optimize?      | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |      | Yes   | Yes   |       |
| Vehicle Extension (s)   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |      | 2.0   | 2.0   |       |
| Recall Mode             | None  | Min   | None  | None  | Min   | None  | None  | None  |      | None  | None  |       |
| Walk Time (s)           |       | 7.0   |       |       | 7.0   |       |       | 7.0   |      |       | 7.0   |       |
| Flash Dont Walk (s)     |       | 14.0  |       |       | 18.0  |       |       | 17.0  |      |       | 16.0  |       |
| Pedestrian Calls (#/hr) |       | 0     |       |       | 0     |       |       | 1     |      |       | 1     |       |
| Act Effct Green (s)     | 45.9  | 39.2  | 53.4  | 41.1  | 34.7  | 49.3  | 24.5  | 15.8  |      | 25.2  | 16.1  |       |
| Actuated g/C Ratio      | 0.49  | 0.42  | 0.57  | 0.44  | 0.37  | 0.53  | 0.26  | 0.17  |      | 0.27  | 0.17  |       |

|                           |      |
|---------------------------|------|
| Lane Group                | Ø9   |
| Lane Configurations       |      |
| Traffic Volume (vph)      |      |
| Future Volume (vph)       |      |
| Ideal Flow (vphpl)        |      |
| Lane Width (ft)           |      |
| Grade (%)                 |      |
| Storage Length (ft)       |      |
| Storage Lanes             |      |
| Taper Length (ft)         |      |
| Lane Util. Factor         |      |
| Ped Bike Factor           |      |
| Fr <sub>t</sub>           |      |
| Fl <sub>t</sub> Protected |      |
| Satd. Flow (prot)         |      |
| Fl <sub>t</sub> Permitted |      |
| Satd. Flow (perm)         |      |
| Right Turn on Red         |      |
| Satd. Flow (RTOR)         |      |
| Link Speed (mph)          |      |
| Link Distance (ft)        |      |
| Travel Time (s)           |      |
| Confl. Peds. (#/hr)       |      |
| Peak Hour Factor          |      |
| Heavy Vehicles (%)        |      |
| Shared Lane Traffic (%)   |      |
| Lane Group Flow (vph)     |      |
| Turn Type                 |      |
| Protected Phases          | 9    |
| Permitted Phases          |      |
| Detector Phase            |      |
| Switch Phase              |      |
| Minimum Initial (s)       | 3.0  |
| Minimum Split (s)         | 9.0  |
| Total Split (s)           | 9.0  |
| Total Split (%)           | 9%   |
| Maximum Green (s)         | 3.0  |
| Yellow Time (s)           | 4.0  |
| All-Red Time (s)          | 2.0  |
| Lost Time Adjust (s)      |      |
| Total Lost Time (s)       |      |
| Lead/Lag                  |      |
| Lead-Lag Optimize?        |      |
| Vehicle Extension (s)     | 2.0  |
| Recall Mode               | None |
| Walk Time (s)             |      |
| Flash Dont Walk (s)       |      |
| Pedestrian Calls (#/hr)   |      |
| Act Effct Green (s)       |      |
| Actuated g/C Ratio        |      |



| Lane Group              | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR | SBL  | SBT   | SBR |
|-------------------------|------|------|------|------|------|------|------|------|-----|------|-------|-----|
| v/c Ratio               | 0.96 | 0.81 | 0.12 | 0.36 | 1.04 | 0.16 | 0.67 | 0.91 |     | 0.86 | 1.15  |     |
| Control Delay           | 75.5 | 36.7 | 0.9  | 17.3 | 74.9 | 1.6  | 37.7 | 68.6 |     | 58.8 | 129.8 |     |
| Queue Delay             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     | 0.0  | 0.0   |     |
| Total Delay             | 75.5 | 36.7 | 0.9  | 17.3 | 74.9 | 1.6  | 37.7 | 68.6 |     | 58.8 | 129.8 |     |
| LOS                     | E    | D    | A    | B    | E    | A    | D    | E    |     | E    | F     |     |
| Approach Delay          |      | 41.6 |      |      | 59.1 |      |      | 56.8 |     |      | 105.4 |     |
| Approach LOS            |      | D    |      |      | E    |      |      | E    |     |      | F     |     |
| Queue Length 50th (ft)  | 80   | 302  | 0    | 23   | ~399 | 0    | 74   | 149  |     | 88   | ~258  |     |
| Queue Length 95th (ft)  | #293 | #599 | 8    | 66   | #789 | 17   | #140 | 265  |     | #199 | #425  |     |
| Internal Link Dist (ft) |      | 501  |      |      | 1369 |      |      | 343  |     |      | 370   |     |
| Turn Bay Length (ft)    | 75   |      | 310  | 180  |      | 560  | 150  |      |     | 145  |       |     |
| Base Capacity (vph)     | 228  | 738  | 939  | 287  | 669  | 790  | 271  | 312  |     | 237  | 336   |     |
| 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 | 0.81 | 0.12 | 0.31 | 1.04 | 0.16 | 0.65 | 0.91 |     | 0.86 | 1.15  |     |

Intersection Summary

Area Type: Other  
 Cycle Length: 99  
 Actuated Cycle Length: 93.8  
 Natural Cycle: 110  
 Control Type: Actuated-Uncoordinated  
 Maximum v/c Ratio: 1.15  
 Intersection Signal Delay: 62.6  
 Intersection LOS: E  
 Intersection Capacity Utilization 97.9%  
 ICU Level of Service F  
 Analysis Period (min) 15  
 ~ 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.

Splits and Phases: 10: Campbell Avenue/Hemion Road (CR 93) & Route 59

|                       |                   |                       |                   |                      |
|-----------------------|-------------------|-----------------------|-------------------|----------------------|
| #10<br>Ø9f Ø1<br>15 s | #10<br>Ø2<br>40 s | #10 #15<br>Ø3<br>15 s | #10<br>Ø4<br>20 s | #10 #15<br>Ø5<br>9 s |
| #10<br>Ø5<br>15 s     | #10<br>Ø6<br>40 s | #10 #15<br>Ø7<br>15 s | #10<br>Ø8<br>20 s |                      |

|                         |    |
|-------------------------|----|
| Lane Group              | Ø9 |
| v/c Ratio               |    |
| Control Delay           |    |
| Queue Delay             |    |
| Total Delay             |    |
| LOS                     |    |
| Approach Delay          |    |
| Approach LOS            |    |
| Queue Length 50th (ft)  |    |
| Queue Length 95th (ft)  |    |
| Internal Link Dist (ft) |    |
| Turn Bay Length (ft)    |    |
| Base Capacity (vph)     |    |
| Starvation Cap Reductn  |    |
| Spillback Cap Reductn   |    |
| Storage Cap Reductn     |    |
| Reduced v/c Ratio       |    |
| Intersection Summary    |    |

HCM 6th Edition methodology does not support clustered intersections.

| Lane Group                | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR  | SBL   | SBT   | SBR   |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| Lane Configurations       |       |       |       |       |       |       |       |       |      |       |       |       |
| Traffic Volume (vph)      | 496   | 414   | 70    | 133   | 362   | 432   | 58    | 448   | 154  | 417   | 507   | 607   |
| Future Volume (vph)       | 496   | 414   | 70    | 133   | 362   | 432   | 58    | 448   | 154  | 417   | 507   | 607   |
| Ideal Flow (vphpl)        | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900 | 1900  | 1900  | 1900  |
| Lane Width (ft)           | 13    | 12    | 11    | 13    | 12    | 9     | 11    | 11    | 11   | 12    | 10    | 10    |
| Grade (%)                 |       | 4%    |       |       | -2%   |       |       | -5%   |      |       | 0%    |       |
| Storage Length (ft)       | 330   |       | 145   | 175   |       | 170   | 140   |       | 140  | 100   |       | 0     |
| Storage Lanes             | 1     |       | 1     | 1     |       | 1     | 1     |       | 1    | 1     |       | 1     |
| Taper Length (ft)         | 65    |       |       | 130   |       |       | 200   |       |      | 30    |       |       |
| Lane Util. Factor         | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 0.95  | 0.95 | 1.00  | 1.00  | 1.00  |
| Ped Bike Factor           |       |       | 0.98  | 1.00  |       |       |       | 0.99  |      | 1.00  |       |       |
| Fr <sub>t</sub>           |       |       | 0.850 |       |       | 0.850 |       | 0.962 |      |       |       | 0.850 |
| Fl <sub>t</sub> Protected | 0.950 |       |       | 0.950 |       |       | 0.950 |       |      | 0.950 |       |       |
| Satd. Flow (prot)         | 1692  | 1808  | 1457  | 1829  | 1828  | 1398  | 1626  | 3279  | 0    | 1703  | 1739  | 1422  |
| Fl <sub>t</sub> Permitted | 0.108 |       |       | 0.364 |       |       | 0.100 |       |      | 0.211 |       |       |
| Satd. Flow (perm)         | 192   | 1808  | 1424  | 700   | 1828  | 1398  | 171   | 3279  | 0    | 378   | 1739  | 1422  |
| Right Turn on Red         |       |       | Yes   |       |       | No    |       |       | Yes  |       |       | Yes   |
| Satd. Flow (RTOR)         |       |       | 98    |       |       |       |       | 23    |      |       |       | 258   |
| Link Speed (mph)          |       | 30    |       |       | 30    |       |       | 30    |      |       | 30    |       |
| Link Distance (ft)        |       | 1140  |       |       | 915   |       |       | 417   |      |       | 588   |       |
| Travel Time (s)           |       | 25.9  |       |       | 20.8  |       |       | 9.5   |      |       | 13.4  |       |
| Confl. Peds. (#/hr)       |       |       | 1     | 1     |       |       |       |       | 2    | 2     |       |       |
| Peak Hour Factor          | 0.97  | 0.97  | 0.97  | 0.97  | 0.97  | 0.97  | 0.97  | 0.97  | 0.97 | 0.97  | 0.97  | 0.97  |
| Heavy Vehicles (%)        | 8%    | 3%    | 5%    | 3%    | 5%    | 5%    | 10%   | 4%    | 5%   | 6%    | 2%    | 6%    |
| Shared Lane Traffic (%)   |       |       |       |       |       |       |       |       |      |       |       |       |
| Lane Group Flow (vph)     | 511   | 427   | 72    | 137   | 373   | 445   | 60    | 621   | 0    | 430   | 523   | 626   |
| Turn Type                 | pm+pt | NA    | pm+ov | pm+pt | NA    | pm+ov | pm+pt | NA    |      | pm+pt | NA    | pm+ov |
| Protected Phases          | 5     | 2     | 3     | 1     | 6     | 7     | 3     | 8     |      | 7     | 4     | 5     |
| Permitted Phases          | 2     | 10    | 2     | 6     | 10    | 6     | 8     |       |      | 4     |       | 4     |
| Detector Phase            | 5     | 2     | 3     | 1     | 6     | 7     | 3     | 8     |      | 7     | 4     | 5     |
| Switch Phase              |       |       |       |       |       |       |       |       |      |       |       |       |
| Minimum Initial (s)       | 5.0   | 10.0  | 3.0   | 3.0   | 10.0  | 3.0   | 3.0   | 10.0  |      | 3.0   | 15.0  | 5.0   |
| Minimum Split (s)         | 10.0  | 15.0  | 8.0   | 8.0   | 15.0  | 8.0   | 8.0   | 15.0  |      | 8.0   | 20.0  | 10.0  |
| Total Split (s)           | 35.0  | 65.0  | 8.0   | 25.0  | 55.0  | 35.0  | 8.0   | 45.0  |      | 35.0  | 72.0  | 35.0  |
| Total Split (%)           | 18.4% | 34.2% | 4.2%  | 13.2% | 28.9% | 18.4% | 4.2%  | 23.7% |      | 18.4% | 37.9% | 18.4% |
| Maximum Green (s)         | 30.0  | 60.0  | 3.0   | 20.0  | 50.0  | 30.0  | 3.0   | 40.0  |      | 30.0  | 67.0  | 30.0  |
| 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)          | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |      | 1.0   | 1.0   | 1.0   |
| 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)       | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |      | 5.0   | 5.0   | 5.0   |
| Lead/Lag                  | Lead  | Lag   | Lag   | Lead  | Lag   | Lag   | Lag   | Lead  |      | Lag   | Lead  | Lead  |
| Lead-Lag Optimize?        | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |      | Yes   | Yes   | Yes   |
| Vehicle Extension (s)     | 3.0   | 3.0   | 1.0   | 1.0   | 3.0   | 3.0   | 1.0   | 2.0   |      | 3.0   | 3.0   | 3.0   |
| Recall Mode               | None  | None  | Max   | None  | None  | Max   | Max   | Max   |      | Max   | None  | None  |
| Walk Time (s)             |       | 7.0   |       |       | 7.0   |       |       | 7.0   |      |       | 7.0   |       |
| Flash Dont Walk (s)       |       | 24.0  |       |       | 24.0  |       |       | 24.0  |      |       | 24.0  |       |
| Pedestrian Calls (#/hr)   |       | 1     |       |       | 1     |       |       | 2     |      |       | 2     |       |
| Act Effct Green (s)       | 67.3  | 56.5  | 73.4  | 43.4  | 37.7  | 62.3  | 62.4  | 40.2  |      | 71.4  | 47.9  | 78.0  |
| Actuated g/C Ratio        | 0.42  | 0.35  | 0.46  | 0.27  | 0.24  | 0.39  | 0.39  | 0.25  |      | 0.45  | 0.30  | 0.49  |



|                         |      |
|-------------------------|------|
| Lane Group              | Ø10  |
| Lane Configurations     |      |
| Traffic Volume (vph)    |      |
| Future Volume (vph)     |      |
| Ideal Flow (vphpl)      |      |
| Lane Width (ft)         |      |
| Grade (%)               |      |
| Storage Length (ft)     |      |
| Storage Lanes           |      |
| Taper Length (ft)       |      |
| Lane Util. Factor       |      |
| Ped Bike Factor         |      |
| Fr <sub>t</sub>         |      |
| Flt Protected           |      |
| Satd. Flow (prot)       |      |
| Flt Permitted           |      |
| Satd. Flow (perm)       |      |
| Right Turn on Red       |      |
| Satd. Flow (RTOR)       |      |
| Link Speed (mph)        |      |
| Link Distance (ft)      |      |
| Travel Time (s)         |      |
| Confl. Peds. (#/hr)     |      |
| Peak Hour Factor        |      |
| Heavy Vehicles (%)      |      |
| Shared Lane Traffic (%) |      |
| Lane Group Flow (vph)   |      |
| Turn Type               |      |
| Protected Phases        | 10   |
| Permitted Phases        |      |
| Detector Phase          |      |
| Switch Phase            |      |
| Minimum Initial (s)     | 15.0 |
| Minimum Split (s)       | 20.0 |
| Total Split (s)         | 20.0 |
| Total Split (%)         | 11%  |
| Maximum Green (s)       | 15.0 |
| Yellow Time (s)         | 4.0  |
| All-Red Time (s)        | 1.0  |
| Lost Time Adjust (s)    |      |
| Total Lost Time (s)     |      |
| Lead/Lag                |      |
| Lead-Lag Optimize?      |      |
| Vehicle Extension (s)   | 3.0  |
| Recall Mode             | None |
| Walk Time (s)           |      |
| Flash Dont Walk (s)     |      |
| Pedestrian Calls (#/hr) |      |
| Act Effct Green (s)     |      |
| Actuated g/C Ratio      |      |

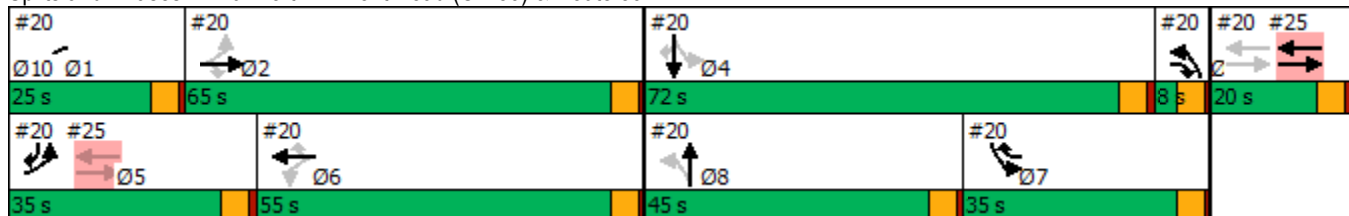


| Lane Group              | EBL   | EBT   | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR | SBL   | SBT  | SBR  |
|-------------------------|-------|-------|------|------|------|------|------|------|-----|-------|------|------|
| v/c Ratio               | 1.41  | 0.67  | 0.10 | 0.51 | 0.87 | 0.82 | 0.22 | 0.74 |     | 1.03  | 1.01 | 0.76 |
| Control Delay           | 237.3 | 46.6  | 1.8  | 39.5 | 72.3 | 37.4 | 46.9 | 60.5 |     | 105.4 | 96.1 | 15.7 |
| Queue Delay             | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     | 0.0   | 0.3  | 0.0  |
| Total Delay             | 237.3 | 46.6  | 1.8  | 39.5 | 72.3 | 37.4 | 46.9 | 60.5 |     | 105.4 | 96.4 | 15.7 |
| LOS                     | F     | D     | A    | D    | E    | D    | D    | E    |     | F     | F    | B    |
| Approach Delay          |       | 139.9 |      |      | 51.4 |      |      | 59.3 |     |       | 66.8 |      |
| Approach LOS            |       | F     |      |      | D    |      |      | E    |     |       | E    |      |
| Queue Length 50th (ft)  | ~636  | 367   | 0    | 81   | 371  | 200  | 33   | 298  |     | 331   | ~599 | 168  |
| Queue Length 95th (ft)  | #1016 | 404   | 12   | 156  | 342  | #376 | #116 | 428  |     | #682  | 698  | 250  |
| Internal Link Dist (ft) |       | 1060  |      |      | 835  |      |      | 337  |     |       | 508  |      |
| Turn Bay Length (ft)    | 330   |       | 145  | 175  |      | 170  | 140  |      |     | 100   |      |      |
| Base Capacity (vph)     | 362   | 743   | 710  | 370  | 637  | 543  | 270  | 840  |     | 417   | 731  | 825  |
| Starvation Cap Reductn  | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    |     | 0     | 22   | 0    |
| Spillback Cap Reductn   | 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    |
| Reduced v/c Ratio       | 1.41  | 0.57  | 0.10 | 0.37 | 0.59 | 0.82 | 0.22 | 0.74 |     | 1.03  | 0.74 | 0.76 |

Intersection Summary

Area Type: Other  
 Cycle Length: 190  
 Actuated Cycle Length: 160.1  
 Natural Cycle: 150  
 Control Type: Semi Act-Uncoord  
 Maximum v/c Ratio: 1.41  
 Intersection Signal Delay: 79.6      Intersection LOS: E  
 Intersection Capacity Utilization 112.1%      ICU Level of Service H  
 Analysis Period (min) 15  
 ~ 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.

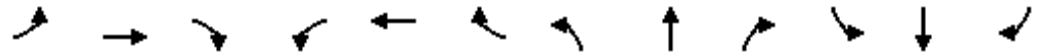
Splits and Phases: 20: North Airmont Road (CR 89) & Route 59



|                         |     |
|-------------------------|-----|
| Lane Group              | Ø10 |
| v/c Ratio               |     |
| Control Delay           |     |
| Queue Delay             |     |
| Total Delay             |     |
| LOS                     |     |
| Approach Delay          |     |
| Approach LOS            |     |
| Queue Length 50th (ft)  |     |
| Queue Length 95th (ft)  |     |
| Internal Link Dist (ft) |     |
| Turn Bay Length (ft)    |     |
| Base Capacity (vph)     |     |
| Starvation Cap Reductn  |     |
| Spillback Cap Reductn   |     |
| Storage Cap Reductn     |     |
| Reduced v/c Ratio       |     |
| Intersection Summary    |     |

HCM 6th Edition methodology does not support clustered intersections.

| Lane Group                | EBL   | EBT   | EBR   | WBL  | WBT  | WBR  | NBL  | NBT   | NBR   | SBL   | SBT   | SBR  |
|---------------------------|-------|-------|-------|------|------|------|------|-------|-------|-------|-------|------|
| Lane Configurations       |       |       |       |      |      |      |      |       |       |       |       |      |
| Traffic Volume (vph)      | 278   | 3     | 317   | 0    | 0    | 0    | 0    | 723   | 743   | 469   | 1233  | 0    |
| Future Volume (vph)       | 278   | 3     | 317   | 0    | 0    | 0    | 0    | 723   | 743   | 469   | 1233  | 0    |
| Ideal Flow (vphpl)        | 1900  | 1900  | 1900  | 1900 | 1900 | 1900 | 1900 | 1900  | 1900  | 1900  | 1900  | 1900 |
| Lane Width (ft)           | 12    | 12    | 12    | 12   | 12   | 12   | 11   | 11    | 14    | 12    | 12    | 12   |
| Grade (%)                 |       | 5%    |       |      | 0%   |      |      | 3%    |       |       |       | -5%  |
| Storage Length (ft)       | 120   |       | 0     | 0    |      | 0    | 0    |       | 80    | 150   |       | 0    |
| Storage Lanes             | 1     |       | 1     | 0    |      | 0    | 0    |       | 1     | 2     |       | 0    |
| Taper Length (ft)         | 125   |       |       | 25   |      |      | 25   |       |       | 80    |       |      |
| Lane Util. Factor         | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 0.95  | 1.00  | 0.97  | 0.95  | 1.00 |
| Ped Bike Factor           |       |       |       |      |      |      |      |       | 0.99  | 1.00  |       |      |
| Fr <sub>t</sub>           |       |       | 0.850 |      |      |      |      |       |       | 0.850 |       |      |
| Fl <sub>t</sub> Protected |       | 0.953 |       |      |      |      |      |       |       | 0.950 |       |      |
| Satd. Flow (prot)         | 0     | 1551  | 1472  | 0    | 0    | 0    | 0    | 3183  | 1586  | 3485  | 3491  | 0    |
| Fl <sub>t</sub> Permitted |       | 0.953 |       |      |      |      |      |       |       | 0.950 |       |      |
| Satd. Flow (perm)         | 0     | 1551  | 1472  | 0    | 0    | 0    | 0    | 3183  | 1564  | 3482  | 3491  | 0    |
| Right Turn on Red         |       |       | Yes   |      |      | Yes  |      |       | Yes   |       |       | Yes  |
| Satd. Flow (RTOR)         |       |       | 102   |      |      |      |      |       | 493   |       |       |      |
| Link Speed (mph)          |       | 30    |       |      | 30   |      |      | 30    |       |       |       | 30   |
| Link Distance (ft)        |       | 946   |       |      | 400  |      |      | 480   |       |       |       | 504  |
| Travel Time (s)           |       | 21.5  |       |      | 9.1  |      |      | 10.9  |       |       |       | 11.5 |
| Confl. Peds. (#/hr)       |       |       |       |      |      |      |      |       | 1     | 1     |       |      |
| Peak Hour Factor          | 0.99  | 0.99  | 0.99  | 0.99 | 0.99 | 0.99 | 0.99 | 0.99  | 0.99  | 0.99  | 0.99  | 0.99 |
| Heavy Vehicles (%)        | 14%   | 0%    | 7%    | 0%   | 0%   | 0%   | 0%   | 8%    | 7%    | 3%    | 6%    | 0%   |
| Shared Lane Traffic (%)   |       |       |       |      |      |      |      |       |       |       |       |      |
| Lane Group Flow (vph)     | 0     | 284   | 320   | 0    | 0    | 0    | 0    | 730   | 751   | 474   | 1245  | 0    |
| Turn Type                 | Perm  | NA    | Perm  |      |      |      |      | NA    | Perm  | Prot  | NA    |      |
| Protected Phases          |       | 4     |       |      |      |      |      | 2     |       | 1     | 6     |      |
| Permitted Phases          | 4     |       | 4     |      |      |      |      |       | 2     |       |       |      |
| Detector Phase            | 4     | 4     | 4     |      |      |      |      | 2     | 2     | 1     | 6     |      |
| Switch Phase              |       |       |       |      |      |      |      |       |       |       |       |      |
| Minimum Initial (s)       | 10.0  | 10.0  | 10.0  |      |      |      |      | 10.0  | 10.0  | 10.0  | 10.0  |      |
| Minimum Split (s)         | 15.0  | 15.0  | 15.0  |      |      |      |      | 15.0  | 15.0  | 15.0  | 15.0  |      |
| Total Split (s)           | 34.0  | 34.0  | 34.0  |      |      |      |      | 20.0  | 20.0  | 21.0  | 41.0  |      |
| Total Split (%)           | 45.3% | 45.3% | 45.3% |      |      |      |      | 26.7% | 26.7% | 28.0% | 54.7% |      |
| Maximum Green (s)         | 29.0  | 29.0  | 29.0  |      |      |      |      | 15.0  | 15.0  | 16.0  | 36.0  |      |
| Yellow Time (s)           | 3.0   | 3.0   | 3.0   |      |      |      |      | 3.0   | 3.0   | 3.0   | 3.0   |      |
| All-Red Time (s)          | 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   |      |
| Total Lost Time (s)       |       | 5.0   | 5.0   |      |      |      |      | 5.0   | 5.0   | 5.0   | 5.0   |      |
| Lead/Lag                  |       |       |       |      |      |      |      | Lag   | Lag   | Lead  |       |      |
| Lead-Lag Optimize?        |       |       |       |      |      |      |      | Yes   | Yes   | Yes   |       |      |
| Vehicle Extension (s)     | 2.0   | 2.0   | 2.0   |      |      |      |      | 2.0   | 2.0   | 2.0   | 2.0   |      |
| Recall Mode               | None  | None  | None  |      |      |      |      | C-Max | C-Max | None  | C-Max |      |
| Act Effct Green (s)       |       | 18.5  | 18.5  |      |      |      |      | 27.4  | 27.4  | 14.0  | 46.5  |      |
| Actuated g/C Ratio        |       | 0.25  | 0.25  |      |      |      |      | 0.37  | 0.37  | 0.19  | 0.62  |      |
| v/c Ratio                 |       | 0.74  | 0.73  |      |      |      |      | 0.63  | 0.85  | 0.73  | 0.58  |      |
| Control Delay             |       | 37.3  | 26.5  |      |      |      |      | 18.7  | 16.4  | 30.0  | 3.8   |      |
| Queue Delay               |       | 0.0   | 0.0   |      |      |      |      | 0.0   | 0.0   | 0.0   | 0.1   |      |

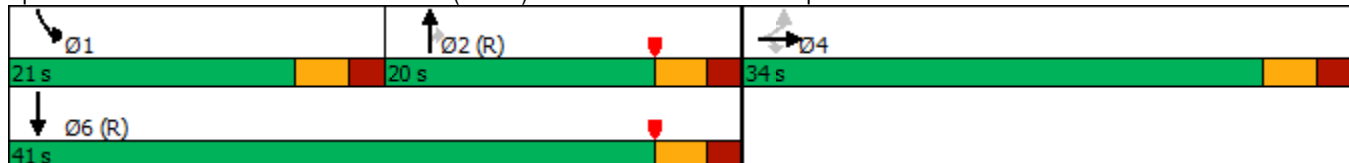





















| Lane Group              | EBL | EBT  | EBR  | WBL | WBT | WBR | NBL | NBT  | NBR  | SBL  | SBT  | SBR |
|-------------------------|-----|------|------|-----|-----|-----|-----|------|------|------|------|-----|
| Total Delay             |     | 37.3 | 26.5 |     |     |     |     | 18.7 | 16.4 | 30.0 | 3.9  |     |
| LOS                     |     | D    | C    |     |     |     |     | B    | B    | C    | A    |     |
| Approach Delay          |     | 31.6 |      |     |     |     |     | 17.5 |      |      | 11.1 |     |
| Approach LOS            |     | C    |      |     |     |     |     | B    |      |      | B    |     |
| Queue Length 50th (ft)  |     | 122  | 92   |     |     |     |     | 46   | 13   | 78   | 0    |     |
| Queue Length 95th (ft)  |     | 176  | 156  |     |     |     |     | #278 | #361 | m136 | m211 |     |
| Internal Link Dist (ft) |     | 866  |      |     | 320 |     |     | 400  |      |      |      | 424 |
| Turn Bay Length (ft)    |     |      |      |     |     |     |     |      | 80   | 150  |      |     |
| Base Capacity (vph)     |     | 599  | 631  |     |     |     |     | 1163 | 884  | 743  | 2162 |     |
| Starvation Cap Reductn  |     | 0    | 0    |     |     |     |     | 0    | 0    | 0    | 194  |     |
| Spillback Cap Reductn   |     | 0    | 0    |     |     |     |     | 0    | 0    | 0    | 0    |     |
| Storage Cap Reductn     |     | 0    | 0    |     |     |     |     | 0    | 0    | 0    | 0    |     |
| Reduced v/c Ratio       |     | 0.47 | 0.51 |     |     |     |     | 0.63 | 0.85 | 0.64 | 0.63 |     |

Intersection Summary

Area Type: Other  
 Cycle Length: 75  
 Actuated Cycle Length: 75  
 Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow, Master Intersection  
 Natural Cycle: 55  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.85  
 Intersection Signal Delay: 16.9  
 Intersection LOS: B  
 Intersection Capacity Utilization 118.6%  
 ICU Level of Service H  
 Analysis Period (min) 15  
 # 95th percentile volume exceeds capacity, queue may be longer.  
 Queue shown is maximum after two cycles.  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 30: North Airmont Road (CR 89) & I-87 SB/I-287 EB Off-Ramp



|                              |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Movement                     | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL  | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations          |   |  |  |   |   |   |  |  |  |  |  |  |
| Traffic Volume (veh/h)       | 278   | 3   | 317   | 0   | 0   | 0   | 0  | 723   | 743   | 469   | 1233  | 0   |
| Future Volume (veh/h)        | 278   | 3   | 317   | 0   | 0   | 0   | 0  | 723   | 743   | 469   | 1233  | 0   |
| Initial Q (Qb), veh          | 0   | 0   | 0   |   |   |   | 0  | 0   | 0   | 0   | 0   | 0   |
| Ped-Bike Adj(A_pbT)          | 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  |
| Work Zone On Approach        |   | No  |   |   |   |   |  | No  |   |   | No  |   |
| Adj Sat Flow, veh/h/ln       | 1545  | 1753  | 1649  |   |   |   | 0  | 1728  | 1813  | 2052  | 2007  | 0   |
| Adj Flow Rate, veh/h         | 281   | 3   | 320   |   |   |   | 0  | 730   | 751   | 474   | 1245  | 0   |
| Peak Hour Factor             | 0.99  | 0.99  | 0.99  |   |   |   | 0.99   | 0.99  | 0.99  | 0.99  | 0.99  | 0.99  |
| Percent Heavy Veh, %         | 14  | 0   | 7   |   |   |   | 0  | 8   | 7   | 3   | 6   | 0   |
| Cap, veh/h                   | 432   | 5   | 365   |   |   |   | 0  | 1258  | 588   | 590   | 2308  | 0   |
| Arrive On Green              | 0.26  | 0.26  | 0.26  |   |   |   | 0.00   | 0.38  | 0.38  | 0.16  | 0.61  | 0.00  |
| Sat Flow, veh/h              | 1652  | 18  | 1397  |   |   |   | 0  | 3370  | 1535  | 3791  | 3913  | 0   |
| Grp Volume(v), veh/h         | 284   | 0   | 320   |   |   |   | 0  | 730   | 751   | 474   | 1245  | 0   |
| Grp Sat Flow(s),veh/h/ln     | 1670  | 0   | 1397  |   |   |   | 0  | 1642  | 1535  | 1895  | 1906  | 0   |
| Q Serve(g_s), s              | 11.4  | 0.0   | 16.5  |   |   |   | 0.0  | 13.2  | 28.7  | 9.0   | 14.3  | 0.0   |
| Cycle Q Clear(g_c), s        | 11.4  | 0.0   | 16.5  |   |   |   | 0.0  | 13.2  | 28.7  | 9.0   | 14.3  | 0.0   |
| Prop In Lane                 | 0.99  |   | 1.00  |   |   |   | 0.00   |   | 1.00  | 1.00  |   | 0.00  |
| Lane Grp Cap(c), veh/h       | 436   | 0   | 365   |   |   |   | 0  | 1258  | 588   | 590   | 2308  | 0   |
| V/C Ratio(X)                 | 0.65  | 0.00  | 0.88  |   |   |   | 0.00   | 0.58  | 1.28  | 0.80  | 0.54  | 0.00  |
| Avail Cap(c_a), veh/h        | 646   | 0   | 540   |   |   |   | 0  | 1258  | 588   | 809   | 2308  | 0   |
| HCM Platoon Ratio            | 1.00  | 1.00  | 1.00  |   |   |   | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Upstream Filter(l)           | 1.00  | 0.00  | 1.00  |   |   |   | 0.00   | 1.00  | 1.00  | 0.38  | 0.38  | 0.00  |
| Uniform Delay (d), s/veh     | 24.7  | 0.0   | 26.5  |   |   |   | 0.0  | 18.4  | 23.1  | 30.5  | 8.7   | 0.0   |
| Incr Delay (d2), s/veh       | 0.6   | 0.0   | 7.7   |   |   |   | 0.0  | 2.0   | 137.5   | 1.1   | 0.3   | 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   |
| %ile BackOfQ(95%),veh/ln     | 7.8   | 0.0   | 10.0  |   |   |   | 0.0  | 8.7   | 47.9  | 6.1   | 7.3   | 0.0   |
| Unsig. Movement Delay, s/veh |   |   |   |   |   |   |  |   |   |   |   |   |
| LnGrp Delay(d),s/veh         | 25.3  | 0.0   | 34.2  |   |   |   | 0.0  | 20.3  | 160.6   | 31.7  | 9.0   | 0.0   |
| LnGrp LOS                    | C   | A   | C   |   |   |   | A  | C   | F   | C   | A   | A   |
| Approach Vol, veh/h          |   | 604   |   |   |   |   |  | 1481  |   |   | 1719  |   |
| Approach Delay, s/veh        |   | 30.0  |   |   |   |   |  | 91.4  |   |   | 15.3  |   |
| Approach LOS                 |   | C   |   |   |   |   |  | F   |   |   | B   |   |
| Timer - Assigned Phs         | 1   | 2   |   | 4   |   |   |  | 6   |   |   |   |   |
| Phs Duration (G+Y+Rc), s     | 16.7  | 33.7  |   | 24.6  |   |   |  | 50.4  |   |   |   |   |
| Change Period (Y+Rc), s      | 5.0   | 5.0   |   | 5.0   |   |   |  | 5.0   |   |   |   |   |
| Max Green Setting (Gmax), s  | 16.0  | 15.0  |   | 29.0  |   |   |  | 36.0  |   |   |   |   |
| Max Q Clear Time (g_c+I1), s | 11.0  | 0.0   |   | 18.5  |   |   |  | 0.0   |   |   |   |   |
| Green Ext Time (p_c), s      | 0.6   | 0.0   |   | 1.1   |   |   |  | 0.0   |   |   |   |   |
| <b>Intersection Summary</b>  |   |   |   |   |   |   |  |   |   |   |   |   |
| HCM 6th Ctrl Delay           |   |   | 47.3  |   |   |   |  |   |   |   |   |   |
| HCM 6th LOS                  |   |   | D   |   |   |   |  |   |   |   |   |   |

| Lane Group                | EBL  | EBT  | EBR  | WBL   | WBT   | WBR   | NBL   | NBT   | NBR  | SBL  | SBT   | SBR   |
|---------------------------|------|------|------|-------|-------|-------|-------|-------|------|------|-------|-------|
| Lane Configurations       |      |      |      |       |       |       |       |       |      |      |       |       |
| Traffic Volume (vph)      | 0    | 0    | 0    | 832   | 2     | 462   | 391   | 610   | 0    | 0    | 870   | 427   |
| Future Volume (vph)       | 0    | 0    | 0    | 832   | 2     | 462   | 391   | 610   | 0    | 0    | 870   | 427   |
| Ideal Flow (vphpl)        | 1900 | 1900 | 1900 | 1900  | 1900  | 1900  | 1900  | 1900  | 1900 | 1900 | 1900  | 1900  |
| Lane Width (ft)           | 12   | 12   | 12   | 12    | 12    | 12    | 11    | 10    | 10   | 12   | 12    | 12    |
| Grade (%)                 |      | 0%   |      |       | 0%    |       |       | 9%    |      |      | -7%   |       |
| Storage Length (ft)       | 0    |      | 0    | 520   |       | 350   | 105   |       | 0    | 0    |       | 140   |
| Storage Lanes             | 0    |      | 0    | 1     |       | 0     | 1     |       | 0    | 0    |       | 1     |
| Taper Length (ft)         | 145  |      |      | 145   |       |       | 100   |       |      | 25   |       |       |
| Lane Util. Factor         | 1.00 | 1.00 | 1.00 | 0.95  | 0.95  | 1.00  | 1.00  | 0.95  | 1.00 | 1.00 | 0.95  | 1.00  |
| Ped Bike Factor           |      |      |      |       |       |       | 1.00  |       |      |      |       | 0.97  |
| Fr <sub>t</sub>           |      |      |      |       |       | 0.850 |       |       |      |      |       | 0.850 |
| Fl <sub>t</sub> Protected |      |      |      | 0.950 | 0.953 |       | 0.950 |       |      |      |       |       |
| Satd. Flow (prot)         | 0    | 0    | 0    | 1633  | 1638  | 1583  | 1488  | 3064  | 0    | 0    | 3593  | 1548  |
| Fl <sub>t</sub> Permitted |      |      |      | 0.950 | 0.953 |       | 0.155 |       |      |      |       |       |
| Satd. Flow (perm)         | 0    | 0    | 0    | 1633  | 1638  | 1583  | 243   | 3064  | 0    | 0    | 3593  | 1506  |
| Right Turn on Red         |      |      | Yes  |       |       | Yes   |       |       | Yes  |      |       | Yes   |
| Satd. Flow (RTOR)         |      |      |      |       |       | 200   |       |       |      |      |       | 376   |
| Link Speed (mph)          |      | 30   |      |       | 30    |       |       | 30    |      |      |       | 30    |
| Link Distance (ft)        |      | 580  |      |       | 846   |       |       | 504   |      |      |       | 781   |
| Travel Time (s)           |      | 13.2 |      |       | 19.2  |       |       | 11.5  |      |      |       | 17.8  |
| Confl. Peds. (#/hr)       |      |      |      |       |       |       | 3     |       |      |      |       | 3     |
| Peak Hour Factor          | 0.98 | 0.98 | 0.98 | 0.98  | 0.98  | 0.98  | 0.98  | 0.98  | 0.98 | 0.98 | 0.98  | 0.98  |
| Heavy Vehicles (%)        | 0%   | 0%   | 0%   | 5%    | 3%    | 2%    | 12%   | 5%    | 0%   | 0%   | 4%    | 8%    |
| Shared Lane Traffic (%)   |      |      |      | 50%   |       |       |       |       |      |      |       |       |
| Lane Group Flow (vph)     | 0    | 0    | 0    | 424   | 427   | 471   | 399   | 622   | 0    | 0    | 888   | 436   |
| Turn Type                 |      |      |      | Perm  | NA    | Perm  | pm+pt | NA    |      |      | NA    | Perm  |
| Protected Phases          |      |      |      |       | 8     |       | 5     | 2     |      |      |       | 6     |
| Permitted Phases          |      |      |      | 8     |       | 8     | 2     |       |      |      |       | 6     |
| Detector Phase            |      |      |      | 8     | 8     | 8     | 5     | 2     |      |      |       | 6     |
| Switch Phase              |      |      |      |       |       |       |       |       |      |      |       |       |
| Minimum Initial (s)       |      |      |      | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  |      |      | 10.0  | 10.0  |
| Minimum Split (s)         |      |      |      | 15.0  | 15.0  | 15.0  | 15.0  | 15.0  |      |      | 15.0  | 15.0  |
| Total Split (s)           |      |      |      | 34.0  | 34.0  | 34.0  | 20.0  | 41.0  |      |      | 21.0  | 21.0  |
| Total Split (%)           |      |      |      | 45.3% | 45.3% | 45.3% | 26.7% | 54.7% |      |      | 28.0% | 28.0% |
| Maximum Green (s)         |      |      |      | 29.0  | 29.0  | 29.0  | 15.0  | 36.0  |      |      | 16.0  | 16.0  |
| Yellow Time (s)           |      |      |      | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |      |      | 3.0   | 3.0   |
| All-Red Time (s)          |      |      |      | 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)       |      |      |      | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |      |      | 5.0   | 5.0   |
| Lead/Lag                  |      |      |      |       |       |       | Lead  |       |      |      | Lag   | Lag   |
| Lead-Lag Optimize?        |      |      |      |       |       |       | Yes   |       |      |      | Yes   | Yes   |
| Vehicle Extension (s)     |      |      |      | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |      |      | 2.0   | 2.0   |
| Recall Mode               |      |      |      | None  | None  | None  | None  | C-Max |      |      | C-Max | C-Max |
| Act Effct Green (s)       |      |      |      | 24.2  | 24.2  | 24.2  | 40.8  | 40.8  |      |      | 20.8  | 20.8  |
| Actuated g/C Ratio        |      |      |      | 0.32  | 0.32  | 0.32  | 0.54  | 0.54  |      |      | 0.28  | 0.28  |
| v/c Ratio                 |      |      |      | 0.80  | 0.81  | 0.73  | 1.05  | 0.37  |      |      | 0.89  | 0.63  |
| Control Delay             |      |      |      | 34.9  | 35.1  | 19.0  | 72.7  | 4.2   |      |      | 46.2  | 19.8  |
| Queue Delay               |      |      |      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |      |      | 0.0   | 0.0   |



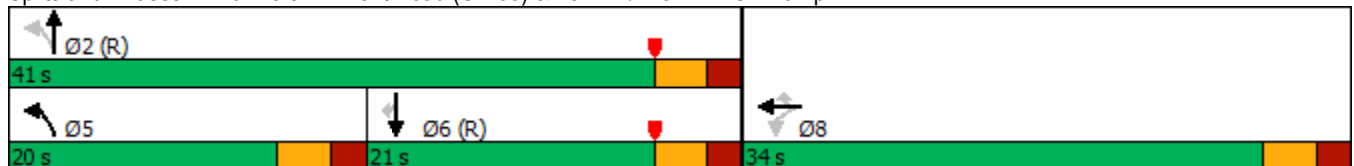


| Lane Group              | EBL | EBT | EBR | WBL  | WBT  | WBR  | NBL  | NBT  | NBR | SBL | SBT  | SBR  |
|-------------------------|-----|-----|-----|------|------|------|------|------|-----|-----|------|------|
| Total Delay             |     |     |     | 34.9 | 35.1 | 19.0 | 72.7 | 4.2  |     |     | 46.2 | 19.8 |
| LOS                     |     |     |     | C    | D    | B    | E    | A    |     |     | D    | B    |
| Approach Delay          |     |     |     | 29.3 |      |      |      | 31.0 |     |     | 37.5 |      |
| Approach LOS            |     |     |     | C    |      |      |      | C    |     |     | D    |      |
| Queue Length 50th (ft)  |     |     |     | 182  | 183  | 105  | ~162 | 46   |     |     | 237  | 102  |
| Queue Length 95th (ft)  |     |     |     | 272  | 274  | 195  | #315 | 16   |     |     | #393 | m169 |
| Internal Link Dist (ft) |     | 500 |     |      | 766  |      |      | 424  |     |     | 701  |      |
| Turn Bay Length (ft)    |     |     |     | 520  |      | 350  | 105  |      |     |     |      | 140  |
| Base Capacity (vph)     |     |     |     | 631  | 633  | 734  | 381  | 1664 |     |     | 994  | 689  |
| 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       |     |     |     | 0.67 | 0.67 | 0.64 | 1.05 | 0.37 |     |     | 0.89 | 0.63 |

Intersection Summary

Area Type: Other  
 Cycle Length: 75  
 Actuated Cycle Length: 75  
 Offset: 32 (43%), Referenced to phase 2:NBTL and 6:SBT, Start of Yellow  
 Natural Cycle: 80  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.05  
 Intersection Signal Delay: 32.7  
 Intersection LOS: C  
 Intersection Capacity Utilization 118.6%  
 ICU Level of Service H  
 Analysis Period (min) 15  
 ~ 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.  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 40: North Airmont Road (CR 89) & I-87 NB/I-287 WB Off-Ramp



HCM 6th Edition methodology does not support turning movements with shared & exclusive lanes.

| Lane Group              | EBL   | EBT   | EBR  | WBL   | WBT   | WBR  | NBL   | NBT   | NBR  | SBL   | SBT   | SBR  |
|-------------------------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|
| Lane Configurations     |       |       |      |       |       |      |       |       |      |       |       |      |
| Traffic Volume (vph)    | 66    | 2     | 31   | 59    | 2     | 62   | 40    | 1268  | 68   | 67    | 1441  | 11   |
| Future Volume (vph)     | 66    | 2     | 31   | 59    | 2     | 62   | 40    | 1268  | 68   | 67    | 1441  | 11   |
| Ideal Flow (vphpl)      | 1900  | 1900  | 1900 | 1900  | 1900  | 1900 | 1900  | 1900  | 1900 | 1900  | 1900  | 1900 |
| Lane Width (ft)         | 14    | 14    | 14   | 14    | 14    | 14   | 10    | 11    | 11   | 10    | 11    | 11   |
| Grade (%)               |       | 0%    |      |       | 0%    |      |       | 0%    |      |       |       | -4%  |
| Storage Length (ft)     | 0     |       | 0    | 0     |       | 0    | 130   |       | 0    | 155   |       | 0    |
| Storage Lanes           | 0     |       | 0    | 0     |       | 0    | 1     |       | 0    | 1     |       | 0    |
| Taper Length (ft)       | 25    |       |      | 25    |       |      | 25    |       |      | 25    |       |      |
| Lane Util. Factor       | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00 | 1.00  | 0.95  | 0.95 | 1.00  | 0.95  | 0.95 |
| Frt                     |       | 0.957 |      |       | 0.932 |      |       | 0.992 |      |       | 0.999 |      |
| Flt Protected           |       | 0.968 |      |       | 0.977 |      | 0.950 |       |      | 0.950 |       |      |
| Satd. Flow (prot)       | 0     | 1784  | 0    | 0     | 1845  | 0    | 1589  | 3275  | 0    | 1718  | 3388  | 0    |
| Flt Permitted           |       | 0.703 |      |       | 0.820 |      | 0.093 |       |      | 0.099 |       |      |
| Satd. Flow (perm)       | 0     | 1295  | 0    | 0     | 1549  | 0    | 156   | 3275  | 0    | 179   | 3388  | 0    |
| Right Turn on Red       |       |       | Yes  |       |       | Yes  |       |       | Yes  |       |       | Yes  |
| Satd. Flow (RTOR)       |       | 30    |      |       | 66    |      |       | 9     |      |       |       | 1    |
| Link Speed (mph)        |       | 30    |      |       | 30    |      |       | 30    |      |       |       | 30   |
| Link Distance (ft)      |       | 182   |      |       | 462   |      |       | 185   |      |       |       | 144  |
| Travel Time (s)         |       | 4.1   |      |       | 10.5  |      |       | 4.2   |      |       |       | 3.3  |
| Peak Hour Factor        | 0.92  | 0.92  | 0.92 | 0.92  | 0.92  | 0.92 | 0.92  | 0.92  | 0.92 | 0.92  | 0.92  | 0.92 |
| Heavy Vehicles (%)      | 6%    | 0%    | 4%   | 0%    | 0%    | 0%   | 6%    | 6%    | 0%   | 0%    | 5%    | 0%   |
| Shared Lane Traffic (%) |       |       |      |       |       |      |       |       |      |       |       |      |
| Lane Group Flow (vph)   | 0     | 108   | 0    | 0     | 133   | 0    | 43    | 1452  | 0    | 73    | 1578  | 0    |
| Turn Type               | Perm  | NA    |      | Perm  | NA    |      | pm+pt | NA    |      | pm+pt | NA    |      |
| Protected Phases        |       | 4     |      |       | 8     |      | 5     | 2     |      | 1     | 6     |      |
| Permitted Phases        | 4     |       |      | 8     |       |      | 2     |       |      | 6     |       |      |
| Detector Phase          | 4     | 4     |      | 8     | 8     |      | 5     | 2     |      | 1     | 6     |      |
| Switch Phase            |       |       |      |       |       |      |       |       |      |       |       |      |
| Minimum Initial (s)     | 10.0  | 10.0  |      | 10.0  | 10.0  |      | 10.0  | 10.0  |      | 10.0  | 10.0  |      |
| Minimum Split (s)       | 14.0  | 14.0  |      | 14.0  | 14.0  |      | 14.0  | 14.0  |      | 14.0  | 14.0  |      |
| Total Split (s)         | 24.0  | 24.0  |      | 24.0  | 24.0  |      | 15.0  | 36.0  |      | 15.0  | 36.0  |      |
| Total Split (%)         | 32.0% | 32.0% |      | 32.0% | 32.0% |      | 20.0% | 48.0% |      | 20.0% | 48.0% |      |
| Maximum Green (s)       | 20.0  | 20.0  |      | 20.0  | 20.0  |      | 11.0  | 32.0  |      | 11.0  | 32.0  |      |
| Yellow Time (s)         | 3.0   | 3.0   |      | 3.0   | 3.0   |      | 3.0   | 3.0   |      | 3.0   | 3.0   |      |
| All-Red Time (s)        | 1.0   | 1.0   |      | 1.0   | 1.0   |      | 1.0   | 1.0   |      | 1.0   | 1.0   |      |
| Lost Time Adjust (s)    |       | 0.0   |      |       | 0.0   |      | 0.0   | 0.0   |      | 0.0   | 0.0   |      |
| Total Lost Time (s)     |       | 4.0   |      |       | 4.0   |      | 4.0   | 4.0   |      | 4.0   | 4.0   |      |
| Lead/Lag                |       |       |      |       |       |      | Lead  | Lag   |      | Lead  | Lag   |      |
| Lead-Lag Optimize?      |       |       |      |       |       |      | Yes   | Yes   |      | Yes   | Yes   |      |
| Vehicle Extension (s)   | 6.0   | 6.0   |      | 6.0   | 6.0   |      | 6.0   | 6.0   |      | 6.0   | 6.0   |      |
| Recall Mode             | None  | None  |      | None  | None  |      | None  | C-Max |      | None  | C-Max |      |
| Walk Time (s)           |       |       |      | 7.0   | 7.0   |      |       | 7.0   |      |       | 7.0   |      |
| Flash Dont Walk (s)     |       |       |      | 13.0  | 13.0  |      |       | 13.0  |      |       | 13.0  |      |
| Pedestrian Calls (#/hr) |       |       |      | 0     | 0     |      |       | 0     |      |       | 0     |      |
| Act Effct Green (s)     |       | 12.7  |      |       | 12.7  |      | 53.8  | 46.5  |      | 54.8  | 49.5  |      |
| Actuated g/C Ratio      |       | 0.17  |      |       | 0.17  |      | 0.72  | 0.62  |      | 0.73  | 0.66  |      |
| v/c Ratio               |       | 0.44  |      |       | 0.42  |      | 0.14  | 0.71  |      | 0.22  | 0.71  |      |
| Control Delay           |       | 26.0  |      |       | 18.7  |      | 4.8   | 16.9  |      | 8.3   | 12.6  |      |



| Lane Group              | EBL | EBT  | EBR | WBL | WBT  | WBR | NBL  | NBT  | NBR | SBL  | SBT  | SBR |
|-------------------------|-----|------|-----|-----|------|-----|------|------|-----|------|------|-----|
| Queue Delay             |     | 0.0  |     |     | 0.0  |     | 0.0  | 0.0  |     | 0.0  | 0.0  |     |
| Total Delay             |     | 26.0 |     |     | 18.7 |     | 4.8  | 16.9 |     | 8.3  | 12.6 |     |
| LOS                     |     | C    |     |     | B    |     | A    | B    |     | A    | B    |     |
| Approach Delay          |     | 26.0 |     |     | 18.7 |     |      | 16.5 |     |      | 12.4 |     |
| Approach LOS            |     | C    |     |     | B    |     |      | B    |     |      | B    |     |
| Queue Length 50th (ft)  |     | 33   |     |     | 28   |     | 4    | 267  |     | 8    | 167  |     |
| Queue Length 95th (ft)  |     | 73   |     |     | 71   |     | 15   | #478 |     | m29  | #506 |     |
| Internal Link Dist (ft) |     | 102  |     |     | 382  |     |      | 105  |     |      | 64   |     |
| Turn Bay Length (ft)    |     |      |     |     |      |     | 130  |      |     | 155  |      |     |
| Base Capacity (vph)     |     | 367  |     |     | 461  |     | 323  | 2035 |     | 357  | 2235 |     |
| Starvation Cap Reductn  |     | 0    |     |     | 0    |     | 0    | 0    |     | 0    | 0    |     |
| Spillback Cap Reductn   |     | 0    |     |     | 0    |     | 0    | 0    |     | 0    | 0    |     |
| Storage Cap Reductn     |     | 0    |     |     | 0    |     | 0    | 0    |     | 0    | 0    |     |
| Reduced v/c Ratio       |     | 0.29 |     |     | 0.29 |     | 0.13 | 0.71 |     | 0.20 | 0.71 |     |

Intersection Summary



















Area Type: Other  
 Cycle Length: 75  
 Actuated Cycle Length: 75  
 Offset: 72 (96%), Referenced to phase 2:NBTL and 6:SBTL, Start of Yellow  
 Natural Cycle: 60  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.71  
 Intersection Signal Delay: 14.9  
 Intersection Capacity Utilization 66.8%  
 Analysis Period (min) 15  
 Intersection LOS: B  
 ICU Level of Service C

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

m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 50: North Airmont Road (CR 89) & North DeBaun Avenue



|                              |  |  |  |  |  |  |   |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement                     | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations          |   |  |   |   |  |   |  |  |   |  |  |   |
| Traffic Volume (veh/h)       | 66  | 2   | 31  | 59  | 2   | 62  | 40  | 1268  | 68  | 67  | 1441  | 11  |
| Future Volume (veh/h)        | 66  | 2   | 31  | 59  | 2   | 62  | 40  | 1268  | 68  | 67  | 1441  | 11  |
| Initial Q (Qb), veh          | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 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  |   |
| Adj Sat Flow, veh/h/ln       | 1884  | 1976  | 1914  | 1976  | 1976  | 1976  | 1811  | 1811  | 1900  | 2057  | 1982  | 2057  |
| Adj Flow Rate, veh/h         | 72  | 2   | 34  | 64  | 2   | 67  | 43  | 1378  | 74  | 73  | 1566  | 12  |
| Peak Hour Factor             | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  |
| Percent Heavy Veh, %         | 6   | 0   | 4   | 0   | 0   | 0   | 6   | 6   | 0   | 0   | 5   | 0   |
| Cap, veh/h                   | 212   | 21  | 70  | 161   | 21  | 113   | 349   | 2004  | 107   | 430   | 2408  | 18  |
| Arrive On Green              | 0.13  | 0.13  | 0.13  | 0.13  | 0.13  | 0.13  | 0.08  | 0.60  | 0.60  | 0.10  | 0.63  | 0.63  |
| Sat Flow, veh/h              | 994   | 156   | 528   | 679   | 161   | 853   | 1725  | 3322  | 178   | 1959  | 3831  | 29  |
| Grp Volume(v), veh/h         | 108   | 0   | 0   | 133   | 0   | 0   | 43  | 712   | 740   | 73  | 769   | 809   |
| Grp Sat Flow(s),veh/h/ln     | 1678  | 0   | 0   | 1692  | 0   | 0   | 1725  | 1721  | 1779  | 1959  | 1883  | 1977  |
| Q Serve(g_s), s              | 0.0   | 0.0   | 0.0   | 1.1   | 0.0   | 0.0   | 0.6   | 21.0  | 21.2  | 0.8   | 19.2  | 19.3  |
| Cycle Q Clear(g_c), s        | 4.0   | 0.0   | 0.0   | 5.1   | 0.0   | 0.0   | 0.6   | 21.0  | 21.2  | 0.8   | 19.2  | 19.3  |
| Prop In Lane                 | 0.67  |   | 0.31  | 0.48  |   | 0.50  | 1.00  |   | 0.10  | 1.00  |   | 0.01  |
| Lane Grp Cap(c), veh/h       | 302   | 0   | 0   | 295   | 0   | 0   | 349   | 1038  | 1073  | 430   | 1184  | 1243  |
| V/C Ratio(X)                 | 0.36  | 0.00  | 0.00  | 0.45  | 0.00  | 0.00  | 0.12  | 0.69  | 0.69  | 0.17  | 0.65  | 0.65  |
| Avail Cap(c_a), veh/h        | 502   | 0   | 0   | 505   | 0   | 0   | 466   | 1038  | 1073  | 513   | 1184  | 1243  |
| 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(I)           | 1.00  | 0.00  | 0.00  | 1.00  | 0.00  | 0.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Uniform Delay (d), s/veh     | 30.0  | 0.0   | 0.0   | 30.4  | 0.0   | 0.0   | 6.2   | 10.1  | 10.1  | 7.0   | 8.7   | 8.8   |
| Incr Delay (d2), s/veh       | 2.6   | 0.0   | 0.0   | 3.9   | 0.0   | 0.0   | 0.6   | 3.7   | 3.6   | 0.7   | 2.8   | 2.7   |
| 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(95%),veh/ln     | 3.5   | 0.0   | 0.0   | 4.5   | 0.0   | 0.0   | 0.4   | 12.1  | 12.5  | 0.6   | 11.6  | 12.1  |
| Unsig. Movement Delay, s/veh |   |   |   |   |   |   |   |   |   |   |   |   |
| LnGrp Delay(d),s/veh         | 32.5  | 0.0   | 0.0   | 34.3  | 0.0   | 0.0   | 6.8   | 13.8  | 13.7  | 7.7   | 11.5  | 11.4  |
| LnGrp LOS                    | C   | A   | A   | C   | A   | A   | A   | B   | B   | A   | B   | B   |
| Approach Vol, veh/h          |   | 108   |   |   | 133   |   |   | 1495  |   |   | 1651  |   |
| Approach Delay, s/veh        |   | 32.5  |   |   | 34.3  |   |   | 13.5  |   |   | 11.3  |   |
| Approach LOS                 |   | C   |   |   | C   |   |   | B   |   |   | B   |   |
| Timer - Assigned Phs         | 1   | 2   |   | 4   | 5   | 6   |   | 8   |   |   |   |   |
| Phs Duration (G+Y+Rc), s     | 11.8  | 49.3  |   | 13.9  | 9.9   | 51.1  |   | 13.9  |   |   |   |   |
| Change Period (Y+Rc), s      | 4.0   | 4.0   |   | 4.0   | 4.0   | 4.0   |   | 4.0   |   |   |   |   |
| Max Green Setting (Gmax), s  | 11.0  | 32.0  |   | 20.0  | 11.0  | 32.0  |   | 20.0  |   |   |   |   |
| Max Q Clear Time (g_c+I1), s | 2.8   | 23.2  |   | 6.0   | 2.6   | 21.3  |   | 7.1   |   |   |   |   |
| Green Ext Time (p_c), s      | 0.2   | 8.1   |   | 0.9   | 0.1   | 10.0  |   | 1.1   |   |   |   |   |
| <b>Intersection Summary</b>  |   |   |   |   |   |   |   |   |   |   |   |   |
| HCM 6th Ctrl Delay           |   |   |   | 13.9  |   |   |   |   |   |   |   |   |
| HCM 6th LOS                  |   |   |   | B   |   |   |   |   |   |   |   |   |

| Intersection             |        |        |        |       |      |       |
|--------------------------|--------|--------|--------|-------|------|-------|
| Int Delay, s/veh         | 2.8    |        |        |       |      |       |
| Movement                 | EBT    | EBR    | WBL    | WBT   | NBL  | NBR   |
| Lane Configurations      | ↑      |        | ↑      | ↑     | ↑    | ↑     |
| Traffic Vol, veh/h       | 867    | 18     | 171    | 856   | 23   | 113   |
| Future Vol, veh/h        | 867    | 18     | 171    | 856   | 23   | 113   |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0     | 0    | 0     |
| Sign Control             | Free   | Free   | Free   | Free  | Stop | Stop  |
| RT Channelized           | -      | None   | -      | None  | -    | None  |
| Storage Length           | -      | -      | 0      | -     | 0    | -     |
| Veh in Median Storage, # | 0      | -      | -      | 0     | 0    | -     |
| Grade, %                 | -4     | -      | -      | 2     | -4   | -     |
| Peak Hour Factor         | 94     | 94     | 94     | 94    | 94   | 94    |
| Heavy Vehicles, %        | 6      | 7      | 6      | 6     | 0    | 7     |
| Mvmt Flow                | 922    | 19     | 182    | 911   | 24   | 120   |
| Major/Minor              | Major1 | Major2 | Minor1 |       |      |       |
| Conflicting Flow All     | 0      | 0      | 941    | 0     | 2207 | 932   |
| Stage 1                  | -      | -      | -      | -     | 932  | -     |
| Stage 2                  | -      | -      | -      | -     | 1275 | -     |
| Critical Hdwy            | -      | -      | 4.16   | -     | 5.6  | 5.87  |
| Critical Hdwy Stg 1      | -      | -      | -      | -     | 4.6  | -     |
| Critical Hdwy Stg 2      | -      | -      | -      | -     | 4.6  | -     |
| Follow-up Hdwy           | -      | -      | 2.254  | -     | 3.5  | 3.363 |
| Pot Cap-1 Maneuver       | -      | -      | 712    | -     | 81   | 351   |
| Stage 1                  | -      | -      | -      | -     | 475  | -     |
| Stage 2                  | -      | -      | -      | -     | 352  | -     |
| Platoon blocked, %       | -      | -      | -      | -     | -    | -     |
| Mov Cap-1 Maneuver       | -      | -      | 712    | -     | 60   | 351   |
| Mov Cap-2 Maneuver       | -      | -      | -      | -     | 179  | -     |
| Stage 1                  | -      | -      | -      | -     | 475  | -     |
| Stage 2                  | -      | -      | -      | -     | 262  | -     |
| Approach                 | EB     | WB     | NB     |       |      |       |
| HCM Control Delay, s     | 0      | 2      | 27.4   |       |      |       |
| HCM LOS                  |        |        |        |       |      | D     |
| Minor Lane/Major Mvmt    | NBLn1  | EBT    | EBR    | WBL   | WBT  |       |
| Capacity (veh/h)         | 302    | -      | -      | 712   | -    |       |
| HCM Lane V/C Ratio       | 0.479  | -      | -      | 0.255 | -    |       |
| HCM Control Delay (s)    | 27.4   | -      | -      | 11.8  | -    |       |
| HCM Lane LOS             | D      | -      | -      | B     | -    |       |
| HCM 95th %tile Q(veh)    | 2.5    | -      | -      | 1     | -    |       |

| Intersection             |      |      |      |      |      |      |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh         | 0.5  |      |      |      |      |      |
| Movement                 | EBL  | EBR  | NBL  | NBT  | SBT  | SBR  |
| Lane Configurations      | T    |      |      | T    |      |      |
| Traffic Vol, veh/h       | 0    | 20   | 20   | 483  | 534  | 0    |
| Future Vol, veh/h        | 0    | 20   | 20   | 483  | 534  | 0    |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Stop | Stop | Free | Free | Free | Free |
| RT Channelized           | -    | None | -    | None | -    | None |
| Storage Length           | 0    | -    | -    | -    | -    | -    |
| Veh in Median Storage, # | 0    | -    | -    | 0    | 0    | -    |
| Grade, %                 | -1   | -    | -    | -6   | 0    | -    |
| Peak Hour Factor         | 87   | 87   | 87   | 87   | 87   | 87   |
| Heavy Vehicles, %        | 0    | 100  | 100  | 5    | 6    | 0    |
| Mvmt Flow                | 0    | 23   | 23   | 555  | 614  | 0    |

| Major/Minor          | Minor2 | Major1 |     | Major2 |   |
|----------------------|--------|--------|-----|--------|---|
| Conflicting Flow All | 1215   | 614    | 614 | 0      | 0 |
| Stage 1              | 614    | -      | -   | -      | - |
| Stage 2              | 601    | -      | -   | -      | - |
| Critical Hdwy        | 6.2    | 7.1    | 5.1 | -      | - |
| Critical Hdwy Stg 1  | 5.2    | -      | -   | -      | - |
| Critical Hdwy Stg 2  | 5.2    | -      | -   | -      | - |
| Follow-up Hdwy       | 3.5    | 4.2    | 3.1 | -      | - |
| Pot Cap-1 Maneuver   | 216    | 358    | 627 | -      | - |
| Stage 1              | 563    | -      | -   | -      | - |
| Stage 2              | 570    | -      | -   | -      | - |
| Platoon blocked, %   |        |        |     | -      | - |
| Mov Cap-1 Maneuver   | 205    | 358    | 627 | -      | - |
| Mov Cap-2 Maneuver   | 205    | -      | -   | -      | - |
| Stage 1              | 533    | -      | -   | -      | - |
| Stage 2              | 570    | -      | -   | -      | - |

| Approach             | EB   | NB  | SB |
|----------------------|------|-----|----|
| HCM Control Delay, s | 15.7 | 0.4 | 0  |
| HCM LOS              | C    |     |    |

| Minor Lane/Major Mvmt | NBL   | NBT | EBLn1 | SBT | SBR |
|-----------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h)      | 627   | -   | 358   | -   | -   |
| HCM Lane V/C Ratio    | 0.037 | -   | 0.064 | -   | -   |
| HCM Control Delay (s) | 11    | 0   | 15.7  | -   | -   |
| HCM Lane LOS          | B     | A   | C     | -   | -   |
| HCM 95th %tile Q(veh) | 0.1   | -   | 0.2   | -   | -   |