

**TABLE S4.1b**  
**Year 2017 Seminole County Travel Time & Delay Study**  
**SR 436 (Part B) - Eastbound Direction Summary**

| Roadway Segment                                    | Speed Limit | Distance (ft) | Traffic Control | Travel Time   | Stop Delay   | Roadway Class | Roadway Segment |     | Roadway Section |     | Roadway Summary  |                      |
|--|-------------|---------------|-----------------|---------------|--------------|---------------|-----------------|-----|-----------------|-----|------------------|----------------------|
|  | (mph)       |               | Device          | (sec)         | (sec)        |               | Average Speed   |     | Average Speed   |     | Avg. Speed (mph) | Avg. Fuel Consump.   |
|  |             |               |                 |               |              |               | (mph)           | LOS | (mph)           | LOS |                  |                      |
| <b>AM PEAK HOUR - Part B</b>                       |             |               |                 |               |              |               |                 |     |                 |     |                  |                      |
| North Lake Blvd. to Hattaway Dr.                   | 40          | 686           | Signal          | 16.2          | 0.0          | I             | 28.9            | C   |                 |     |                  |                      |
| Hattaway Dr. to Renaissance Dr.                    | 40          | 686           | Signal          | 12.0          | 0.0          | I             | 39.0            | B   |                 |     |                  |                      |
| Renaissance Dr. to Essex St.                       | 40          | 686           | Signal          | 11.4          | 0.0          | I             | 41.1            | A   |                 |     |                  |                      |
| Essex St. to Mall Entrance                         | 40          | 634           | Signal          | 10.8          | 0.0          | I             | 40.0            | B   |                 |     |                  |                      |
| Mall Entrance to Palm Springs Dr.                  | 40          | 634           | Signal          | 15.0          | 3.0          | I             | 28.8            | C   | 34.7            | B   |                  |                      |
| Palm Springs Dr. to Boston Ave.                    | 40          | 950           | Signal          | 18.6          | 0.6          | I             | 34.8            | B   |                 |     |                  |                      |
| Boston Ave. to CR 427/Maitland Ave.                | 40          | 1,690         | Signal          | 34.2          | 2.4          | I             | 33.7            | B   | 34.1            | B   |                  |                      |
| CR 427/Maitland Ave. to CR 427/Ronald Reagan Blvd. | 40          | 2,587         | Signal          | 50.4          | 1.2          | I             | 35.0            | B   | 35.0            | B   |                  |                      |
| CR 427/Ronald Reagan Blvd. to Prarie Lake Dr.      | 40          | 1,531         | Signal          | 29.4          | 0.6          | I             | 35.5            | B   |                 |     |                  |                      |
| Prarie Lake Dr. to Anchor Rd.                      | 40          | 2,429         | Signal          | 63.6          | 16.2         | I             | 26.0            | C   |                 |     |                  |                      |
| Anchor Rd. to US 17/92                             | 40          | 1,584         | Signal          | 138.0         | 52.2         | I             | 7.8             | F   | 16.4            | E   |                  |                      |
| US 17/92 to Plaza Entrance                         | 40          | 898           | Signal          | 18.0          | 0.0          | I             | 34.0            | B   |                 |     |                  |                      |
| Plaza Entrance to Oxford Rd.                       | 40          | 528           | Signal          | 9.6           | 0.0          | I             | 37.5            | B   |                 |     |                  |                      |
| Oxford Rd. to Fern Park Blvd.                      | 40/45       | 1,214         | Signal          | 26.4          | 0.0          | I             | 31.4            | B   |                 |     |                  |                      |
| Fern Park Blvd. to Wilshire Blvd.                  | 45          | 2,851         | Signal          | 57.0          | 3.0          | I             | 34.1            | B   |                 |     |                  |                      |
| Wilshire Blvd. to Kewanee Tr.                      | 45          | 1,373         | Signal          | 22.2          | 0.0          | I             | 42.2            | A   |                 |     |                  |                      |
| Kewanee Tr. to Red Bug Lake Rd.                    | 45          | 1,003         | Signal          | 17.4          | 0.6          | I             | 39.3            | B   | 35.6            | B   |                  |                      |
| Red Bug Lake Rd. to Sausalito Blvd.                | 45          | 950           | Signal          | 15.0          | 0.0          | I             | 43.2            | A   |                 |     |                  |                      |
| Sausalito Blvd. to Lake Howell Rd.                 | 45/50       | 1,848         | Signal          | 28.2          | 0.0          | I             | 44.7            | A   | 44.2            | A   |                  |                      |
| Lake Howell Rd. to Lake Howell Square              | 50          | 1,320         | Signal          | 48.6          | 12.6         | I             | 18.5            | D   |                 |     |                  |                      |
| Lake Howell Square to Lake Howell Ln.              | 50          | 1,373         | Signal          | 22.2          | 0.0          | I             | 42.2            | A   |                 |     |                  |                      |
| Lake Howell Ln. to Howell Branch Rd.               | 50          | 2,851         | Signal          | 107.4         | 25.8         | I             | 18.1            | D   | 21.2            | D   |                  |                      |
| Howell Branch Rd. to Winter Woods Blvd.            | 50          | 2,482         | Signal          | 38.4          | 0.6          | I             | 44.1            | A   |                 |     |                  |                      |
| Winter Woods Blvd. to Castleton Blvd.              | 50          | 2,798         | Signal          | 41.4          | 0.0          | I             | 46.1            | A   | 45.1            | A   |                  |                      |
| <b>TOTAL</b>                                       |             | <b>35,587</b> |                 | <b>851.4</b>  | <b>118.8</b> |               |                 |     |                 |     | <b>28.5</b>      | <b>0.233 gal/veh</b> |
| <b>PM PEAK HOUR - Part B</b>                       |             |               |                 |               |              |               |                 |     |                 |     |                  |                      |
| North Lake Blvd. to Hattaway Dr.                   | 40          | 686           | Signal          | 12.0          | 0.0          | I             | 39.0            | B   |                 |     |                  |                      |
| Hattaway Dr. to Renaissance Dr.                    | 40          | 686           | Signal          | 34.8          | 13.2         | I             | 13.4            | F   |                 |     |                  |                      |
| Renaissance Dr. to Essex St.                       | 40          | 686           | Signal          | 44.4          | 21.6         | I             | 10.5            | F   |                 |     |                  |                      |
| Essex St. to Mall Entrance                         | 40          | 634           | Signal          | 13.2          | 0.0          | I             | 32.7            | B   |                 |     |                  |                      |
| Mall Entrance to Palm Springs Dr.                  | 40          | 634           | Signal          | 12.0          | 0.0          | I             | 36.0            | B   | 19.5            | D   |                  |                      |
| Palm Springs Dr. to Boston Ave.                    | 40          | 950           | Signal          | 17.4          | 0.0          | I             | 37.2            | B   |                 |     |                  |                      |
| Boston Ave. to CR 427/Maitland Ave.                | 40          | 1,690         | Signal          | 37.8          | 2.4          | I             | 30.5            | C   | 32.6            | B   |                  |                      |
| CR 427/Maitland Ave. to CR 427/Ronald Reagan Blvd. | 40          | 2,587         | Signal          | 53.4          | 0.6          | I             | 33.0            | B   | 33.0            | B   |                  |                      |
| CR 427/Ronald Reagan Blvd. to Prarie Lake Dr.      | 40          | 1,531         | Signal          | 28.8          | 0.0          | I             | 36.2            | B   |                 |     |                  |                      |
| Prarie Lake Dr. to Anchor Rd.                      | 40          | 2,429         | Signal          | 101.4         | 42.0         | I             | 16.3            | E   |                 |     |                  |                      |
| Anchor Rd. to US 17/92                             | 40          | 1,584         | Signal          | 174.6         | 91.8         | I             | 6.2             | F   | 12.4            | F   |                  |                      |
| US 17/92 to Plaza Entrance                         | 40          | 898           | Signal          | 24.6          | 1.2          | I             | 24.9            | C   |                 |     |                  |                      |
| Plaza Entrance to Oxford Rd.                       | 40          | 528           | Signal          | 11.4          | 0.0          | I             | 31.6            | B   |                 |     |                  |                      |
| Oxford Rd. to Fern Park Blvd.                      | 40/45       | 1,214         | Signal          | 20.4          | 0.0          | I             | 40.6            | A   |                 |     |                  |                      |
| Fern Park Blvd. to Wilshire Blvd.                  | 45          | 2,851         | Signal          | 57.6          | 6.6          | I             | 33.7            | B   |                 |     |                  |                      |
| Wilshire Blvd. to Kewanee Tr.                      | 45          | 1,373         | Signal          | 32.4          | 8.4          | I             | 28.9            | C   |                 |     |                  |                      |
| Kewanee Tr. to Red Bug Lake Rd.                    | 45          | 1,003         | Signal          | 36.0          | 1.2          | I             | 19.0            | D   | 29.4            | C   |                  |                      |
| Red Bug Lake Rd. to Sausalito Blvd.                | 45          | 950           | Signal          | 16.2          | 0.0          | I             | 40.0            | B   |                 |     |                  |                      |
| Sausalito Blvd. to Lake Howell Rd.                 | 45/50       | 1,848         | Signal          | 47.4          | 7.8          | I             | 26.6            | C   | 30.0            | C   |                  |                      |
| Lake Howell Rd. to Lake Howell Square              | 50          | 1,320         | Signal          | 34.2          | 7.2          | I             | 26.3            | C   |                 |     |                  |                      |
| Lake Howell Square to Lake Howell Ln.              | 50          | 1,373         | Signal          | 33.6          | 10.8         | I             | 27.9            | C   |                 |     |                  |                      |
| Lake Howell Ln. to Howell Branch Rd.               | 50          | 2,851         | Signal          | 81.0          | 22.2         | I             | 24.0            | C   | 25.4            | C   |                  |                      |
| Howell Branch Rd. to Winter Woods Blvd.            | 50          | 2,482         | Signal          | 37.2          | 0.0          | I             | 45.5            | A   |                 |     |                  |                      |
| Winter Woods Blvd. to Castleton Blvd.              | 50          | 2,798         | Signal          | 43.2          | 2.4          | I             | 44.2            | A   | 44.8            | A   |                  |                      |
| <b>TOTAL</b>                                       |             | <b>35,587</b> |                 | <b>1005.0</b> | <b>239.4</b> |               |                 |     |                 |     | <b>24.1</b>      | <b>0.239 gal/veh</b> |

**TABLE S4.2b**  
**Year 2017 Seminole County Travel Time & Delay Study**  
**SR 436 (Part B) - Westbound Direction Summary**

| Roadway Segment                                    | Speed Limit (mph) | Distance (ft) | Traffic Control Device | Travel Time (sec) | Stop Delay (sec) | Roadway Class | Roadway Segment |     | Roadway Section |     | Roadway Summary  |                      |
|--|-------------------|---------------|------------------------|-------------------|------------------|---------------|-----------------|-----|-----------------|-----|------------------|----------------------|
|  |                   |               |                        |                   |                  |               | Average Speed   |     | Average Speed   |     | Avg. Speed (mph) | Avg. Fuel Consump.   |
|  |                   |               |                        |                   |                  |               | (mph)           | LOS | (mph)           | LOS |                  |                      |
| <b>AM PEAK HOUR - Part B</b>                       |                   |               |                        |                   |                  |               |                 |     |                 |     |                  |                      |
| Castelton Blvd. to Winter Woods Blvd.              | 50                | 2,798         | Signal                 | 42.0              | 0.0              | I             | 45.4            | A   |                 |     |                  |                      |
| Winter Woods Blvd. to Howell Branch Rd.            | 50                | 2,482         | Signal                 | 118.8             | 59.4             | I             | 14.2            | F   | 22.4            | D   |                  |                      |
| Howell Branch Rd. to Lake Howell Ln.               | 50                | 2,851         | Signal                 | 43.2              | 0.0              | I             | 45.0            | A   |                 |     |                  |                      |
| Lake Howell Ln. to Lake Howell Square              | 50                | 1,373         | Signal                 | 19.2              | 0.0              | I             | 48.7            | A   |                 |     |                  |                      |
| Lake Howell Square to Lake Howell Rd.              | 50                | 1,320         | Signal                 | 21.0              | 0.0              | I             | 42.9            | A   | 45.3            | A   |                  |                      |
| Lake Howell Rd. to Sausalito Blvd.                 | 50/45             | 1,848         | Signal                 | 37.2              | 5.4              | I             | 33.9            | B   |                 |     |                  |                      |
| Sausalito Blvd. to Red Bug Lake Rd.                | 45                | 950           | Signal                 | 69.0              | 28.2             | I             | 9.4             | F   | 18.0            | E   |                  |                      |
| Red Bug Lake Rd. to Kewanee Tr.                    | 45                | 1,003         | Signal                 | 27.0              | 7.8              | I             | 25.3            | C   |                 |     |                  |                      |
| Kewanee Tr. to Wilshire Blvd.                      | 45                | 1,373         | Signal                 | 25.8              | 0.0              | I             | 36.3            | B   |                 |     |                  |                      |
| Wilshire Blvd. to Fern Park Blvd.                  | 45                | 2,851         | Signal                 | 73.8              | 9.6              | I             | 26.3            | C   |                 |     |                  |                      |
| Fern Park Blvd. to Oxford Rd.                      | 45/40             | 1,214         | Signal                 | 52.2              | 16.8             | I             | 15.9            | E   |                 |     |                  |                      |
| Oxford Rd. to Plaza Entrance                       | 40                | 528           | Signal                 | 12.6              | 1.2              | I             | 28.6            | C   |                 |     |                  |                      |
| Plaza Entrance to US 17/92                         | 40                | 898           | Signal                 | 27.0              | 5.4              | I             | 22.7            | D   | 24.6            | C   |                  |                      |
| US 17/92 to Anchor Rd.                             | 40                | 1,584         | Signal                 | 34.2              | 0.0              | I             | 31.6            | B   |                 |     |                  |                      |
| Anchor Rd. to Prairie Lake Dr.                     | 40                | 2,429         | Signal                 | 42.0              | 0.0              | I             | 39.4            | B   |                 |     |                  |                      |
| Prairie Lake Dr. to CR 427/Ronald Reagan Blvd.     | 40                | 1,531         | Signal                 | 86.4              | 22.8             | I             | 12.1            | F   | 23.2            | C   |                  |                      |
| CR 427/Ronald Reagan Blvd. to CR 427/Maitland Ave. | 40                | 2,587         | Signal                 | 65.4              | 10.2             | I             | 27.0            | C   | 27.0            | C   |                  |                      |
| CR 427/Maitland Ave. to Boston Ave.                | 40                | 1,690         | Signal                 | 45.0              | 6.0              | I             | 25.6            | C   |                 |     |                  |                      |
| Boston Ave. to Palm Springs Dr.                    | 40                | 950           | Signal                 | 81.6              | 22.8             | I             | 7.9             | F   | 14.2            | F   |                  |                      |
| Palm Springs Dr. to Mall Entrance                  | 40                | 634           | Signal                 | 15.6              | 3.0              | I             | 27.7            | C   |                 |     |                  |                      |
| Mall Entrance to Essex St.                         | 40                | 634           | Signal                 | 12.0              | 0.0              | I             | 36.0            | B   |                 |     |                  |                      |
| Essex St. to Renaissance Dr.                       | 40                | 686           | Signal                 | 12.0              | 0.0              | I             | 39.0            | B   |                 |     |                  |                      |
| Renaissance Dr. to Hattaway Dr.                    | 40                | 686           | Signal                 | 13.8              | 0.6              | I             | 33.9            | B   |                 |     |                  |                      |
| Hattaway Dr. to North Lake Blvd.                   | 40                | 686           | Signal                 | 19.8              | 7.8              | I             | 23.6            | C   | 31.0            | C   |                  |                      |
| <b>TOTAL</b>                                       |                   | <b>35,587</b> |                        | <b>996.6</b>      | <b>207.0</b>     |               |                 |     |                 |     | <b>24.3</b>      | <b>0.237 gal/veh</b> |
| <b>PM PEAK HOUR - Part B</b>                       |                   |               |                        |                   |                  |               |                 |     |                 |     |                  |                      |
| Castelton Blvd. to Winter Woods Blvd.              | 50                | 2,798         | Signal                 | 50.4              | 5.4              | I             | 37.9            | B   |                 |     |                  |                      |
| Winter Woods Blvd. to Howell Branch Rd.            | 50                | 2,482         | Signal                 | 118.8             | 50.4             | I             | 14.2            | F   | 21.3            | D   |                  |                      |
| Howell Branch Rd. to Lake Howell Ln.               | 50                | 2,851         | Signal                 | 46.2              | 0.0              | I             | 42.1            | A   |                 |     |                  |                      |
| Lake Howell Ln. to Lake Howell Square              | 50                | 1,373         | Signal                 | 20.4              | 0.0              | I             | 45.9            | A   |                 |     |                  |                      |
| Lake Howell Square to Lake Howell Rd.              | 50                | 1,320         | Signal                 | 19.2              | 0.0              | I             | 46.9            | A   | 44.1            | A   |                  |                      |
| Lake Howell Rd. to Sausalito Blvd.                 | 50/45             | 1,848         | Signal                 | 33.0              | 0.6              | I             | 38.2            | B   |                 |     |                  |                      |
| Sausalito Blvd. to Red Bug Lake Rd.                | 45                | 950           | Signal                 | 45.0              | 15.6             | I             | 14.4            | F   | 24.5            | C   |                  |                      |
| Red Bug Lake Rd. to Kewanee Tr.                    | 45                | 1,003         | Signal                 | 30.6              | 8.4              | I             | 22.4            | D   |                 |     |                  |                      |
| Kewanee Tr. to Wilshire Blvd.                      | 45                | 1,373         | Signal                 | 57.6              | 19.8             | I             | 16.2            | E   |                 |     |                  |                      |
| Wilshire Blvd. to Fern Park Blvd.                  | 45                | 2,851         | Signal                 | 58.8              | 7.8              | I             | 33.1            | B   |                 |     |                  |                      |
| Fern Park Blvd. to Oxford Rd.                      | 45/40             | 1,214         | Signal                 | 52.8              | 9.0              | I             | 15.7            | E   |                 |     |                  |                      |
| Oxford Rd. to Plaza Entrance                       | 40                | 528           | Signal                 | 19.8              | 7.8              | I             | 18.2            | D   |                 |     |                  |                      |
| Plaza Entrance to US 17/92                         | 40                | 898           | Signal                 | 54.6              | 13.2             | I             | 11.2            | F   | 19.6            | D   |                  |                      |
| US 17/92 to Anchor Rd.                             | 40                | 1,584         | Signal                 | 29.4              | 0.0              | I             | 36.7            | B   |                 |     |                  |                      |
| Anchor Rd. to Prairie Lake Dr.                     | 40                | 2,429         | Signal                 | 43.2              | 0.0              | I             | 38.3            | B   |                 |     |                  |                      |
| Prairie Lake Dr. to CR 427/Ronald Reagan Blvd.     | 40                | 1,531         | Signal                 | 73.2              | 24.6             | I             | 14.3            | F   | 25.9            | C   |                  |                      |
| CR 427/Ronald Reagan Blvd. to CR 427/Maitland Ave. | 40                | 2,587         | Signal                 | 84.6              | 16.8             | I             | 20.9            | D   | 20.9            | D   |                  |                      |
| CR 427/Maitland Ave. to Boston Ave.                | 40                | 1,690         | Signal                 | 56.4              | 11.4             | I             | 20.4            | D   |                 |     |                  |                      |
| Boston Ave. to Palm Springs Dr.                    | 40                | 950           | Signal                 | 52.8              | 25.2             | I             | 12.3            | F   | 16.5            | E   |                  |                      |
| Palm Springs Dr. to Mall Entrance                  | 40                | 634           | Signal                 | 58.2              | 40.2             | I             | 7.4             | F   |                 |     |                  |                      |
| Mall Entrance to Essex St.                         | 40                | 634           | Signal                 | 77.4              | 51.6             | I             | 5.6             | F   |                 |     |                  |                      |
| Essex St. to Renaissance Dr.                       | 40                | 686           | Signal                 | 75.6              | 42.0             | I             | 6.2             | F   |                 |     |                  |                      |
| Renaissance Dr. to Hattaway Dr.                    | 40                | 686           | Signal                 | 60.0              | 18.6             | I             | 7.8             | F   |                 |     |                  |                      |
| Hattaway Dr. to North Lake Blvd.                   | 40                | 686           | Signal                 | 85.2              | 46.8             | I             | 5.5             | F   | 6.4             | F   |                  |                      |
| <b>TOTAL</b>                                       |                   | <b>35,587</b> |                        | <b>1,303.2</b>    | <b>415.2</b>     |               |                 |     |                 |     | <b>18.6</b>      | <b>0.245 gal/veh</b> |